REMEDIATION/PROGRESS MONITORING (R/PM) COVER SHEET AND REPORT FORMAT

State Form **57327 (3-24)**
IC 13-25-4 and 13-25-5
Indiana Department of Environmental Management
Office of Land Quality
State Cleanup and Voluntary Remediation Programs

INDIANA DEPARTMENT OF
ENVIRONMENTAL MANAGEMENT
Attention: Remediation Services Branch
Office of Land Quality
100 N. Senate Ave., IGCN 1101
Indianapolis, IN 46204-2251
or enroll in IDEM's e-submission portal

INSTRUCTIONS:

1. *The Remediation/Progress Monitoring Cover Sheet and Report Format (R/PM) form should be used to report on the sampling events over the preceding monitoring/remediation period.*
2. *This form is intended to assist with the organization of the R/PM for either the State Cleanup or Voluntary Remediation Program.*
3. *The R/PM Cover Sheet should be attached as a cover to your R/PM report.*
4. *Depending on the nature of the project, some of the following sections in the R/PM Report Format or appendices may not be applicable. If this is the case, do not leave the section blank, omit, or reorder the appendices. Instead, enter "Not Applicable" or other explanation to indicate that the section does not apply or that information is not available, and why. * Although the Risk-based Closure Guide (R2) published levels are referenced throughout, some VRP projects rely on previously agreed upon guidance through their Voluntary Remediation Agreement (VRA).*

R/PM COVER SHEET

A. FACILITY INFORMATION

Report Period Beginning: 10/1	Report Period Ending: 12/31	**Quarter/Sampling event** 4 **of** 2023
Facility Name: Former Whirlpool Facility		Program Project Number: VRP #6180802
Street Address *(number and street)*: 229 Factory Street		
City: La Porte	County: La Porte	ZIP Code: 46350
Assigned IDEM Project Manager: Chelsea Day	**AGENCY INTEREST ID NUMBER:** 37197	

B. CURRENT SITE PRIORITY INFORMATION

Was free product present?	☐ YES	■ NO
Are vapors in any occupied structures impacted with release related chemicals (RRCs) at levels greater than R2 published levels?	☐ YES	■ NO
Are utility corridors impacted with RRCs at levels greater than R2 published levels or likely to be acting as conduits for contaminant migration?	☐ YES	■ NO
Are any municipal supply water wells and/or private water wells impacted, or likely to be impacted, with RRCs at levels greater than R2 published levels?	☐ YES	■ NO

C. SUMMARIZE CHANGES IN SITE CONDITIONS SINCE LAST MONITORING EVENT

Reductions in source area groundwater RRC concentrations have been observed, however, TCE remains in shallow groundwater at concentrations that contribute to VI risk.

D. SAMPLING INFORMATION

Monitoring Purpose:	■ Remediation Progress ☐ Mitigation Monitoring	■ Plume Behavior ☐ Monitored Natural Attenuation	☐ Closure ☐ Other
RRC categories: *Check all that apply*	☐ Petroleum ☐ Metals	■ Chlorinated Solvents (cVOCs) ☐ Volatile Organic Compounds	☐ SVOCs/PAHs ☐ Other
Media Impacted with RRCs at levels greater than R2 published levels: *Check all that apply*	☐ Soil ■ Groundwater	☐ Indoor Air ■ Sub-slab ☐ Conduit Vapor	■ Soil Gas ☐ Drinking Water ☐ Other
Number of monitoring wells sampled this event: 32		Total number of monitoring wells: 32	

E. REMEDIATION STRATEGY		
Approved Remediation Work Plan (RWP)? ☐ Yes ■ No		RWP VFC Document #(s): Pending Approval
Active remediation system start-up date *(month, day, year)*: 5/3/2023		Anticipated System Stop Date: 5/3/2025
Percent of time system was operational since last event: 99.9 %		Number of years expected to run 2
■ Vapor Extraction	■ Air Sparging	☐ Multi-phase/Dual-phase Extraction (MPE/DPE)
☐ Pump and Treat	☐ Excavation	☐ Groundwater Injections
■ Sub-slab Depressurization System (SSDS)		☐ Monitored Natural Attenuation (MNA)
☐ Exposure Control (i.e. ERC)	☐ Plume Stability	☐ Other

F. RESPONSIBLE PARTY or APPLICANT INFORMATION		
Name: Factory Street Properties, LLC		
Street Address *(number and street)*: 1530 West Fullerton Avenue, Suite 1A		
City: Chicago	State: IL	ZIP Code: 60614
Contact Person: Brian Lipner	Telephone Number: 269-405-3955	
E-mail Address: lipner63@gmail.com		
Other parties copied (attorneys, property owner, etc.): Doug Louks (dlouks@dsvlaw.com), Curtis Condict (ccondict@hanover.com)		

G. REPORT PREPARER INFORMATION		
Company Name: Acuity Environmental Solutions LLC		
Street Address *(number and street)*: 7965 E. 106th Street, Suite 128		
City: Fishers	State: IN	ZIP Code: 46038
Contact Person: Lauren Nielsen	Telephone Number: 206-914-8802	
E-mail Address: lnielsen@acuityes.com		

R/PM REPORT FORMAT

Please attach the R/PM cover sheet to your R/PM report. The R/PM report should follow the outline and section headings 1.0-4.0 provided below.

1.0 INTRODUCTION

Executive Summary: Brief discussion and summary of the project, release history, monitoring conducted to date, etc.

1.1 Project Background

1.1.1 Facility Name and Information

*- **Figure 1**: Township, range, and section on a 7.5-minute series United States Geological Survey (USGS) topographic map*

*- **Figure 2**: Appropriately scaled regional map of the site showing site buildings, locations of former USTs/ASTs, underground utilities, etc.*

1.1.2 Current Owner Information

1.1.3 Historical Ownership, Facility Type, Past and Current Operations

1.1.4 Initial Discovery, Spill History, Known or Suspected Release Area(s)

1.2 Summary of Monitoring Event (if applicable) - summarize the monitoring event, provide information on any investigation derived waste (IDW), include a summary of recent changes that may affect current or future field work, i.e. off-site construction, access issues, changes in property ownership, etc.

1.3 Summary of Remediation Activities (if applicable) - summarize remediation system performance, monitoring data, treatment system discharge sampling requirements, and system influent and effluent analytical results. Any system failures and/or modifications made to the remediation system during the reporting period should be included.

QUARTERLY MONITORING REPORT
4TH QUARTER 2023

Former Whirlpool Facility
229 Factory Street,
La Porte, Indiana
AcuityES Project #1042-1005

Submitted to:

IDEM Voluntary Remediation Program
Attn: Chelsea Day
VRP #6180802

26 June 2024



dig·deeper

ACUITY ENVIRONMENTAL SOLUTIONS

7965 East 106th St, Ste. 128 | Fishers, IN 46038 | ph: 317 / 570 4919

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EXECUTIVE SUMMARY

The Site, known as the Former Whirlpool Facility, is located at 229 Factory Street in Laporte, Indiana. Chlorinated volatile organic compound contamination at the Site was encountered in 2007 during a limited soil and groundwater sampling event, which was conducted along the building periphery on behalf of a prospective tenant. Additional investigation revealed that besides contamination that had migrated onto the Site from the neighboring property, a separate source of distinct release-related chemicals had originated on the Site premises.

Efforts to fully characterize the nature and extent of contamination and identify complete exposure pathways began in 2017 through the collection of soil, groundwater, soil gas, and indoor air samples. Data suggests that historical plant operations likely involved the use of the ubiquitous industrial cleaning agent trichloroethene (TCE) during the period before the handling and disposal of TCE became subject to regulations. Information about the incidence and distribution of contamination that was gathered during Site characterization supports the concept that TCE was historically discharged to the subsurface primarily in an isolated area near the central portion of the factory.

Operation of the onsite soil vapor extraction (SVE) system began in April 2018 as an interim remedial measure to reduce release related compound (RRC) concentrations in the vadose zone and restore acceptable indoor air quality at the facility. Confirmation indoor air sampling is conducted annually during the winter heating season, which represents the vapor intrusion (VI) worst-case scenario considering that cooling during the summer is achieved by fans and open ventilation.

VI investigation proceeded in 2019 in the residential area to the east-southeast of the facility, which included attempts to sample residential indoor air and assessments focused on identifying potential mechanisms of contaminant transport through preferential pathways, such as conduits or corridors, for dissolved or vapor-phase migration. Analysis of preferential pathways resulted in the determination that they were not consequential, thus the predominant mode of VI was via partitioning from the groundwater plume extending downgradient from the primary source area. Upon authorization from residents, vapor mitigation systems (VMSs) were subsequently installed at two of the residences where the VI pathway was found to be complete. Operability and maintenance inspections of the VMSs are conducted in accordance with the sub-slab depressurization system operation, maintenance, and monitoring plans, and periodic VI sampling at the homes with VMSs is conducted according to the appropriate schedules described in Section 4.2.3.2 of the Risk-based Closure Guide (R2).

Site characterization activities continued through 2021 to develop the prevailing conceptual site model (CSM) that solvent entered the vadose zone soil and migrated vertically downward through transmissive sandy soils while partially partitioning to the adsorbed phase at units of sufficient organic carbon content as well as likely forming micro-scale dispersed globules and ganglia. Having been continuously shielded from precipitation, the non-aqueous phase release-related chemicals reached a terminus below the water table. The remaining mass in the vicinity of the capillary fringe became a sustained source for the resultant dissolved-phase plume, which consists mostly of TCE. The plume remained near the groundwater surface, migrated along the hydraulic gradient, and became a secondary source for vapors in the residential area.

In lieu of performing repeated sub-slab soil gas (SGss) sampling at every potentially affected residence in the neighborhood, eight deep exterior soil gas (SGe) ports were installed as representative near-source

and sentinel locations to evaluate VI potential at the homes in their vicinities. The SGe ports are sampled on a quarterly basis during quarterly groundwater monitoring events.

The need for a long-term VI remedy and the suitable approach of in-situ air sparging were elucidated in the 17 May 2022 *Revised Remediation Work Plan* (RWP) and in the ensuing 20 January 2023 *AS/SVE Pilot Test Summary Report* submitted by AcuityES. In a letter dated 15 March 2023, IDEM provided concurrence with and approval of the remedial strategy and the full-scale AS/SVE system was implemented and began full-time operation on 3 May 2023.

Analytical results and performance indicator data from baseline, two-week post start-up, and one-month post-startup monitoring events were presented in the *Remediation Implementation and Progress Report* dated 5 December 2023. Initial performance monitoring data indicated that the AS was enhancing volatilization of RRCs from the dissolved phase to the vapor phase for subsequent capture and emission by the SVE system. Performance monitoring of groundwater and exterior soil gas began in June 2023, with subsequent quarterly monitoring events having been conducted in August 2023[1] and November 2023.

November 2023 analytical results and performance indicator data indicate that the AS/SVE system continues to reduce RRC concentrations in the contributing dissolved phase plume beneath the central portion of the facility. Quarterly monitoring of soil gas and groundwater will proceed as outlined in the RWP dated 17 May 2022, and a discussion of analytical results and remediation progress with be presented in subsequent Quarterly Monitoring Reports (QMRs).

[1] Exterior soil gas samples were not collected from SG-1 through SG-8 during the August sampling event because an additional quarter of exterior soil gas data had been previously collected in March 2023.

1.0 INTRODUCTION

1.1 Project Background

Acuity Environmental Solutions (AcuityES) presents the Quarterly Monitoring Report for the former Whirlpool facility in La Porte, Indiana (Site). Work was conducted in accordance with the *Revised Remediation Work Plan* dated 17 May 2022. This report documents the performance of the full-time air sparge (AS)/soil vapor extraction (SVE) system operation and results with respect to its effect on the dissolved and vapor phase plumes.

1.1.1 Facility Name and Information

The Site is located at 229 Factory Street in La Porte, Indiana and is currently occupied by Protect Plus Air (PPA Industries). A map depicting regional topography is provided as **Figure 1**, and an aerial map of the Site building, features, and utilities is provided as **Figure 2**.

1.1.2 Current Owner Information

The facility is currently owned by Factory Street Properties, LLC and is managed by Brian Lipner. The current owner's contact information is provided below:

Factory Street Properties, LLC
Address: 1530 West Fullerton Avenue, Suite 1A, Chicago, Illinois 60614
Contact: Brian Lipner, Owner
Email: lipner63@gmail.com
Phone Number: 269-405-3955

1.1.3 Historical Ownership, Facility Type, Past and Current Operations

The Site is currently occupied by a furnace filter manufacturer (PPA Industries), which operates throughout most of the 242,000-square-foot industrial building. Areas of operation include office areas, employee break room, maintenance shop, receiving/materials warehouse, production area, and finished product/shipping warehouse. The production, shipping, and warehouse areas have high ceilings, large volumes without subdivision of interior space, and high air exchange rates.

Historical Site operations have included the following: consumer appliance parts manufacturing, painting, repair and distribution; manufacturing of various metal products; and wood product manufacturing. The Site is located in a primarily industrial area of La Porte. Notable properties surrounding the Site are described below and depicted on **Figure 3**:

Direction From Site	Address	Occupants	Operations[2]
North/Northwest	1 Berkel Drive	Former Berkel, Inc.	Machining, fabrication, belt polishing, painting, and nickel and chrome plating
East	239 Factory Street	Former Modine	Manufacturing of automobile radiators
West/Southwest	171 Factory Street	New York Blower Company	Manufacturing of industrial fans and blowers
South/Southeast	Various	-	Single Family Homes

[2] Detailed descriptions of surrounding properties and their operations are provided in Section 4.2 the *Revised RWP* dated 17 May 2022.

1.1.4 Initial Discovery, Spill History, Known or Suspected Release Area(s)

Chlorinated compound contamination at the Site was encountered in 2007 during a limited soil and groundwater sampling event, which was conducted along the building periphery on behalf of a prospective tenant. Without a previously documented or suspected release event to explain the findings, it was speculated that the detections were attributable to contamination emanating from the northeastern adjacent Packaging Logic (former Modine Manufacturing Company) facility. Upon further investigation, it was discovered that in addition to contamination that had migrated onto the Site from the neighboring property, a separate source of distinct release-related chemicals had originated on the Site premises. Information about the incidence and distribution of contamination that was gathered during Site characterization supports the concept that trichloroethene (TCE), or mixtures containing TCE, was historically discharged to the subsurface primarily in an isolated area near the central portion of the factory.

1.2 Summary of Monitoring Event

The scope for the monitoring event included gauging of static water levels and groundwater sampling at 32 monitoring well locations, exterior soil gas sampling at eight monitoring locations, sub-slab vapor sampling at three onsite monitoring locations, and routine indoor air sampling at two residences. Additionally, AcuityES performed operation and maintenance tasks associated with the Site AS/SVE system and inspected the residential vapor mitigation systems at 205 Planett Street and 211 Oberreich Street. Investigation derived waste (IDW) included groundwater generated by purging procedures conducted during low-flow sampling at the monitoring wells. IDW was containerized into 55-gallon steel drums with appropriate labels. All monitoring locations are depicted on **Figure 3**.

1.3 Summary of Remediation System Performance

1.3.1 Performance Indicators

The AS/SVE system layout is depicted on **Figure 3**. All system metrics, operation and maintenance (O&M) records, and system calculations are provided in **Appendix F**.

The SVE and AS systems operated 99.97% and 99.90% of the time, respectively, during the fourth quarter 2023 based on run-time data collected at the system's Human-Machine Interface (HMI).

Analog readings from the SVE system's differential pressure gauge indicate a flow rate of 491.4 standard cubic feet per minute (scfm). Utilizing the AS system's pressure gauge at the manifold and the compressor's pump curve published by the manufacturer, a flow rate of 66 cubic feet per minute (cfm) was calculated for the reporting period. Equal vacuum was observed at the open SVE extraction points SVE-1 through SVE-3 and SVE-5 through SVE-7, indicating that all the points are in good operating condition and are being equally influenced by the SVE blower. Extraction point SVE-4 is located outside of the area of influence for AS-1 and has been closed since the AS system startup to direct vapor capture in the vicinity of AS-1.

A photoionization detector (PID) was utilized to screen the relative mass concentration of VOCs amongst the operating SVE extraction points to characterize the distribution in vadose zone vapor in the treatment area. The greatest mass concentration was observed at SVE-3 and the lowest was observed at SVE-7. The readings were similar, indicating a somewhat uniform distribution of vapors in the treatment area. Relative SVE readings appear to reflect the observed collapsing of the contributing dissolved plume in the vicinity of AS-1. Accelerated volatilization near AS-1 was detected at SVE-1 in the initial weeks and months following the AS system startup. Now that the dissolved plume concentrations near AS-1 have declined significantly,

observed volatilization exhibited at the neighboring SVE-1 has declined. SVE-3 is located at the periphery of the AS zone of influence (ZOI), where groundwater concentrations remain relatively elevated and therefore relatively higher volatilization continues to be detected at SVE-3.

1.3.2 Contaminant Mass Removal

The volumetric flow (Q) of the SVE blower is quantified by means of a Dwyer differential pressure gauge, as documented in the operation and maintenance log in **Appendix F**, and the corresponding temperature of the airstream at the point of flow measurement. SVE operational time, which is logged with an elapsed time meter and expressed as a proportion of the reporting period, was multiplied by the standardized volumetric airflow rate to estimate total volume emitted. The laboratory analytical concentration results of the effluent air sample (C_{eff}, expressed in mass per volume at standard conditions) were multiplied by the volumetric discharge of the SVE blower to establish an estimate of emitted mass (in pounds) per constituent.

$$M(lb) = C_{eff}\left(\frac{\mu g}{m^3}\right) \times Q\left(\frac{m^3}{day}\right) \times Reporting\ Period\ (days) \times Runtime\ (\%) \times \frac{2.2}{10^9}\left(\frac{lb}{\mu g}\right)$$

During the fourth quarter 2023 reporting period, 147 lbs of TCE were removed from the subsurface and emitted via the SVE system. Comparatively negligible masses of other release related compounds (RRCs) were removed during the reporting period, as TCE is the primary RRC within the AS ZOI. Mass removal rates and cumulative mass removal will continue to be monitored and evaluated to ensure the remediation system remains effective.

1.3.3 System Maintenance Summary

The AS/SVE system operation and maintenance tasks primarily involved the inspection of system components and recording system metrics. The following AS/SVE system maintenance tasks were performed during the fourth quarter of 2023:

- SVE In-line filter was replaced
- SVE Intake filter was cleaned
- AS Intake filter was replaced
- AS motor vents and cooling ribs were cleaned

2.0 SAMPLING METHODOLGY

2.1 Hydrogeology

The observed depth to groundwater during the quarterly performance monitoring event ranged between 21 and 28 feet bgs. The groundwater elevation data are presented in **Table 1**. Shallow monitoring well readings from 13 November 2023 were utilized to generate the shallow groundwater elevation contours, which are depicted on **Figure 4a**. Corresponding deep monitoring well readings were used to generate the deep groundwater flow maps provided as **Figure 4b**. Groundwater flows to the east-southeast. The recent groundwater flow direction observations are consistent with historical observations.

2.2 Groundwater Sampling Methodology

2.2.1 Groundwater Network and Monitoring Objectives

Permanent monitoring wells have been installed across the Site to monitor the unconfined, continuous aquifer near the water table and at a stratum below the impacted zone. The locations of the monitoring wells are depicted on **Figure 3**.

There are 20 shallow wells (MW-1S, MW-2SR, MW-3, MW-4, MW-5S through MW-16S, MW-19S, MW-20S, OW-1S, and OW-2S) with total depths on the order of 30 feet below ground surface (bgs), each with 10-foot screens, to allow for sampling as close as possible to the water table. Also, there is one intermediate well, MW-7I, that is used to monitor the impacted water just below the depth represented by MW-7S.

There are 11 deep wells (MW-1D through MW-3D, MW-5D through MW-9D, MW-12D, OW-1D, and OW-2D) with total depths on the order of 55 feet bgs, each with 5-foot screens (except for MW-5D, which has a 10-foot screen). The set of deep monitoring wells generally monitor the layer of groundwater about 25-30 feet below the water table, which has remained largely unaffected by the overlying contamination.

All 32 monitoring wells are currently included in the performance monitoring program to establish Site-wide contaminant concentrations and geochemical seasonal trends to evaluate plume behavior.

2.2.2 Groundwater Sampling Procedures

AcuityES mobilized personnel and equipment to the Site during the week of 13 November 2023 to collect groundwater samples from the monitoring well network. Depth to water measurements were recorded prior to commencing sample collection. Other than at MW-1S, which was obstructed by facility materials on 13 November 2023, the caps from every monitoring well were first removed and the wells were allowed time to equilibrate.[3] The monitoring wells were gauged to the nearest 0.01-foot using water level meters that were decontaminated between each well location.

After gathering groundwater elevation readings for potentiometric surface interpretation, samples were collected from monitoring wells in reverse order of relative contamination. AcuityES personnel used the micro-purge sampling option (i.e., low-flow sampling) to minimize disturbance of the aquifer, thereby reducing volatilization of RRCs during sample collection and yielding consistently representative groundwater samples.

Groundwater was retrieved using bladder pumps with dedicated Teflon bladders and dedicated Teflon-lined polyethylene (TLPE) tubing. In each of the monitoring wells, the pump was slowly lowered to avoid surging or mixing of the well. Purging rates were adjusted to ensure that the stabilized water level in the monitoring

[3] The static water level at MW-1S was measured on 11/14/2023.

well varied by less than 0.3 feet. After achieving a purging rate for which the water level was stable, field parameters were monitored using a Rugged Reader tablet and software developed and supplied by In-Situ, Inc. for the purpose of low-flow sampling compilation and field evaluation.

In accordance with the IDEM's Technical Guidance Document dated 11 May 2021, *The Micro-Purge Sampling Option*, purging continued until selected field parameters were stabilized for at least three consecutive readings conducted at calculated time intervals. The following field parameters are normally used for assessment of stability: pH, temperature, specific conductivity, oxidation-reduction (redox) potential (ORP), dissolved oxygen (DO) and turbidity. The IDEM specifies that at least one of the last three parameters (i.e., redox, DO, or turbidity) must be used in the assessment. Stability of selected parameters was defined with the following minimum criteria:

- pH: ±0.1 (pH)
- Conductivity: ±3% (µS/cm)
- Temperature: ±3% (°C)
- DO: ±10% (mg/L)
- Turbidity: ±10% (NTUs)
- ORP: ±10 (mV)

Once the field parameters stabilized, the pump discharge tube was disconnected from the flow-through cell and samples were collected in appropriate laboratory-supplied containers. The samples were not field-filtered, and the low-flow sampling summary sheets are included as **Appendix A**.

Following sample collection at each location, the dedicated equipment (sample gloves, bladders, and tubing) was properly disposed, and reusable pieces of equipment (bladder pump and water level indicator) were cleaned in a non-phosphatic detergent solution and rinsed with distilled water. Upon collection, samples were placed on ice in coolers and submitted under standard chain of custody protocols to Pace Analytical Services located in Indianapolis, Indiana for analysis of a target analyte list of VOCs by USEPA Method 8260.

2.3 Soil Sampling Methodology

Not Applicable.

2.4 Vapor Sampling Methodology

2.4.1 Soil Gas Network and Monitoring Objectives

Permanent soil gas monitoring ports have been installed to a depth of eight feet along the centerline of the dissolved plume downgradient of the factory to monitor behavior of the vapor plume and to continue to gather data needed for evaluation of the vapor intrusion risk to downgradient residential structures. Soil gas port locations are depicted on **Figure 3**.

2.4.2 Soil Gas Sampling Procedures

Soil gas samples were collected from the eight soil gas ports on 13 November 2023. The samples were analyzed for a targeted list of chlorinated VOCs that were relevant to the objective of monitoring volatilization from the shallow groundwater TCE plume.

Soil vapor samples were collected using 1-liter laboratory-provided Summa canisters and 200 milliliter per minute (mL/min) flow regulators. Soil gas samples were collected by connecting the Summa canister to the

existing port tubing. Prior to connection to a soil gas sampling port, a negative pressure leak test was performed on each canister and fitting. The negative pressure leak test was conducted by applying a vacuum for a period of one minute. If more than one inch of mercury deviation was noted, the apparatus was investigated for loose fittings and retested. Summa canisters that did not pass the leak test were determined to be defective and were not used for sample collection. During sample collection, the canister valve was opened and allowed to fill and the initial vacuum readings on the canisters were noted. Upon reaching approximately one to three inches of mercury vacuum, the canister valve was closed, the regulators removed, and the canisters were labeled and packaged for delivery to Pace National in Mt Juliet, Tennessee for analysis. One duplicate sample was collected concurrently with the SG-1 primary sample into a 1-liter Summa canister. Field sampling forms are provided in **Appendix A**.

In addition to the deep exterior soil gas samples, on 13 and 14 November 2023, AcuityES collected confirmation samples from the factory building sub-slab points SSIA-07, SSIA-08, and SSIA-09. The intent of sampling at these locations is to verify the SVE system continues to provide effective control of vapors beneath the building foundation.

2.4.3 Residential Indoor Air Sampling Procedures

In accordance with the methodologies and procedures documented in the Quality Assurance Project Plan (QAPP) presented in the RWP dated 17 May 2022, indoor air confirmation sampling was conducted at 205 Planett Street and 211 Oberreich Street to ensure the efficacy of the vapor mitigation systems. Two indoor air samples were collected from each residence: one in the basement and one on the first floor. Indoor air confirmation samples were collected from 211 Oberreich Street and 205 Planett Street on 13-14 November 2023 and 15-16 November 2023, respectively. Indoor air sampling summary sheets are provided in **Appendix A**.

Prior to the collection of samples, inspections of the interior spaces were conducted. The objective of these inspections is to identify and inventory materials that could potentially contribute to indoor air conditions, apart from the intrusion of sub-slab vapors. The property tenants were interviewed regarding the types of activities conducted in the structures on a routine basis and the number and age of people that regularly occupy the space. Pertinent information was documented in the Indoor Air Building Survey Checklists completed for each residence, which are included in **Appendix C**. There were no activities or chemicals noted which would have contributed to indoor air conditions at 211 Oberreich Street.

The tenant at 205 Planett Street had told AcuityES personnel that the SSDS fan would occasionally make a loud sound, at which point, the tenant would turn the system off. AcuityES noted this on the indoor air survey and instructed the tenant to keep the vapor mitigation system running.

After completion of the checklist, the indoor air samples were set up, which were collected over a 24-hour time period into six-liter laboratory supplied Summa canisters equipped with flow regulators and a vacuum gauge. All air samples were shipped to Pace National, under appropriate chain of custody, for analysis of chlorinated VOCs by USEPA Method TO-15. The laboratory reports for 211 Oberreich Street and 205 Planett Street can be found in **Appendix D**.

2.4.4 Semi-Annual Residential Vapor Mitigation System O&M

AcuityES personnel inspected the VMSs at 205 Planett Street and 211 Oberreich Street. At the time of the inspection, all SSDS components at 211 Oberreich Street were determined to be in working order. At 205 Planett Street, all SSDS components appeared to be in working order, except for the system fan, which

was producing an above average noise. VMS inspection field forms are provided in **Appendix C**. Upon inspection of the fan, there appeared to be a coating of paper on the inside of the fan compartment, which may have been contributing to the noise. The fan was still under warranty at the time of the inspection and a replacement was ordered. AcuityES mobilized to 205 Planett Street on 20 November 2023 and replaced the SSDS fan.

3.0 ANALYTICAL RESULTS

3.1 Groundwater Analytical Results

Analytical results from the fourth quarter 2023 groundwater sampling event are summarized in **Table 2**, which includes a subset of analyzed VOCs selected based on historical relevance and whether constituents were detected. Results are presented with comparison to IDEM Groundwater Published Levels (GWPLs). Laboratory analytical reports are included in **Appendix D**. Parameters that were detected in a sample from at least one monitoring well during this sampling event included: 1,1,1-trichloroethane (1,1,1-TCA), 1,1-dichloroethane (1,1-DCA), 1,1-dichloroethene (1,1-DCE), carbon tetrachloride (CT or Carbon Tet), chloroform, tetrachloroethene (PCE), and trichloroethene (TCE). Shallow and deep groundwater analytical results are presented on **Figure 5a** and **Figure 5b**, respectively.

3.1.1 Trichloroethene (TCE)

During the fourth quarter 2024 groundwater sampling event, TCE was detected in samples from 16 monitoring well locations. The dissolved TCE mass primarily resides in the shallow portion of the aquifer. The highest concentration of TCE was detected in the sample from MW-7I, which is located in the immediately downgradient facility parking lot. The table below summarizes the fourth quarter 2023 monitoring event data compared to the baseline groundwater data for the source area expected to be affected by the AS system (OW-1S, OW-2S, and MW-12S) along with corresponding time series data for samples taken from locations representing the next nearest downgradient monitoring points, but which were expected to be outside the direct influence of AS-1 (MW-7S and MW-8S):

Monitoring Well ID	Approximate Distance (ft) from AS-1	TCE Concentration (µg/L)		Percent Decrease
		May 2023 Baseline	November 2023	
OW-1S	5	16,000	390	97.6%
MW-12S	30	3,660	163	95.5%
OW-2S	60	7,530	2,460	67.3%
MW-8S	200	888	1,120	*-26.1%*
MW-7S	265	3,840	4,590	*-19.5*%

Decreases in source area TCE concentrations were observed when compared to baseline concentrations collected prior to the AS start up. Decreases in the immediately downgradient wells are anticipated to be observed as more treatment time elapses and advection of treated groundwater in the subsurface continues. The inferred extent of the dissolved TCE plume is presented on **Figure 5a** for the shallow portion of the aquifer and **Figure 5b** for the deep portion of the aquifer. TCE detections were limited in both distribution and magnitude in the deep portion of the aquifer. No others RRCs were detected in the deep portion of the aquifer.

3.1.2 Other RRCs

TCE has been identified as the primary RRC for the Site, however, other VOCs including 1,1,1-TCA, 1,1-DCE, 1,1-DCA, carbon tet, and PCE have been routinely detected exceeding their respective GWPLs in samples from monitoring wells at the eastern and western boundaries of the Site. Detections of 1,1,1-TCA, 1,1-DCE, 1,1-DCA, carbon tet, and PCE are primarily attributable to releases at neighboring properties. During the fourth quarter 2023 groundwater monitoring event, PCE was detected in samples from four

monitoring well locations, all of which are located along or beyond the western edge of the Site boundary. The highest PCE concentration was detected at 257 µg/L. Carbon tetrachloride was detected at relatively low concentrations in the samples from two monitoring well locations along the western side and two monitoring well locations along the eastern side of the Site. 1,1,1-TCA and 1,1-DCA were detected in the samples from monitoring wells situated at the eastern edge of the Site building, adjacent to the former Modine Manufacturing facility. 1,1,1-TCA and 1,1-DCE were detected in the samples from wells positioned downgradient of the former Modine Manufacturing facility (cross-gradient of the former Whirlpool Facility). Analytical results and estimated extents for the aforementioned RRCs are presented on **Figure 5c**.

3.2 Groundwater Concentration Trends

Groundwater concentration trend charts were developed for monitoring well locations within, and immediately downgradient of, the AS ZOI to evaluate the effect of the AS operation on TCE concentrations near the source area. As illustrated in **Appendix E**, significant decreases in TCE concentrations have been observed within the AS ZOI (represented by OW-1S, OW-2S, and MW-12S) as a result of the AS operation, which commenced full-time operation in May 2023.

Limited observations can be made regarding the remediation progress at the monitoring well locations immediately downgradient of the AS ZOI, as more monitoring events are needed to better understand the relationship between seasonal changes in groundwater elevation and the detected concentrations of dissolved TCE in groundwater. Preliminary review of concentration trends of samples from the downgradient monitoring wells indicates that dissolved TCE concentrations have probably decreased overall since the start of the AS implementation, but insufficient data are available for statistical significance. Dissolved TCE concentrations are expected to decrease at these downgradient monitoring wells as source area groundwater concentrations continue to decline and advection of the groundwater continues downgradient.

3.3 Groundwater Geochemical Results

The following table summarizes a selected subset of geochemical parameters that were monitored during sample collection and insights relevant to the remediation efforts at the Site:

Geochemical/physical Parameter	Minimum/Maximum Values	Monitoring Well ID	Location Relative to AS ZOI
Temperature	11.95	MW-1D	Upgradient/ Underlying ZOI
	18.35	OW-1S	Within ZOI
RDO	0.25	MW-6D	Downgradient/ Underlying ZOI
	10.14	MW-12S	Within ZOI
ORP	-128.88	MW-12D	Underlying ZOI
	237.07	MW-8S	Immediately downgradient

Note: Temperature is presented in degrees Celsius, RDO is presented in milligrams per liter, and ORP is presented in millivolts.

Elevated RDO readings were observed within the AS ZOI due to the introduction of pressurized air to the aquifer. Elevated RDO and ORP readings indicate that aquifer conditions with the shallow portion of the impacted aquifer are not suitable for anaerobic reductive dechlorination, thereby preventing the production of higher motility daughter products, namely vinyl chloride. While ORP readings for wells within the AS ZOI (MW-12S, OW-1S, and OW-2S) were each on the order of 70 mV, suggesting that conditions within the AS ZOI are not conducive to anaerobic reductive dechlorination.

Additionally, increased groundwater temperatures, like those observed within the AS ZOI, correspond to an increase in water-vapor partitioning in the subsurface, indicating that RRCs will more readily transition from the dissolved phase to the vapor phase within the AS ZOI for subsequent capture by the SVE system.

Groundwater sampling logs displaying all geochemical data recorded during sample collection are presented in **Appendix A**.

3.4 Groundwater Quality Assurance/Quality Control

3.4.1 QA/QC Samples

Quality Assurance/Quality Control (QA/QC) samples included a duplicate sample collected from MW-7I (DUP-1) and OW-2S (DUP-2). One equipment blank was collected from each set of sampling equipment, which were identified as EB-1 through EB-3. One aqueous trip blank was submitted with the cooler and was identified as TB-1.

3.4.2 QA/QC Results

Results of the DUP-1 and DUP-2 blind duplicate samples were generally in good agreement with those of the original samples from MW-7I and OW-2S, respectively. The average relative percent difference between analyte concentrations detected in the original sample compared to those of the duplicate was 1.4% for DUP-1/MW-7I and 7.4% for DUP-2/OW-2S. Analysis of the equipment blanks and trip blank found no detections of the tested analytes. The complete laboratory analytical report including chain of custody documentation is included in **Appendix D**.

3.5 Soil Analytical Results

Not Applicable.

3.6 Vapor Analytical Results

Vapor was sampled as exterior soil gas within the residential area located to the southeast of the Site (SG-1 through SG-8), as sub-slab soil gas beneath the eastern portion of the Site building slab (SSIA-07 through SSIA-09), and as residential indoor at 205 Planett Street and 211 Oberreich Street (205P-BAS/IA and 211O-BAS/IA). Analytical results for all vapor sampling locations are presented on **Figure 7**. Laboratory analytical reports are included as **Appendix D**.

3.6.1 Exterior Soil Gas

Laboratory analytical results from eight exterior soil gas sampling locations are presented in **Table 4**. TCE was detected at a concentration greater than 10x the residential deep soil gas published level (RDSGPL) at one location, SG-1, which is located nearest to the AS ZOI. The TCE detection at SG-1 also exceeded the large commercial deep soil gas published level (LDCSGPL) by a factor of 3. TCE was not detected at any of the other seven exterior soil gas sampling locations. Exterior soil gas monitoring point SG-1 is located near the residence at 205 Planett Street. A sub-slab depressurization system has been operating at 205 Planett

Street since June of 2020 to mitigate the vapor intrusion risk at the residence. Indoor air is sampled at 205 Planett Street in accordance with the Schedule 2 guidelines described in Table 4-A of the IDEM Risk-Based Closure Guide (R2). Indoor air analytical results are discussed in **Section 3.6.3**.

3.6.2 Sub-Slab Soil Gas

Laboratory analytical results from three sub-slab soil gas sampling locations within eastern portion of the Site building are presented in **Table 4**. The primary building and each of its extensions/expansions exhibit a thick concrete foundation, high ceilings, and high air exchange rates which qualify the structures as "large commercial structures" according to section 3.3.4 of the IDEM R2, therefore, it is appropriate to compare the sub-slab soil gas concentrations in these areas to the LCDSGPL. The only area of the Site building that does not meet the definition of "large commercial" structure is the portion of the building containing offices, which would be considered a standard "commercial" structure and should be compared to the commercial deep soil gas published level (CDSGPL).

With the exception of TCE at SSIA-07, detections of RRCs at SSIA07 SSIA-08 and SSIA-09 did not exceed any published levels. TCE was detected at SSIA-07 at a concentration of 215 µg/m^3, which is approximately 14x less than the applicable LCDSGPL.

3.6.3 Residential Indoor Air

Indoor air analytical results for 205 Planett Street and 211 Oberreich Street revealed no detections of RRCs above the IDEM R2 Residential Indoor Air Published Levels (RIAPLs). Concentrations of RRCs were below laboratory reporting limits for basement and first-floor indoor air samples collected at 211 Oberreich Street. TCE was detected in the basement sample from 205 Planett Street and PCE was detected in the sample from the first floor. While there were detections of PCE and TCE in the indoor air samples taken at 205 Planett Street, neither were above applicable IDEM RIAPLs. Indoor air analytical results are presented in **Table 5**.

3.6.4 Vapor QA/QC Samples and Results

A blind duplicate sample was collected at exterior soil gas monitoring point SG-1 (DUP-02). The results of the DUP-02 blind duplicate sample were generally in agreement with those of the original sample from SG-1. The average relative percent difference between analyte concentrations detected in the original sample compared to those of the duplicate was 40.3%, with the same constituents having been detected in both the duplicate and original samples. The complete laboratory analytical report including chain of custody documentation is included in **Appendix D**.

4.0 CONCLUSIONS

AcuityES has conducted the fourth quarter 2023 performance monitoring event at the Former Whirlpool Facility in accordance with the regimen outlined in the RWP dated 17 May 2022. AcuityES will continue to monitor groundwater and exterior soil gas on a quarterly basis in accordance with the RWP and residential indoor air in accordance with IDEM R2 guidelines.

4.1 Recommendation for AS System Expansion

Preliminary groundwater analytical data supports the addition of a second air-sparge point to the southeast of AS-1, within the facility maintenance area, to accelerate dissolved phase plume contraction, thus reducing VI risk at the downgradient neighborhood. Data collected during subsequent monitoring events will be used to inform the AS system expansion design.

TABLES

Table 1
Groundwater Elevation Data
Former Whirlpool Facility
VRP #6180802

Monitoring Well ID	Date	Top of Casing Elevation	Depth to Groundwater	Groundwater Elevation	Monitoring Well Depth	Screened Interval
MW-1S	1/1/2008	813.37	22.64	790.73	32	22 - 32
MW-1S	3/1/2018	813.37	22.64	790.73	32	22 - 32
MW-1S	6/5/2023	813.37	-	-	32	22 - 32
MW-1S	8/21/2023	813.37	-	-	32	22 - 32
MW-1S	**11/13/2023**	**813.37**	**27.65**	**785.72**	**32**	**22 - 32**
MW-1D	7/1/2020	812.61	22.06	790.55	58	53 - 58
MW-1D	1/1/2021	812.61	25.43	787.18	58	53 - 58
MW-1D	2/1/2021	812.61	25.73	786.88	58	53 - 58
MW-1D	6/5/2023	812.61	25.74	786.87	58	53 - 58
MW-1D	8/21/2023	812.61	26.14	786.47	58	53 - 58
MW-1D	**11/13/2023**	**812.61**	**26.85**	**785.76**	**58**	**53 - 58**
MW-2D	7/1/2020	812.78	21.87	790.91	55	50 - 55
MW-2D	1/1/2021	812.78	25.22	787.56	55	50 - 55
MW-2D	2/1/2021	812.78	25.52	787.26	55	50 - 55
MW-2D	6/5/2023	812.78	25.42	787.36	55	50 - 55
MW-2D	8/21/2023	812.78	25.82	786.96	55	50 - 55
MW-2D	**11/13/2023**	**812.78**	**26.56**	**786.22**	**55**	**50 - 55**
MW-2SR	1/1/2008	812.30	23.45	788.85	30	20 - 30
MW-2SR	3/1/2018	812.30	23.13	789.17	30	20 - 30
MW-2SR	7/1/2020	812.30	21.88	790.42	30	20 - 30
MW-2SR	1/1/2021	812.30	25.19	787.11	30	20 - 30
MW-2SR	2/1/2021	812.30	25.49	786.81	30	20 - 30
MW-2SR	6/5/2023	812.30	25.38	786.92	30	20 - 30
MW-2SR	8/21/2023	812.30	25.78	786.52	30	20 - 30
MW-2SR	**11/13/2023**	**812.30**	**26.51**	**785.79**	**30**	**20 - 30**
MW-3	1/1/2008	811.25	24.21	787.04	30	20 - 30
MW-3	3/1/2018	811.25	21.36	789.89	30	20 - 30
MW-3	7/1/2020	811.25	21.56	789.69	30	20 - 30
MW-3	1/1/2021	811.25	24.83	786.42	30	20 - 30
MW-3	6/5/2023	811.25	25.09	786.16	30	20 - 30
MW-3	8/21/2023	811.25	25.44	785.81	30	20 - 30
MW-3	**11/13/2023**	**811.25**	**26.19**	**785.06**	**30**	**20 - 30**
MW-3D	7/1/2020	811.12	21.42	789.70	55	50 - 55
MW-3D	1/1/2021	811.12	24.72	786.40	55	50 - 55
MW-3D	6/5/2023	811.12	24.98	786.14	55	50 - 55
MW-3D	8/21/2023	811.12	25.34	785.78	55	50 - 55
MW-3D	**11/13/2023**	**811.12**	**26.09**	**785.03**	**55**	**50 - 55**
MW-4	7/1/2020	812.32	22.53	789.79	33	23 - 33
MW-4	1/1/2021	812.32	25.78	786.54	33	23 - 33
MW-4	6/5/2023	812.32	25.99	786.33	33	23 - 33
MW-4	8/21/2023	812.32	26.34	785.98	33	23 - 33
MW-4	**11/13/2023**	**812.32**	**27.09**	**785.23**	**33**	**23 - 33**
MW-5D	7/1/2020	808.90	19.63	789.27	54	44 - 54
MW-5D	1/1/2021	808.90	22.89	786.01	54	44 - 54
MW-5D	6/5/2023	808.90	23.14	785.76	54	44 - 54
MW-5D	8/21/2023	808.90	23.50	785.40	54	44 - 54
MW-5D	**11/13/2023**	**808.90**	**24.25**	**784.65**	**54**	**44 - 54**

Measurements are listed in feet
Elevations are above mean sea level

Table 1
Groundwater Elevation Data
Former Whirlpool Facility
VRP #6180802

Monitoring Well ID	Date	Top of Casing Elevation	Depth to Groundwater	Groundwater Elevation	Monitoring Well Depth	Screened Interval
MW-5S	1/1/2008	808.87	24.10	784.77	30	20 - 30
MW-5S	3/1/2018	808.87	22.29	786.58	30	20 - 30
MW-5S	7/1/2020	808.87	19.60	789.27	30	20 - 30
MW-5S	1/1/2021	808.87	22.88	785.99	30	20 - 30
MW-5S	6/5/2023	808.87	23.12	785.75	30	20 - 30
MW-5S	8/21/2023	808.87	23.46	785.41	30	20 - 30
MW-5S	**11/13/2023**	**808.87**	**24.22**	**784.65**	**30**	**20 - 30**
MW-6D	7/1/2020	809.74	19.97	789.77	55	50 - 55
MW-6D	6/5/2023	809.74	23.60	786.14	55	50 - 55
MW-6D	8/21/2023	809.74	23.95	785.79	55	50 - 55
MW-6D	**11/13/2023**	**809.74**	**24.71**	**785.03**	**55**	**50 - 55**
MW-6S	7/1/2020	809.76	19.92	789.84	30	20 - 30
MW-6S	6/5/2023	809.76	23.57	786.19	30	20 - 30
MW-6S	8/21/2023	809.76	23.93	785.83	30	20 - 30
MW-6S	**11/13/2023**	**809.76**	**24.67**	**785.09**	**30**	**20 - 30**
MW-7D	7/1/2020	811.58	21.64	789.94	55	50 - 55
MW-7D	1/1/2021	811.58	24.97	786.61	55	50 - 55
MW-7D	6/5/2023	811.58	25.37	786.21	55	50 - 55
MW-7D	8/21/2023	811.58	25.63	785.95	55	50 - 55
MW-7D	**11/13/2023**	**811.58**	**26.38**	**785.20**	**55**	**50 - 55**
MW-7I	7/1/2020	811.80	21.88	789.92	43	33 - 43
MW-7I	1/1/2021	811.80	25.18	786.62	43	33 - 43
MW-7I	6/5/2023	811.80	25.49	786.31	43	33 - 43
MW-7I	8/21/2023	811.80	25.82	785.98	43	33 - 43
MW-7I	**11/13/2023**	**811.80**	**26.56**	**785.24**	**43**	**33 - 43**
MW-7S	7/1/2020	811.61	21.69	789.92	30	20 - 30
MW-7S	1/1/2021	811.61	25.01	786.60	30	20 - 30
MW-7S	6/5/2023	811.61	25.28	786.33	30	20 - 30
MW-7S	8/21/2023	811.61	25.66	785.95	30	20 - 30
MW-7S	**11/13/2023**	**811.61**	**26.38**	**785.23**	**30**	**20 - 30**
MW-8D	7/1/2020	810.98	20.97	790.01	55	50 - 55
MW-8D	1/1/2021	810.98	24.28	786.70	55	50 - 55
MW-8D	6/5/2023	810.98	24.54	786.44	55	50 - 55
MW-8D	8/21/2023	810.98	24.91	786.07	55	50 - 55
MW-8D	**11/13/2023**	**810.98**	**25.63**	**785.35**	**55**	**50 - 55**
MW-8S	7/1/2020	811.02	20.98	790.04	30	20 - 30
MW-8S	1/1/2021	811.02	24.31	786.71	30	20 - 30
MW-8S	6/5/2023	811.02	24.56	786.46	30	20 - 30
MW-8S	8/21/2023	811.02	24.91	786.11	30	20 - 30
MW-8S	**11/13/2023**	**811.02**	**25.65**	**785.37**	**30**	**20 - 30**
MW-9D	7/1/2020	810.72	20.44	790.28	55	50 - 55
MW-9D	1/1/2021	810.72	23.76	786.96	55	50 - 55
MW-9D	6/5/2023	810.72	23.95	786.77	55	50 - 55
MW-9D	8/21/2023	810.72	24.33	786.39	55	50 - 55
MW-9D	**11/13/2023**	**810.72**	**25.08**	**785.64**	**55**	**50 - 55**
MW-9S	7/1/2020	810.59	20.33	790.26	30	20 - 30
MW-9S	1/1/2021	810.59	23.63	786.96	30	20 - 30
MW-9S	6/5/2023	810.59	23.81	786.78	30	20 - 30
MW-9S	8/21/2023	810.59	24.19	786.40	30	20 - 30
MW-9S	**11/13/2023**	**810.59**	**24.93**	**785.66**	**30**	**20 - 30**

Measurements are listed in feet
Elevations are above mean sea level

Table 1
Groundwater Elevation Data
Former Whirlpool Facility
VRP #6180802

Monitoring Well ID	Date	Top of Casing Elevation	Depth to Groundwater	Groundwater Elevation	Monitoring Well Depth	Screened Interval
MW-10S	7/1/2020	813.47	22.77	790.70	30	20 - 30
MW-10S	1/1/2021	813.47	26.13	787.34	30	20 - 30
MW-10S	6/5/2023	813.47	26.36	787.11	30	20 - 30
MW-10S	8/21/2023	813.47	26.75	786.72	30	20 - 30
MW-10S	**11/13/2023**	**813.47**	**27.50**	**785.97**	**30**	**20 - 30**
MW-11S	7/1/2020	813.11	22.36	790.75	30	20 - 30
MW-11S	1/1/2021	813.11	25.77	787.34	30	20 - 30
MW-11S	2/1/2021	813.11	26.16	786.95	30	20 - 30
MW-11S	6/5/2023	813.11	26.03	787.08	30	20 - 30
MW-11S	8/21/2023	813.11	26.45	786.66	30	20 - 30
MW-11S	**11/13/2023**	**813.11**	**27.16**	**785.95**	**30**	**20 - 30**
MW-12D	7/1/2020	813.42	23.14	790.28	55	50 - 55
MW-12D	1/1/2021	813.42	26.46	786.96	55	50 - 55
MW-12D	6/5/2023	813.42	26.75	786.67	55	50 - 55
MW-12D	8/21/2023	813.42	27.13	786.29	55	50 - 55
MW-12D	**11/13/2023**	**813.42**	**27.87**	**785.55**	**55**	**50 - 55**
MW-12S	7/1/2020	813.11	22.81	790.30	30	20 - 30
MW-12S	1/1/2021	813.11	26.18	786.93	30	20 - 30
MW-12S	2/1/2021	813.11	26.48	786.63	30	20 - 30
MW-12S	6/5/2023	813.11	26.42	786.69	30	20 - 30
MW-12S	8/21/2023	813.11	26.84	786.27	30	20 - 30
MW-12S	**11/13/2023**	**813.11**	**27.58**	**785.53**	**30**	**20 - 30**
MW-13S	1/1/2021	808.05	22.39	785.66	30	20 - 30
MW-13S	6/5/2023	808.05	22.70	785.35	30	20 - 30
MW-13S	8/21/2023	808.05	23.00	785.05	30	20 - 30
MW-13S	**11/13/2023**	**808.05**	**23.73**	**784.32**	**30**	**20 - 30**
MW-14S	1/1/2021	805.73	19.80	785.93	30	20 - 30
MW-14S	6/5/2023	805.73	20.11	785.62	30	20 - 30
MW-14S	8/21/2023	805.73	20.43	785.30	30	20 - 30
MW-14S	**11/13/2023**	**805.73**	**21.18**	**784.55**	**30**	**20 - 30**
MW-15S	1/1/2021	811.00	23.92	787.08	30	20 - 30
MW-15S	6/5/2023	811.00	24.08	786.92	30	20 - 30
MW-15S	8/21/2023	811.00	24.45	786.55	30	20 - 30
MW-15S	**11/13/2023**	**811.00**	**25.20**	**785.80**	**30**	**20 - 30**
MW-16S	2/1/2021	813.36	26.42	786.94	30	20 - 30
MW-16S	6/5/2023	813.36	26.37	786.99	30	20 - 30
MW-16S	8/21/2023	813.36	26.75	786.61	30	20 - 30
MW-16S	**11/13/2023**	**813.36**	**27.48**	**785.88**	**30**	**20 - 30**
MW-19S	8/1/2007	810.51	21.50	789.01	28	18 - 28
MW-19S	1/1/2008	810.51	23.00	787.51	28	18 - 28
MW-19S	3/1/2018	810.51	19.37	791.14	28	18 - 28
MW-19S	1/1/2021	810.51	23.79	786.72	28	18 - 28
MW-19S	6/5/2023	810.51	24.13	786.38	28	18 - 28
MW-19S	8/21/2023	810.51	24.46	786.05	28	18 - 28
MW-19S	**11/13/2023**	**810.51**	**25.21**	**785.30**	**28**	**18 - 28**
MW-20S	1/1/2021	809.77	22.90	786.87	28	18 - 28
MW-20S	2/1/2021	809.77	23.23	786.54	28	18 - 28
MW-20S	6/5/2023	809.77	23.26	786.51	28	18 - 28
MW-20S	8/21/2023	809.77	23.61	786.16	28	18 - 28
MW-20S	**11/13/2023**	**809.77**	**24.39**	**785.38**	**28**	**18 - 28**

Measurements are listed in feet
Elevations are above mean sea level

Table 1
Groundwater Elevation Data
Former Whirlpool Facility
VRP #6180802

Monitoring Well ID	Date	Top of Casing Elevation	Depth to Groundwater	Groundwater Elevation	Monitoring Well Depth	Screened Interval
OW-1D	6/5/2023	813.12	26.66	786.46	55	50 - 55
OW-1D	8/21/2023	813.12	26.82	786.30	55	50 - 55
OW-1D	**11/13/2023**	**813.12**	**27.57**	**785.55**	**55**	**50 - 55**
OW-1S	6/5/2023	813.33	26.41	786.92	30	20 - 30
OW-1S	8/21/2023	813.33	27.04	786.29	30	20 - 30
OW-1S	**11/13/2023**	**813.33**	**27.79**	**785.54**	**30**	**20 - 30**
OW-2D	6/5/2023	812.84	26.63	786.21	55	50 - 55
OW-2D	8/21/2023	812.84	26.98	785.86	55	50 - 55
OW-2D	**11/13/2023**	**812.84**	**27.70**	**785.14**	**55**	**50 - 55**
OW-2S	6/5/2023	812.75	26.63	786.12	30	20 - 30
OW-2S	8/21/2023	812.75	27.05	785.70	30	20 - 30
OW-2S	**11/13/2023**	**812.75**	**27.78**	**784.97**	**30**	**20 - 30**

Measurements are listed in feet
Elevations are above mean sea level

Table 2
Groundwater Monitoring Analytical Results
Former Whirlpool Facility
VRP #6180802

	Parameter	1,1,1-TCA	1,1,2-TCA	1,1-DCA	1,1-DCE	Carbon Tet	Chloroform	cis-1,2-DCE	Naphthalene	PCE	TCE
	GWPL	**200**	**5**	**30**	**7**	**5**	**80**	**70**	**1**	**5**	**5**
Sample ID:	Date:										
MW-1	11/15/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**133**
MW-2SR	7/8/2020	< 5.0	**19.2**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.7	**9.9**	**266**
DUP-1 (MW-2SR)	7/8/2020	< 5.0	**19.1**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.7	**9.5**	**251**
MW-2SR	6/7/2023	< 5.0	**18.0**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**90.2**
MW-2SR	8/23/2023	< 5.0	**9.7**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**105**
MW-2SR	11/15/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**5.7**	**115**
MW-3	7/8/2020	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.7	< 5.0	**203**
MW-3	6/7/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**223**
MW-3	8/23/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**189**
MW-3S	11/15/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**228**
MW-4	7/8/2020	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**2.0**	< 5.0	< 5.0
MW-4	6/5/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MW-4	8/22/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MW-4	11/14/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MW-5S	7/6/2020	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.7	< 5.0	**903**
MW-5S	6/7/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**606**
MW-5S	8/24/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**581**
MW-5S	11/16/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**723**
MW-6S	7/7/2020	5.6	< 5.0	< 5.0	< 5.0	< 5.0	10.5	< 5.0	< 1.7	< 5.0	< 5.0
MW-6S	6/6/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	12.0	< 5.0	< 5.0	< 5.0	< 5.0
MW-6S	8/22/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	10.8	< 5.0	< 5.0	< 5.0	< 5.0
MW-6S	11/14/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	11.9	< 5.0	< 5.0	< 5.0	< 5.0
MW-7S	7/8/2020	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.7	< 5.0	**4,700**
MW-7S	5/1/2023	NA	NA	NA	NA	NA	NA	< 5.0	NA	< 5.0	**3,840**
MW-7S	6/7/2023	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	**4,100**
MW-7S	8/24/2023	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	**3,070**
MW-7S	11/16/2023	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	**4,590**
MW-8S	7/7/2020	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.7	< 5.0	**1,740**
MW-8S	5/1/2023	NA	NA	NA	NA	NA	NA	< 5.0	NA	< 5.0	**888**
MW-8S	6/7/2023	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	**1,020**
MW-8S	8/24/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**1,080**
MW-8S	11/16/2023	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	**1,120**
MW-9S	7/8/2020	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.7	**49.9**	< 5.0
MW-9S	6/6/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**106**	< 5.0
MW-9S	8/23/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**83.4**	< 5.0
MW-9S	11/15/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**97.2**	< 5.0
MW-10S	7/7/2020	< 5.0	< 5.0	< 5.0	< 5.0	**9.2**	< 5.0	< 5.0	< 1.7	**20.4**	< 5.0
MW-10S	6/6/2023	< 5.0	< 5.0	< 5.0	< 5.0	**19.0**	< 5.0	< 5.0	< 5.0	**7.3**	< 5.0
MW-10S	8/23/2023	< 5.0	< 5.0	< 5.0	< 5.0	**14.8**	< 5.0	< 5.0	< 5.0	**7.1**	< 5.0
MW-10S	11/15/2023	< 5.0	< 5.0	< 5.0	< 5.0	**18.7**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MW-11S	7/7/2020	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.7	< 5.0	**15.7**
MW-11S	6/6/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**19.6**
MW-11S	8/23/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**16.3**
MW-11S	11/16/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**24.5**
MW-12S	7/9/2020	10.9	< 5.0	< 5.0	< 5.0	< 5.0	8.9	< 5.0	< 1.7	< 5.0	**5,810**
MW-12S	5/2/2023	NA	NA	NA	NA	NA	NA	< 5.0	NA	< 5.0	**3,660**
MW-12S	6/7/2023	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	**513**
MW-12S	8/24/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**208**
MW-12S	11/16/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**163**
MW-13S	1/20/2021	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.7	< 5.0	< 5.0
MW-13S	6/6/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MW-13S	8/23/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MW-13S	11/16/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MW-14S	1/21/2021	**273**	< 5.0	6.0	**15.5**	< 5.0	< 5.0	< 5.0	< 1.7	< 5.0	< 5.0
Dup-1 (MW-14S)	1/21/2021	**275**	< 5.0	6.2	**15.9**	< 5.0	< 5.0	< 5.0	< 1.7	< 5.0	< 5.0
MW-14S	6/6/2023	**262**	< 5.0	5.3	**14.7**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MW-14S	8/23/2023	**212**	< 5.0	5.2	**10.3**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MW-14S	11/15/2023	**233**	< 5.0	< 5.0	**13.2**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MW-15S	1/21/2021	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.7	**256**	< 5.0
MW-15S	6/6/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**227**	< 5.0
MW-15S	8/23/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**186**	< 5.0
MW-15S	11/15/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**226**	< 5.0
MW-16S	6/7/2023	< 5.0	< 5.0	< 5.0	< 5.0	**9.8**	< 5.0	< 5.0	< 5.0	**311**	**20.8**
MW-16S	8/23/2023	< 5.0	< 5.0	< 5.0	< 5.0	**7.9**	< 5.0	< 5.0	< 5.0	**274**	**16.2**
MW-16S	11/16/2023	< 5.0	< 5.0	< 5.0	< 5.0	**10.5**	< 5.0	< 5.0	< 5.0	**257**	**19.1**
MW-19S	1/20/2021	**381**	< 5.0	5.0	6.5	**41.4**	17.3	< 5.0	< 1.7	**5.4**	< 5.0
MW-19S	6/6/2023	**251**	< 5.0	7.3	< 5.0	**32.1**	9.9	< 5.0	< 5.0	< 5.0	< 5.0
MW-19S	8/23/2023	97.1	< 5.0	< 5.0	< 5.0	**8.9**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MW-19S	11/15/2023	**291**	< 5.0	< 5.0	< 5.0	**32.7**	7.8	< 5.0	< 5.0	< 5.0	< 5.0
MW-20S	1/20/2021	**1,630**	< 5.0	11.7	**19.0**	**61.4**	**83.4**	< 5.0	< 1.7	< 5.0	**95.9**
MW-20S	6/6/2023	**956**	< 5.0	**41.0**	**15.1**	**38.7**	14.2	6.1	< 5.0	< 5.0	**49.8**
MW-20S	8/23/2023	**1,110**	< 5.0	**34.2**	**9.2**	**30.5**	17.1	5.7	< 5.0	< 5.0	**38.4**
MW-20S	11/15/2023	**1,020**	< 25.0	**33.1**	< 25.0	**31.5**	< 25.0	< 25.0	< 25.0	< 25.0	**38.3**
OW-1S	5/2/2023	NA	NA	NA	NA	NA	NA	< 100	NA	< 100	**16,000**
OW-1S	6/7/2023	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	**2,160**
Dup-2 (OW-1S)	6/7/2023	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	**2,870**
OW-1S	8/24/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**830**
OW-1S	11/16/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**390**
OW-2S	5/2/2023	NA	NA	NA	NA	NA	NA	< 50.0	NA	< 50.0	**7,350**
OW-2S	6/7/2023	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	**5,840**
Dup-1 (OW-2S)	6/7/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**6,290**
OW-2S	8/24/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**3,470**
DUP-2 (OW-2S)	8/24/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**3,570**
OW-2S	11/16/2023	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	**2,650**
DUP-2 (OW-2S)	11/16/2023	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	**2,460**

Table 2
Groundwater Monitoring Analytical Results
Former Whirlpool Facility
VRP #6180802

	Parameter	1,1,1-TCA	1,1,2-TCA	1,1-DCA	1,1-DCE	Carbon Tet	Chloroform	cis-1,2-DCE	Naphthalene	PCE	TCE
	GWPL	**200**	**5**	**30**	**7**	**5**	**80**	**70**	**1**	**5**	**5**
Sample ID:	Date:										
MW-7I	7/9/2020	< 5.0	**5.1**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.7	< 5.0	**8,610**
DUP-2 (MW-7I)	7/9/2020	< 5.0	**5.2**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.7	< 5.0	**9,500**
MW-7I	6/7/2023	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	**16,500**
MW-7I	8/24/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5.8	< 5.0	< 5.0	**12,400**
DUP-1 (MW-7I)	8/24/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5.7	< 5.0	< 5.0	**12,100**
MW-7I	11/16/2023	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	**14,700**
DUP-1 (MW-7I)	11/16/2023	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	**14,500**
MW-1D	7/10/2020	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.7	< 5.0	< 5.0
MW-1D	6/6/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MW-1D	8/22/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MW-1D	11/14/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MW-2D	7/8/2020	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.7	< 5.0	< 5.0
MW-2D	6/6/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MW-2D	8/22/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MW-2D	11/14/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MW-3D	7/8/2020	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.7	< 5.0	< 5.0
MW-3D	6/5/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MW-3D	8/22/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MW-3D	11/14/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MW-5D	7/6/2020	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.7	< 5.0	< 5.0
MW-5D	6/6/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MW-5D	8/22/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MW-5D	11/14/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MW-6D	7/7/2020	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.7	< 5.0	< 5.0
MW-6D	6/6/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MW-6D	8/22/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MW-6D	11/14/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MW-7D	7/9/2020	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.7	< 5.0	**114**
MW-7D	6/6/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MW-7D	8/22/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MW-7D	11/14/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**6.1**
MW-8D	7/7/2020	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.7	< 5.0	< 5.0
MW-8D	6/6/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MW-8D	8/22/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MW-8D	11/14/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MW-9D	7/8/2020	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.7	< 5.0	< 5.0
MW-9D	6/6/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MW-9D	8/23/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MW-9D	11/15/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MW-12D	7/9/2020	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.7	< 5.0	**22.0**
MW-12D	6/6/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MW-12D	8/23/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MW-12D	11/15/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**6.8**
OW-1D	6/6/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
OW-1D	8/23/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
OW-1D	11/16/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
OW-2D	6/6/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
OW-2D	8/23/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
OW-2D	11/15/2023	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**64.6**

Results are listed in µg/L
IDEM's 2024 Risk-based Closure Guide (R2) Published Levels
GWPL: Groundwater Published Level
N/A: Not Applicable
NA: Not Analyzed
Only constituents detected in at least one sample are listed
1,1,1-TCA: 1,1,1-Trichloroethane
1,1,2-TCA: 1,1,2-Trichloroethane
1,1-DCA: 1,1-Dichloroethane
1,1-DCE: 1,1-Dichloroethene
Carbon Tet: Carbon Tetrachloride
cis-1,2-DCE: cis-1,2-Dichloroethene
PCE: Tetrachloroethene
TCE: Trichloroethene

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Table 4
Soil Gas Monitoring Analytical Results
Former Whirlpool Facility
VRP #6180802

	Parameter	cis-1,2-DCE	PCE	TCE	trans-1,2-DCE	VC
	RDSGPL	**1,000**	**1,000**	**70**	**1,000**	**60**
	CDSGPL	**6,000**	**6,000**	**300**	**6,000**	**900**
	LCDSGPL	**60,000**	**60,000**	**3,000**	**60,000**	**9,000**
Sample ID:	Date:					
SG-1	3/31/2023	< 0.793	**6.14**	**11,900**	< 0.793	< 0.511
SG-1	8/21/2023	< 0.793	**9.84**	**16,000**	< 0.793	< 0.511
DUP-01 (SG-1)	8/21/2023	< 0.793	**8.49**	**14,100**	< 0.793	< 0.511
SG-1	11/13/2023	< 0.793	**2.7**	**15,500**	< 0.793	< 0.511
DUP-02 (SG-1)	11/13/2023	< 0.793	**4.06**	**10,300**	< 0.793	< 0.511
SG-2	3/31/2023	< 0.793	**2.24**	**24.3**	< 0.793	< 0.511
SG-2	8/21/2023	< 0.793	**6.44**	< 1.07	< 0.793	< 0.511
SG-2	11/13/2023	< 0.793	**5.47**	< 1.07	< 0.793	< 0.511
SG-3	3/31/2023	< 0.793	**1,440**	**28.7**	< 0.793	< 0.511
SG-3	8/21/2023	< 0.793	**14.6**	**119**	< 0.793	< 0.511
SG-3	11/13/2023	< 0.793	**10.3**	< 1.07	< 0.793	< 0.511
SG-4	3/31/2023	< 0.793	**25.7**	< 1.07	< 0.793	< 0.511
SG-4	8/21/2023	< 0.793	**4.81**	< 1.07	< 0.793	< 0.511
SG-4	11/13/2023	< 0.793	**2.15**	< 1.07	< 0.793	< 0.511
SG-5	3/31/2023	< 0.793	**166**	< 1.07	< 0.793	< 0.511
SG-5	8/21/2023	< 0.793	**20.4**	< 1.07	< 0.793	< 0.511
SG-5	11/13/2023	< 0.793	**6.31**	< 1.07	< 0.793	< 0.511
SG-6	3/31/2023	< 0.793	**11.8**	< 1.07	< 0.793	< 0.511
SG-6	8/21/2023	< 0.793	**8.35**	< 1.07	< 0.793	< 0.511
SG-6	11/13/2023	< 0.793	**3.9**	< 1.07	< 0.793	< 0.511
SG-7	3/31/2023	< 0.793	**31.4**	< 1.07	< 0.793	< 0.511
SG-7	8/21/2023	< 0.793	**23.2**	< 1.07	< 0.793	< 0.511
SG-7	11/13/2023	< 0.793	**15.5**	< 1.07	< 0.793	< 0.511
SG-8	3/31/2023	< 0.793	**47.8**	< 1.07	< 0.793	< 0.511
SG-8	8/21/2023	< 0.793	**6.86**	< 1.07	< 0.793	< 0.511
SG-8	11/13/2023	< 0.793	**5.87**	< 1.07	< 0.793	< 0.511
SSIA-1	8/29/2019	< 1.7	**254,000**	**7,690**	< 1.7	< 0.55
SSIA-1	6/30/2020	< 46.9	**19,600**	**794**	< 46.9	< 15.1
SSIA-2	8/29/2019	< 1.6	**561**	**235**	< 1.6	< 0.50
SSIA-2	6/30/2020	< 1.5	**4,520**	**697**	< 1.5	< 0.49
SSIA-3	8/29/2019	< 1.6	**815**	**130,000**	< 1.6	< 0.50
SSIA-3	6/30/2020	< 375	**795**	**74,000**	< 375	< 121
SSIA-4	8/29/2019	< 1.6	**18.2**	**7,210**	< 1.6	< 0.50
SSIA-4	6/30/2020	< 23.6	**32.8**	**1,750**	< 23.6	< 7.6
SSIA-5	8/29/2019	< 1.5	**81.3**	**8,900**	< 1.5	< 0.47
SSIA-5	6/30/2020	**6.9**	**192**	**3,730**	< 1.6	< 0.50
SSIA-6	8/29/2019	< 1.6	**129**	**27,500**	< 1.6	< 0.50
SSIA-6	6/30/2020	< 1.5	**158**	**8,080**	< 1.5	< 0.49
SSIA-7	6/30/2020	< 1.6	**23.6**	**1,180**	< 1.6	< 0.50
SSIA-07	8/22/2023	< 0.793	**1.87**	**367**	< 0.793	< 0.511
SSIA-07	11/14/2023	< 0.793	**3.85**	**215**	**1.89**	< 0.511
SSIA-8	6/30/2020	< 1.8	**35.1**	**5.3**	< 1.8	< 0.57
SSIA-08	8/22/2023	**4.95**	< 1.36	**39**	< 0.793	< 0.511
SSIA-8	11/13/2023	< 0.793	< 1.36	**1.94**	< 0.793	< 0.511
SSIA-9	6/30/2020	< 1.6	**46.3**	**12.7**	< 1.6	< 0.53
SSIA-09	8/22/2023	< 0.793	**3.51**	**3.55**	< 0.793	< 0.511
SSIA-9	11/13/2023	< 0.793	**2.82**	**5.07**	< 0.793	< 0.511
224P-SG	9/5/2019	< 1.5	**30.2**	< 1.0	< 1.5	< 0.49
226P-SG	9/5/2019	< 1.4	**3.3**	**5.6**	< 1.4	< 0.44
228P-SG	9/5/2019	< 1.5	**1.7**	< 1.0	< 1.5	< 0.49
230P-SG	9/5/2019	< 1.5	**31.4**	**5.1**	< 1.5	< 0.49
201O-SG	9/5/2019	< 1.5	**10.5**	**1.7**	< 1.5	< 0.49
206O-SG	9/5/2019	< 1.5	**2.3**	< 1.0	< 1.5	< 0.49
211O-SG	9/5/2019	< 1.6	**72.3**	**6,600**	< 1.6	< 0.50
218O-SG	9/5/2019	< 1.5	**5.0**	< 1.3	< 1.5	< 0.49
917L-SG	9/5/2019	< 1.5	**4.6**	< 1.0	< 1.5	< 0.49
919L-SG	9/5/2019	< 1.5	**6.3**	< 1.0	< 1.5	< 0.49
921L-SG	9/5/2019	< 1.5	**2.6**	< 0.98	< 1.5	< 0.47

Notes:
Results are listed in µg/m³
IDEM's 2024 Risk-based Closure Guide (R2) Published Levels
RDSGPL: Residential Deep Soil Gas Published Level
CDSGPL: Commercial Deep Soil Gas Published Level
LCDSGPL: Large Commercial Deep Soil Gas Published Level
N/A: Not Applicable
NA: Not Analyzed
Results above detection limits are shown in bold
cis-1,2-DCE: cis-1,2-Dichloroethene
PCE: Tetrachloroethene
TCE: Trichloroethene
trans-1,2-DCE: trans-1,2-Dichloroethene
VC: Vinyl Chloride

Table 5
Indoor Air Analytical Results
Former Whirlpool Facility
VRP #6180802

	Parameter	cis-1,2-DCE	PCE	TCE	trans-1,2-DCE	VC
	RIAPL	**40**	**40**	**2**	**40**	**2**
	CIAPL	**200**	**200**	**9**	**200**	**30**
Sample ID:	Date:					
AA-1	5/21/2019	< 1.2	4.4	< 0.79	< 1.2	< 0.37
AA-1	8/27/2019	< 1.2	< 1.1	< 0.85	NA	< 0.40
AA-1	6/29/2020	< 1.6	< 1.4	< 1.1	< 1.6	< 0.53
IA-1	8/27/2019	< 1.1	< 0.93	0.75	NA	< 0.35
IA-1	6/29/2020	< 1.4	< 1.2	< 0.93	< 1.4	< 0.44
IA-2	5/21/2019	< 1.2	**250**	< 0.81	< 1.2	< 0.39
IA-2	8/27/2019	< 1.1	< 0.96	< 0.76	NA	< 0.36
IA-2	6/29/2020	< 1.3	< 1.1	< 0.88	< 1.3	< 0.42
IA-3	8/27/2019	< 1.2	< 1.1	< 0.85	NA	< 0.40
IA-3	6/29/2020	< 1.3	< 1.1	< 0.88	< 1.3	< 0.42
IA-4	8/27/2019	< 1.2	1.6	< 0.85	NA	< 0.40
IA-4	6/29/2020	< 1.3	< 1.1	< 0.88	< 1.3	< 0.42
IA-5	8/27/2019	< 1.2	2.1	< 0.85	NA	< 0.40
IA-5	6/29/2020	< 1.3	< 1.1	< 0.90	< 1.3	< 0.43
IA-6	5/21/2019	< 1.2	**1,960**	1.2	< 1.2	< 0.39
IA-6	8/27/2019	< 1.2	3.7	< 0.85	NA	< 0.40
IA-6	6/29/2020	< 1.3	1.3	< 0.88	< 1.3	< 0.42
IA-7	6/29/2020	< 1.3	1.4	< 0.88	< 1.3	< 0.42
IA-8	6/29/2020	< 1.4	< 1.2	< 0.92	< 1.4	< 0.44
IA-9	6/29/2020	< 1.4	< 1.2	< 0.92	< 1.4	< 0.44
IIA-10	5/21/2019	< 1.2	**774**	< 0.85	< 1.2	< 0.40
205P-BAS	9/4/2019	< 1.3	< 1.1	**21.8**	< 1.3	< 0.41
205P-IA	9/4/2019	< 1.2	2.4	**2.9**	< 1.2	< 0.40
205P-BAS	1/21/2021	< 1.2	< 1.0	< 0.83	< 1.2	< 0.40
205P-IA	1/21/2021	< 1.2	< 1.1	< 0.85	< 1.2	< 0.40
205P-BAS	11/16/2023	< 0.793	< 1.36	1.82	< 0.793	< 0.511
205P-IA	11/16/2023	< 0.793	1.45	< 1.07	< 0.793	< 0.511
224P-BAS	9/4/2019	< 1.2	8.3	< 0.80	< 1.2	< 0.38
224P-IA	9/4/2019	< 1.2	12.0	< 0.85	< 1.2	< 0.40
226P-IA	8/28/2019	< 1.2	< 1.1	< 0.85	< 1.2	< 0.40
226P-BAS	8/28/2019	< 1.2	2.9	< 0.85	< 1.2	< 0.40
228P-IA	9/4/2019	< 1.2	< 1.0	< 0.81	< 1.2	< 0.39
228P-BAS	9/4/2019	< 1.2	< 1.1	< 0.85	< 1.2	< 0.40
204O-BAS	4/20/2020	< 1.2	< 0.99	< 0.79	< 1.2	< 0.37
204O-IA	4/20/2020	< 1.2	< 1.0	< 0.81	< 1.2	< 0.39
205O-IA	9/9/2022	< 1.3	< 1.1	< 0.86	< 1.3	< 0.41
205O-BAS	9/9/2022	< 1.3	< 1.1	< 0.86	< 1.3	< 0.41
206O-BAS	8/28/2019	< 1.2	< 1.0	< 0.81	< 1.2	< 0.39
206O-IA	8/28/2019	< 1.3	< 1.1	< 0.88	< 1.3	< 0.42
207O-BAS	2/14/2020	< 1.3	< 1.1	< 0.86	< 1.3	< 0.41
207O-IA	2/14/2020	< 1.4	< 1.2	< 0.92	< 1.4	< 0.44
209O-IA	9/9/2022	< 1.3	< 1.1	< 0.90	< 1.3	< 0.43
209O-BAS	9/9/2022	< 1.3	< 1.1	< 0.86	< 1.3	< 0.41
211O-IA	11/21/2019	< 1.2	< 1.0	**4.0**	< 1.2	< 0.39
211O-BAS	11/21/2019	< 1.2	< 1.0	**4.9**	< 1.2	< 0.39
211O-IA	4/21/2020	< 1.2	< 1.1	< 0.85	< 1.2	< 0.40
211O-BAS	4/21/2020	< 1.2	< 1.1	< 0.85	< 1.2	< 0.40
211O-IA	1/21/2021	< 1.2	< 1.0	< 0.81	< 1.2	< 0.39
211O-BAS	1/21/2021	< 1.3	< 1.1	< 0.86	< 1.3	< 0.41
211O-IA	11/14/2023	< 0.793	< 1.36	< 1.07	< 0.793	< 0.511
211O-BAS	11/14/2023	< 0.793	< 1.36	< 1.07	< 0.793	< 0.511
217O-IA	3/4/2020	< 1.3	< 1.1	< 0.88	< 1.3	< 0.42
217O-BAS	3/4/2020	< 1.2	< 1.1	< 0.85	< 1.2	< 0.40
218O-BAS	8/29/2019	< 1.2	< 1.1	< 0.85	< 1.2	< 0.40
218O-IA	8/29/2019	< 1.2	< 1.1	< 0.85	< 1.2	< 0.40
917L-BAS	9/5/2019	< 1.2	< 1.0	< 0.80	< 1.2	< 0.38
917L-IA	9/5/2019	< 1.2	< 1.0	< 0.81	< 1.2	< 0.39
919L-IA	9/5/2019	< 1.2	< 1.0	< 0.81	< 1.2	< 0.39
919L-BAS	9/5/2019	< 1.2	< 1.0	< 0.83	< 1.2	< 0.40
925L-BAS	9/5/2019	< 1.2	< 1.0	< 0.81	< 1.2	< 0.39
925L-IA	9/5/2019	< 1.2	1.2	< 0.83	< 1.2	< 0.40

Notes:
Results are listed in µg/m³
IDEM's 2024 Risk-based Closure Guide (R2) Published Levels
RIAPL: Residential Indoor Air Published Level
CIAPL: Commercial Indoor Air Published Level
NA: Not Analyzed
cis-1,2-DCE: cis-1,2-Dichloroethene
PCE: Tetrachloroethene
TCE: Trichloroethene
trans-1,2-DCE: trans-1,2-Dichloroethene
VC: Vinyl Chloride

FIGURES

SITE

Clear Lake
Lily Lake
LaPorte
Patton Cem
Saint Josephs Cem
Monroe Manor
La Porte Municipal Airport
Kesling Park nature trail

LINCOLNWAY
E LINCOLNWAY
W 10TH ST
W 13TH ST
W 18TH ST
E 18TH ST
W 250 S
E 250 S
E 300 S
E BOYD BLVD
E JEFFERSON AVE
E MAPLE AVE
2ND ST
3RD ST
4TH ST
6TH ST
TALLEY ST
NILES ST
VIRGINIA AVE
DIVISION ST
PLAIN ST
OHIO ST
BRIGHTON ST
GROVE ST
BACH ST
FACTORY ST
DARLINGTON ST
PLANETT ST
OBERREICH ST
TRUESDELL AVE
CLEAR LAKE BLVD
W MCCLUNG RD
PARK ST
NIESEN ST
PULASKI ST
LINWOOD AVE
WASHINGTON ST
STATE ST
MADISON ST
TYLER ST
LAKE ST
MAPLE AVE
HARRISON ST
MICHIGAN AVE
INDIANA AVE
ROSE ST
RIDGE ST
WOODWARD ST
SCOTT ST
BOND ST
LAWRENCE ST
PHILADELPHIA ST
ROBERTS ST
JOHN ST
RUMELY ST
FOX ST
SAGAMORE PKWY
SILVERBROOK AVE
OAKDALE AVE
WHISPERING BLVD
N FAIL RD
COLFAX AVE
EGGEBRECHT RD
J ST
D ST
C ST
B ST
E ST
F ST
L ST
K ST
I ST
A ST
GREENWAY ST
FARRAND AVE
HILLCREST ST
REGENCY PKWY
GREENACRES
CRESCENT DR
KINGSBURY AVE
N ELM DR
KESTON LANE
BOYD BLVD
STEVENS RD
ANDREW AVE
LONGWOOD DR
FIELDSTONE DR
S 100 W
S 150 W
W POWELL DR
W CURTIS DR
S COLLINS DR
S NOWAK DR

35
39
2
4
800
825
775

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N W E S

LEGEND

PROPERTY BOUNDARY

0 950 1900

APPROXIMATE GRAPHIC SCALE (FT)

SITE LOCATION MAP

FORMER WHIRLPOOL FACILITY
229 FACTORY STREET
LA PORTE, INDIANA

7965 E. 106th Street, Suite 128
Fishers, Indiana 46038
Phone: 317.570.4919
Fax: 317.570.4943
acuityes.com

ACUITY e·s

Project:	Date:
1042-1005	11 AUG 2023
Drawn By:	Figure:
JH	1
Approved By:	
LN	

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LEGEND

- PROPERTY BOUNDARY
- GAS LINE
- STORM SEWER
- WATER SUPPLY
- SANITARY SEWER
- SANITARY/STORM COMBINED

0 60 120

APPROXIMATE GRAPHIC SCALE (FT)

7965 E. 106th Street, Suite 128
Fishers, Indiana 46038
Phone: 317.570.4919
Fax: 317.570.4943
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SITE UTILITY MAP

FORMER WHIRLPOOL FACILITY
229 FACTORY STREET
LA PORTE, INDIANA

Project:	Date:
1042-1005	10 JUN 2024
Drawn By: JH	Figure: 2
Approved By: LN	

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Former Berkel Inc.
AI ID #36314

Former Whirlpool Facility

Former Modine Manufacturing (Packing Logic) AI ID #29673

New York Blower Company AI ID #11574

New York Blower Co.

Rail Road

Approximate maximum extent of air sparge influence

Planett Street

Factory Street

Oberreich Street

Bosserman Street

E Lincolnway

Darrow Avenue

MW-1D
MW-1S
MW-2D
MW-2SR
MW-3D
MW-3
MW-4
MW-5D
MW-5S
MW-6D
MW-6S
MW-7D
MW-7S
MW-7I
MW-8D
MW-8S
MW-9D
MW-9S
MW-10S
MW-11S
MW-12D
MW-12S
MW-13S
MW-14S
MW-15S
MW-16S
MW-19S
MW-20S
OW-1D
OW-1S
OW-2D
OW-2S
AS-1
SVE-1
SVE-2
SVE-3
SVE-4
SVE-5
SVE-6
SVE-7
SG-1
SG-2
SG-3
SG-4
SG-5
SG-6
SG-7
SG-8
IA-1
IA-2
IA-3
IA-4
IA-5
IA-6
IA-7
IA-8
SSIA-01
SSIA-02
SSIA-03
SSIA-04
SSIA-05
SSIA-06
SSIA-07
SSIA-08
SSIA-09
AS/SVE Trailer

205 Planett Street
208 Planett Street
206 Planett Street
224 Planett Street
226 Planett Street
228 Planett Street
230 Planett Street
401 Darrow Avenue
219 Obereich Street
217 Obereich Street
215 Obereich Street
213 Obereich Street
211 Obereich Street
209 Obereich Street
207 Obereich Street
205 Obereich Street
203 Obereich Street
201 Obereich Street
220 Obereich Street
218 Obereich Street
216 Obereich Street
214 Obereich Street
212 Obereich Street
210 Obereich Street
208 Obereich Street
206 Obereich Street
204 Obereich Street
202 Obereich Street
925 Lincolnway
923 Lincolnway
921 Lincolnway
919 Lincolnway
917 Lincolnway
915 Lincolnway
911 Lincolnway
909 Lincolnway
903 Lincolnway

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LEGEND

- MONITORING WELL
- AIR SPARGE POINT
- SVE WELL
- DEEP SOIL GAS WELL
- INDOOR AIR SAMPLE LOCATION
- SUB SLAB SOIL GAS SAMPLE POINT
- AS PRESSURIZED PIPING
- SVE SYSTEM PIPING
- PROPERTY BOUNDARY
- GAS LINE
- STORM SEWER
- WATER SUPPLY
- SANITARY SEWER
- SANITARY/STORM COMBINED
- RESIDENCE WITH SSDS

0 60 120
APPROXIMATE GRAPHIC SCALE (FT)

7965 E. 106th Street, Suite 128
Fishers, Indiana 46038
Phone: 317.570.4919
Fax: 317.570.4943
acuityes.com

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SITE PLAN MAP
FORMER WHIRLPOOL FACILITY
229 FACTORY STREET
LA PORTE, INDIANA

Project:	Date:
1042-1005	10 JUN 2024
Drawn By: LN	Figure: 3
Approved By: LN	

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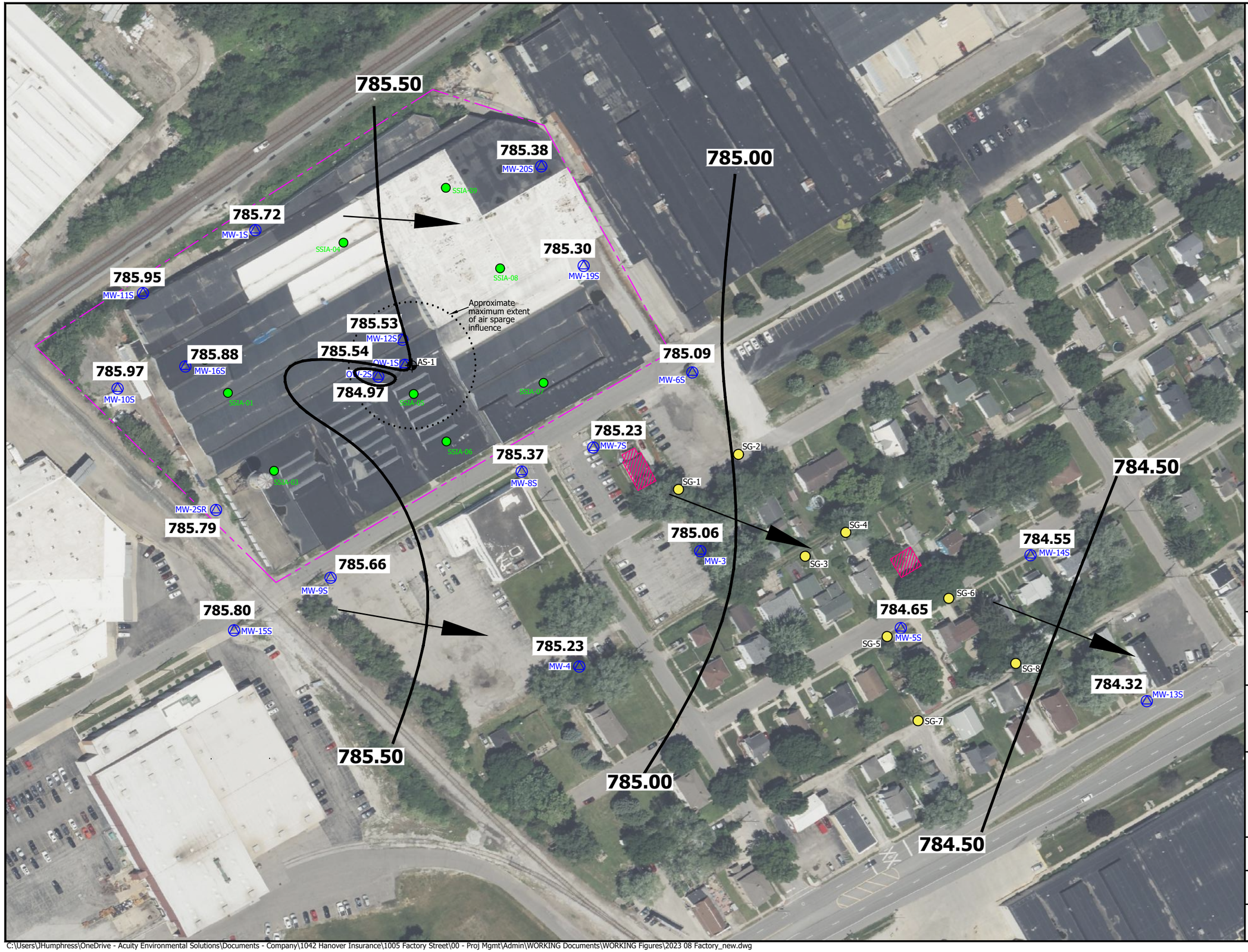

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LEGEND

- MONITORING WELL
- AIR SPARGE POINT
- SUB SLAB SOIL GAS SAMPLE POINT
- DEEP SOIL GAS WELL
- RESIDENCE WITH SSDS

GROUNDWATER ELEVATION (FT AMSL) MEASURED ON 11/13/2023

INFERRED DIRECTION OF GROUNDWATER FLOW

0 60 120

APPROXIMATE GRAPHIC SCALE (FT)

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SHALLOW POTENTIOMETRIC GROUNDWATER FLOW MAP

FORMER WHIRLPOOL FACILITY
229 FACTORY STREET
LA PORTE, INDIANA

Project:	Date:
1042-1005	10 JUN 2024
Drawn By:	Figure:
LN	4a
Approved By:	
LN	

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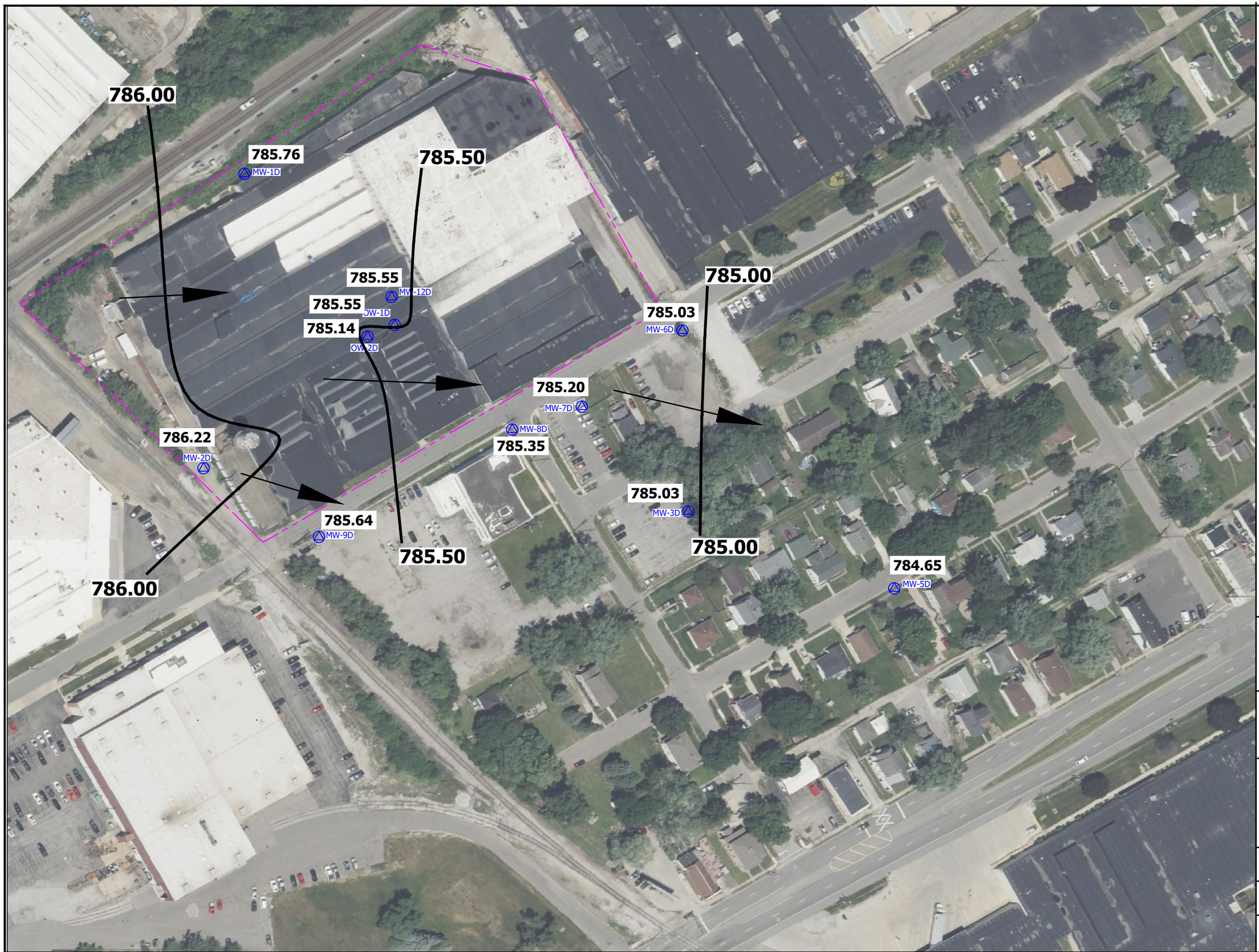

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LEGEND

MONITORING WELL

GROUNDWATER ELEVATION (FT AMSL)
MEASURED ON 11/13/2023

INFERRED DIRECTION OF GROUNDWATER FLOW

0 60 120

APPROXIMATE GRAPHIC SCALE (FT)

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DEEP POTENTIOMETRIC GROUNDWATER FLOW MAP
FORMER WHIRLPOOL FACILITY
229 FACTORY STREET
LA PORTE, INDIANA

Project:	Date:
1042-1005	10 JUN 2024
Drawn By: LN	Figure: 4b
Approved By: LN	

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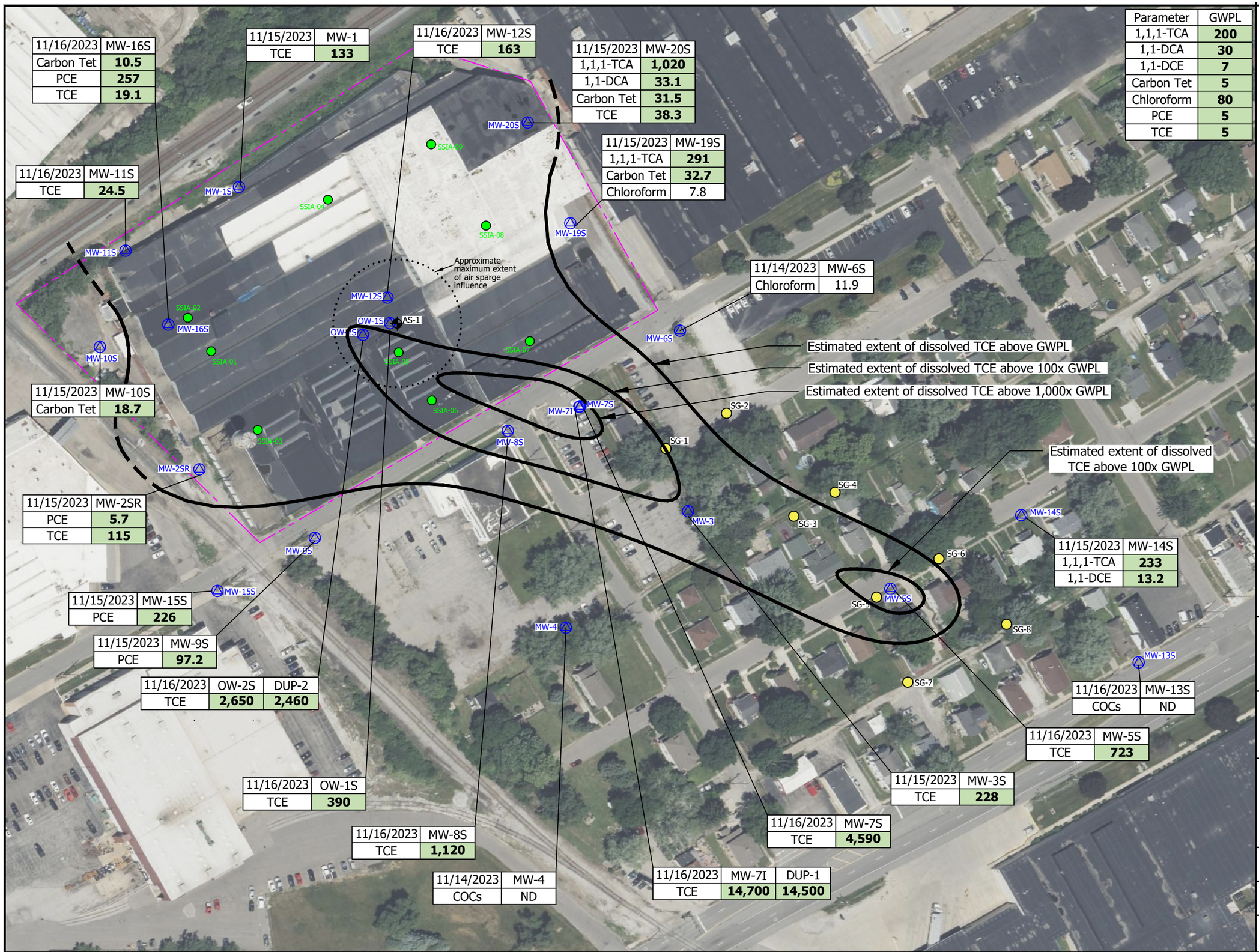

LEGEND

- MONITORING WELL
- AIR SPARGE POINT
- SUB SLAB SOIL GAS SAMPLE POINT
- DEEP SOIL GAS WELL
- PROPERTY BOUNDARY

Notes:
Results are listed in µg/L
GWPL: Groundwater Published Level
Only detections per sample location are displayed
COC: Contaminant of Concern
ND: None Detected
1,1,1-TCA: 1,1,1-Trichloroethane
1,1-DCA: 1,1-Dichloroethane
1,1-DCE: 1,1-Dichloroethene
Carbon Tet: Carbon Tetrachloride
PCE: Tetrachloroethene
TCE: Trichloroethene

0 60 120
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SHALLOW GROUNDWATER ANALYTICAL RESULTS AND DISSOLVED TCE EXTENTS
FORMER WHIRLPOOL FACILITY
229 FACTORY STREET
LA PORTE, INDIANA

Project:	Date:
1042-1005	10 JUN 2024
Drawn By: LN	Figure: 5a
Approved By: LN	

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LEGEND

MONITORING WELL

PROPERTY BOUNDARY

Parameter	GWPL
TCE	5

Notes:
Results are listed in µg/L
GWPL: Groundwater Published Level
Only detections per sample location are displayed
COC: Contaminant of Concern
ND: None Detected
TCE: Trichloroethene

0 60 120
APPROXIMATE GRAPHIC SCALE (FT)

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DEEP GROUNDWATER ANALYTICAL RESULTS AND DISSOLVED EXTENTS OF TCE
FORMER WHIRLPOOL FACILITY
229 FACTORY STREET
LA PORTE, INDIANA

Project:	Date:
1042-1005	10 JUN 2024
Drawn By: LN	Figure: 5b
Approved By: LN	

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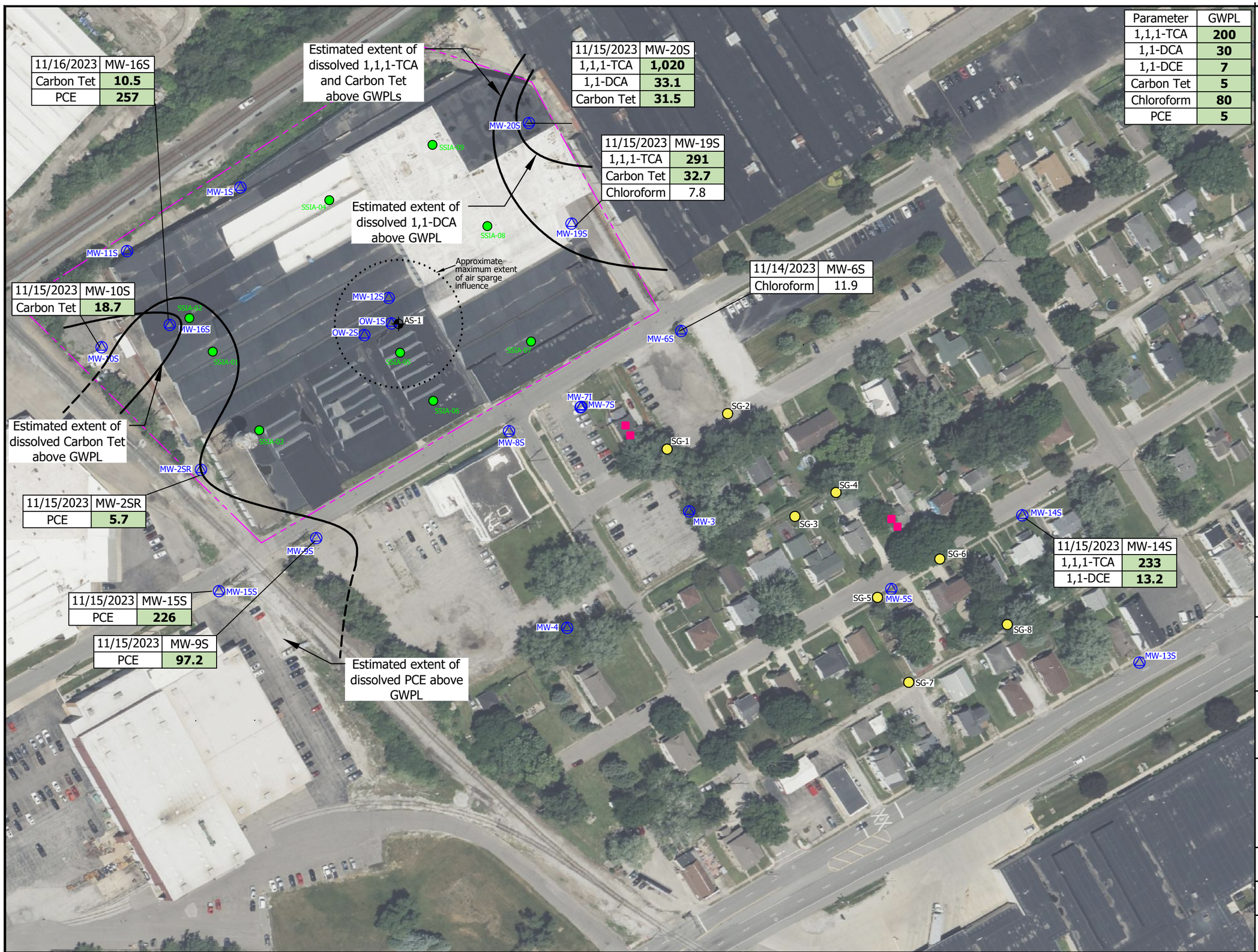

Parameter	GWPL
1,1,1-TCA	**200**
1,1-DCA	**30**
1,1-DCE	**7**
Carbon Tet	**5**
Chloroform	**80**
PCE	**5**

N W E S

LEGEND

- MONITORING WELL
- AIR SPARGE POINT
- SUB SLAB SOIL GAS SAMPLE POINT
- DEEP SOIL GAS WELL
- PROPERTY BOUNDARY

Notes:
Results are listed in µg/L
GWPL: Groundwater Published Level
Only detections per sample location are displayed
RRC: Release Related Compound
1,1,1-TCA: 1,1,1-Trichloroethane
1,1-DCA: 1,1-Dichloroethane
1,1-DCE: 1,1-Dichloroethene
Carbon Tet: Carbon Tetrachloride
PCE: Tetrachloroethene

0 60 120
APPROXIMATE GRAPHIC SCALE (FT)

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DISSOLVED EXTENTS OF OTHER RRCS IN GROUNDWATER
FORMER WHIRLPOOL FACILITY
229 FACTORY STREET
LA PORTE, INDIANA

Project:	Date:
1042-1005	19 JUN 2024
Drawn By: JH	Figure: 5c
Approved By: LN	

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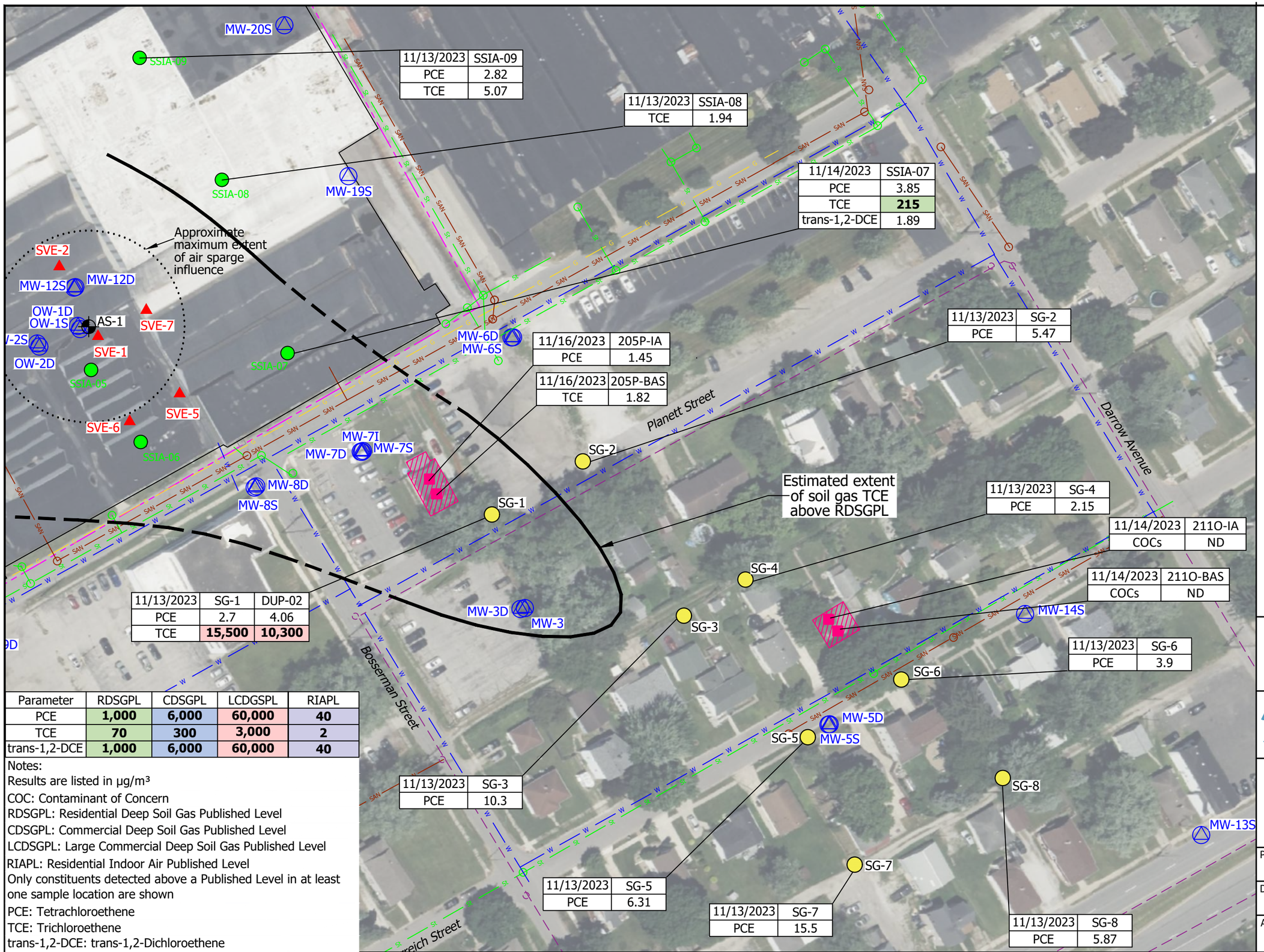

Parameter	RDSGPL	CDSGPL	LCDGSPL	RIAPL
PCE	**1,000**	**6,000**	**60,000**	**40**
TCE	**70**	**300**	**3,000**	**2**
trans-1,2-DCE	**1,000**	**6,000**	**60,000**	**40**

Notes:
Results are listed in µg/m³
COC: Contaminant of Concern
RDSGPL: Residential Deep Soil Gas Published Level
CDSGPL: Commercial Deep Soil Gas Published Level
LCDGSPL: Large Commercial Deep Soil Gas Published Level
RIAPL: Residential Indoor Air Published Level
Only constituents detected above a Published Level in at least one sample location are shown
PCE: Tetrachloroethene
TCE: Trichloroethene
trans-1,2-DCE: trans-1,2-Dichloroethene

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LEGEND

- MONITORING WELL
- AIR SPARGE POINT
- SVE WELL
- DEEP SOIL GAS WELL
- INDOOR AIR SAMPLE LOCATION
- SUB SLAB SOIL GAS SAMPLE POINT
- PROPERTY BOUNDARY
- GAS LINE
- STORM SEWER
- WATER SUPPLY
- SANITARY SEWER
- SANITARY/STORM COMBINED
- RESIDENCE WITH SSDS

0 40 80
APPROXIMATE GRAPHIC SCALE (FT)

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VAPOR ANALYTICAL RESULTS
FORMER WHIRLPOOL FACILITY
229 FACTORY STREET
LA PORTE, INDIANA

Project:	Date:
1042-1005	10 JUN 2024
Drawn By: LN	Figure: 7
Approved By: LN	

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Appendix A

Groundwater and Soil Gas Sampling Summary Sheets

WELL SAMPLE FORM

Project Name:	Factory Street	Date:	11/15/2023
Project Number:	1042-1005	Well ID:	MW-1S
Project Manager:	LN	Field Personnel:	MG

WELL OBSERVATIONS

		Notes
Concrete Pad Condition:	Good	
Cover Secured:	YES	
Cap Secured:	YES	
Custody Seal Number:		

WELL MEASUREMENTS

Well Diameter:	2.0	inches
Screen Length:	10	feet
Total Depth:	32	feet
Screened Interval:	22 - 32	feet
Depth to Water:	27.61	feet
Height of Water Column:	4.39	feet
One Casing Volume:	0.71557	gallons

Factor * Water Column Height Equals Gallons	
Factor	Diameter
0.041	1.0" Well
0.092	1.5" Well
0.163	2.0" Well

Pump Volume by Pump Size:

X .850", 18" = 29 ml

.675", 18" = 15 ml

SAMPLE METHOD

Peristaltic Pump:		Model:		Tubing:		
Bladder Pump:	X	Model:	Geotech Geocontrol	Tubing:	TLPE	Bladder: Teflon
Bailer:		Material:				

Pump Placement (From TOC): 30 feet

Pump placed in screened interval?: YES

Tubing Length: 34 feet

Start Time:	1605		
Finish Time:	1655	Volume Purged:	1.25 gallons
Visual Water Quality:	Clear	Waste Drum Id:	2
Recharge Rate:	Adequate	Notes:	

FLOW RATE & STABILIZED WATER LEVEL

SWL #1:	27.61	SWL #2:	27.61	SWL #3:	27.61	Flow Rate:	65 mL/min

Sample Identification: MW-1S

QA/QC: N/A

Sample Time: 1700

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Fishers, IN 46038 fax: 317 / 570-4943 web: www.AcuityES.com

Low-Flow Test Report:

Test Date / Time: 11/15/2023 4:18:34 PM
Project: Factory Street Q4 2023 (2)
Operator Name: M. Grzegorek

Location Name: MW-1S **Latitude: 41.62200216382932** **Longitude: -86.70602672805002** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 22 ft** **Total Depth: 32 ft** **Initial Depth to Water: 27.61 ft**	**Pump Type: Bladder** **Tubing Type: TLPE** **Tubing Inner Diameter: 0.125 in** **Tubing Length: 34 ft** **Pump Intake From TOC: 30 ft** **Estimated Total Volume Pumped: 2405 ml** **Flow Cell Volume: 130 ml** **Final Flow Rate: 65 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 600** **Serial Number: 867255**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10	+/- 10 %	+/- 10		
11/15/2023 4:18 PM	00:00	7.43 pH	14.72 °C	596.22 µS/cm	8.63 mg/L	225.21 NTU	108.6 mV	27.61 ft	65.00 ml/min
11/15/2023 4:22 PM	03:42	7.35 pH	14.20 °C	582.34 µS/cm	8.78 mg/L	112.01 NTU	116.0 mV	27.61 ft	65.00 ml/min
11/15/2023 4:25 PM	07:24	7.32 pH	14.00 °C	576.37 µS/cm	8.89 mg/L	58.39 NTU	122.4 mV	27.61 ft	65.00 ml/min
11/15/2023 4:29 PM	11:06	7.32 pH	13.86 °C	573.62 µS/cm	8.99 mg/L	31.70 NTU	127.0 mV	27.61 ft	65.00 ml/min
11/15/2023 4:33 PM	14:48	7.33 pH	13.77 °C	572.28 µS/cm	9.04 mg/L	26.28 NTU	130.4 mV	27.61 ft	65.00 ml/min
11/15/2023 4:37 PM	18:30	7.34 pH	13.72 °C	572.10 µS/cm	9.07 mg/L	28.65 NTU	132.9 mV	27.61 ft	65.00 ml/min
11/15/2023 4:40 PM	22:12	7.35 pH	13.76 °C	572.09 µS/cm	9.12 mg/L	22.60 NTU	135.0 mV	27.61 ft	65.00 ml/min
11/15/2023 4:44 PM	25:54	7.36 pH	13.69 °C	571.54 µS/cm	9.13 mg/L	22.56 NTU	136.8 mV	27.61 ft	65.00 ml/min
11/15/2023 4:48 PM	29:36	7.37 pH	13.64 °C	571.42 µS/cm	9.14 mg/L	15.49 NTU	138.6 mV	27.61 ft	65.00 ml/min
11/15/2023 4:51 PM	33:18	7.37 pH	13.61 °C	570.77 µS/cm	9.17 mg/L	14.14 NTU	140.1 mV	27.61 ft	65.00 ml/min
11/15/2023 4:55 PM	37:00	7.38 pH	13.58 °C	570.74 µS/cm	9.18 mg/L	15.51 NTU	142.2 mV	27.61 ft	65.00 ml/min

Samples

Sample ID:	Description:

MW-1	

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WELL SAMPLE FORM

Project Name:	Factory Street	Date:	11/14/2023
Project Number:	1042-1005	Well ID:	MW-1D
Project Manager:	LN	Field Personnel:	MG

WELL OBSERVATIONS

		Notes
Concrete Pad Condition:	Good	
Cover Secured:	YES	
Cap Secured:	YES	
Custody Seal Number:		

WELL MEASUREMENTS

Well Diameter:	2.0	inches
Screen Length:	5	feet
Total Depth:	58	feet
Screened Interval:	53 - 58	feet
Depth to Water:	26.89	feet
Height of Water Column:	31.11	feet
One Casing Volume:	5.07093	gallons

Factor * Water Column Height Equals Gallons	
Factor	Diameter
0.041	1.0" Well
0.092	1.5" Well
0.163	2.0" Well

Pump Volume by Pump Size:

X .850", 18" = 29 ml

.675", 18" = 15 ml

SAMPLE METHOD

Peristaltic Pump:		Model:		Tubing:		
Bladder Pump:	X	Model:	Geotech Geocontrol	Tubing:	TLPE	Bladder: Teflon
Bailer:		Material:				

Pump Placement (From TOC): 56 feet

Pump placed in screened interval?: YES

Tubing Length: 59 feet

Start Time:	925		
Finish Time:	1003	Volume Purged:	1.25 gallons
Visual Water Quality:	Clear	Waste Drum Id:	4
Recharge Rate:	Adequate	Notes:	

FLOW RATE & STABILIZED WATER LEVEL

SWL #1:	26.89	SWL #2:	26.89	SWL #3:	26.89	Flow Rate:	105 mL/min

Sample Identification: MW-1D

QA/QC: N/A

Sample Time: 1005

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Low-Flow Test Report:

Test Date / Time: 11/14/2023 9:31:10 AM
Project: Factory Street Q4 2023
Operator Name: M. Grzegorek

Location Name: MW-1D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 53 ft** **Total Depth: 58 ft** **Initial Depth to Water: 26.89 ft**	**Pump Type: Bladder** **Tubing Type: TLPE** **Tubing Inner Diameter: 0.125 in** **Tubing Length: 59 ft** **Pump Intake From TOC: 56 ft** **Estimated Total Volume Pumped: 3612 ml** **Flow Cell Volume: 130 ml** **Final Flow Rate: 105 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 600** **Serial Number: 867255**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10	+/- 10 %	+/- 10		
11/14/2023 9:31 AM	00:00	7.16 pH	11.62 °C	1,160.1 µS/cm	1.81 mg/L	280.30 NTU	62.8 mV	26.89 ft	105.00 ml/min
11/14/2023 9:34 AM	02:52	7.19 pH	11.67 °C	1,155.4 µS/cm	1.27 mg/L	146.24 NTU	-14.1 mV	26.89 ft	105.00 ml/min
11/14/2023 9:36 AM	05:44	7.21 pH	11.71 °C	1,153.1 µS/cm	1.20 mg/L	63.91 NTU	-39.9 mV	26.89 ft	105.00 ml/min
11/14/2023 9:39 AM	08:36	7.22 pH	11.64 °C	1,147.7 µS/cm	1.23 mg/L	47.14 NTU	-64.3 mV	26.89 ft	105.00 ml/min
11/14/2023 9:42 AM	11:28	7.23 pH	11.75 °C	1,153.2 µS/cm	1.20 mg/L	45.77 NTU	-81.5 mV	26.89 ft	105.00 ml/min
11/14/2023 9:45 AM	14:20	7.23 pH	11.81 °C	1,157.3 µS/cm	1.20 mg/L	35.01 NTU	-93.9 mV	26.89 ft	105.00 ml/min
11/14/2023 9:48 AM	17:12	7.24 pH	11.81 °C	1,152.3 µS/cm	1.20 mg/L	23.49 NTU	-102.9 mV	26.89 ft	105.00 ml/min
11/14/2023 9:51 AM	20:04	7.25 pH	11.82 °C	1,148.3 µS/cm	1.23 mg/L	29.11 NTU	-113.5 mV	26.89 ft	105.00 ml/min
11/14/2023 9:54 AM	22:56	7.26 pH	11.85 °C	1,144.9 µS/cm	1.26 mg/L	16.57 NTU	-114.6 mV	26.89 ft	105.00 ml/min
11/14/2023 9:56 AM	25:48	7.26 pH	11.82 °C	1,144.1 µS/cm	1.29 mg/L	10.62 NTU	-115.9 mV	26.89 ft	105.00 ml/min
11/14/2023 9:59 AM	28:40	7.26 pH	11.88 °C	1,133.3 µS/cm	1.30 mg/L	7.96 NTU	-117.5 mV	26.89 ft	105.00 ml/min
11/14/2023 10:02 AM	31:32	7.27 pH	11.92 °C	1,138.1 µS/cm	1.31 mg/L	5.13 NTU	-119.5 mV	26.89 ft	105.00 ml/min
11/14/2023 10:05 AM	34:24	7.28 pH	11.95 °C	1,137.0 µS/cm	1.34 mg/L	7.96 NTU	-121.3 mV	26.89 ft	105.00 ml/min

Samples

Sample ID:	Description:
MW-1D	

WELL SAMPLE FORM

Project Name:	Factory Street	Date:	11/15/2023
Project Number:	1042-1005	Well ID:	MW-2SR
Project Manager:	LN	Field Personnel:	JH

WELL OBSERVATIONS

Concrete Pad Condition:	Good	Notes
Cover Secured:	NO	No Bolts
Cap Secured:	YES	Only 1/3 bolts present
Custody Seal Number:		

WELL MEASUREMENTS

Well Diameter:	2.0	inches
Screen Length:	10	feet
Total Depth:	30	feet
Screened Interval:	20 - 30	feet
Depth to Water:	26.54	feet
Height of Water Column:	3.46	feet
One Casing Volume:	0.56398	gallons

Factor * Water Column Height Equals Gallons	
Factor	Diameter
0.041	1.0" Well
0.092	1.5" Well
0.163	2.0" Well

Pump Volume by Pump Size:

X .850", 18" = 29 ml

.675", 18" = 15 ml

SAMPLE METHOD

Peristaltic Pump:		Model:		Tubing:		
Bladder Pump:	X	Model:	Geotech Geocontrol	Tubing:	TLPE	Bladder: Teflon
Bailer:		Material:		Pump Placement (From TOC):	29.5	feet
Pump placed in screened interval?:	YES			Tubing Length:	35	feet

Start Time:	1352		
Finish Time:	1357	Volume Purged:	0.75 gallons
Visual Water Quality:	Clear	Waste Drum Id:	2
Recharge Rate:	Adequate	Notes:	

FLOW RATE & STABILIZED WATER LEVEL

SWL #1:	26.54	SWL #2:	26.54	SWL #3:	26.54	Flow Rate:	185 mL/min

Sample Identification: MW-2SR

QA/QC: None

Sample Time: 1400

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Low-Flow Test Report:

Test Date / Time: 11/15/2023 1:52:32 PM
Project: 1042-1005
Operator Name: JHumphress

Location Name: MW-2SR **Latitude: 41.62095031704924** **Longitude: -86.70605085798233** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20 ft** **Total Depth: 30 ft** **Initial Depth to Water: 26.54 ft**	**Pump Type: Bladder** **Tubing Type: TLPE** **Tubing Inner Diameter: 0.125 in** **Tubing Length: 35 ft** **Pump Intake From TOC: 29.5 ft** **Estimated Total Volume Pumped: 1119.25 ml** **Flow Cell Volume: 130 ml** **Final Flow Rate: 185 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 600** **Serial Number: 1022234**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10		
11/15/2023 1:52 PM	00:00	7.03 pH	16.74 °C	1,345.7 µS/cm	4.23 mg/L	8.82 NTU	143.0 mV	26.54 ft	185.00 ml/min
11/15/2023 1:53 PM	01:18	7.05 pH	16.40 °C	1,324.8 µS/cm	3.50 mg/L	8.01 NTU	139.1 mV	26.54 ft	185.00 ml/min
11/15/2023 1:55 PM	02:37	7.06 pH	16.15 °C	1,323.2 µS/cm	3.34 mg/L	4.59 NTU	136.2 mV	26.54 ft	185.00 ml/min
11/15/2023 1:55 PM	03:27	7.03 pH	16.07 °C	1,314.6 µS/cm	3.36 mg/L	2.59 NTU	135.8 mV	26.54 ft	185.00 ml/min
11/15/2023 1:57 PM	04:45	7.05 pH	16.04 °C	1,295.7 µS/cm	3.45 mg/L	6.71 NTU	132.7 mV	26.54 ft	185.00 ml/min
11/15/2023 1:58 PM	06:03	7.05 pH	15.96 °C	1,304.1 µS/cm	3.42 mg/L	2.13 NTU	130.6 mV	26.54 ft	185.00 ml/min

Samples

Sample ID:	Description:

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WELL SAMPLE FORM

Project Name:	Factory Street	Date:	11/14/2023
Project Number:	1042-1005	Well ID:	MW-2D
Project Manager:	LN	Field Personnel:	KG

WELL OBSERVATIONS

		Notes
Concrete Pad Condition:	Good	
Cover Secured:	YES	
Cap Secured:	YES	
Custody Seal Number:		

WELL MEASUREMENTS

Well Diameter:	2.0	inches
Screen Length:	5	feet
Total Depth:	55	feet
Screened Interval:	50 - 55	feet
Depth to Water:	26.58	feet
Height of Water Column:	28.42	feet
One Casing Volume:	4.63246	gallons

Factor * Water Column Height Equals Gallons	
Factor	Diameter
0.041	1.0" Well
0.092	1.5" Well
0.163	2.0" Well

Pump Volume by Pump Size:

X .850", 18" = 29 ml

.675", 18" = 15 ml

SAMPLE METHOD

Peristaltic Pump:		Model:		Tubing:		
Bladder Pump:	X	Model:	Geotech Geocontrol	Tubing:	TLPE	Bladder: Teflon
Bailer:		Material:		Pump Placement (From TOC):	53	feet
Pump placed in screened interval?:	YES			Tubing Length:	56	feet

Start Time:	1307		
Finish Time:	1356	Volume Purged:	2.5 gallons
Visual Water Quality:	Clear	Waste Drum Id:	4
Recharge Rate:	Adequate	Notes: used J. Humphress pump & tubing as she had controller issues and her pump was already in well	

FLOW RATE & STABILIZED WATER LEVEL

SWL #1:	26.58	SWL #2:	26.58	SWL #3:	26.58	Flow Rate:	186 mL/min

Sample Identification: MW-2D

QA/QC:

Sample Time: 1400

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Fishers, IN 46038 fax: 317 / 570-4943 web: www.AcuityES.com

Low-Flow Test Report:

Test Date / Time: 11/14/2023 1:07:38 PM
Project: Factory Street (3)
Operator Name: KG

Location Name: MW-2D **Latitude: 41.62095387935789** **Longitude: -86.7060378660324** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 60 in** **Top of Screen: 50 ft** **Total Depth: 55 ft** **Initial Depth to Water: 26.58 ft**	**Pump Type: Bladder** **Tubing Type: Tlpe** **Tubing Inner Diameter: 0.125 in** **Tubing Length: 56 ft** **Pump Intake From TOC: 53 ft** **Estimated Total Volume Pumped: 8742 ml** **Flow Cell Volume: 130 ml** **Final Flow Rate: 186 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 600** **Serial Number: 707273**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10		
11/14/2023 1:07 PM	00:00	7.35 pH	16.35 °C	906.95 µS/cm	4.80 mg/L	128.95 NTU	4.0 mV	26.58 ft	186.00 ml/min
11/14/2023 1:09 PM	01:34	7.40 pH	15.95 °C	919.87 µS/cm	4.21 mg/L	155.07 NTU	-18.0 mV	26.58 ft	186.00 ml/min
11/14/2023 1:10 PM	03:08	7.43 pH	15.63 °C	929.16 µS/cm	3.87 mg/L	102.96 NTU	-26.5 mV	26.58 ft	186.00 ml/min
11/14/2023 1:12 PM	04:42	7.42 pH	15.73 °C	937.96 µS/cm	3.55 mg/L	86.64 NTU	-28.6 mV	26.58 ft	186.00 ml/min
11/14/2023 1:13 PM	06:16	7.43 pH	15.41 °C	949.16 µS/cm	3.18 mg/L	87.86 NTU	-31.0 mV	26.58 ft	186.00 ml/min
11/14/2023 1:15 PM	07:50	7.42 pH	15.44 °C	956.70 µS/cm	2.81 mg/L	99.10 NTU	-34.3 mV	26.58 ft	186.00 ml/min
11/14/2023 1:17 PM	09:24	7.42 pH	15.50 °C	967.35 µS/cm	2.44 mg/L	65.48 NTU	-36.5 mV	26.58 ft	186.00 ml/min
11/14/2023 1:18 PM	10:58	7.41 pH	15.30 °C	973.09 µS/cm	2.19 mg/L	48.01 NTU	-37.8 mV	26.58 ft	186.00 ml/min
11/14/2023 1:20 PM	12:32	7.40 pH	15.46 °C	978.09 µS/cm	2.00 mg/L	58.22 NTU	-34.9 mV	26.58 ft	186.00 ml/min
11/14/2023 1:21 PM	14:06	7.40 pH	15.50 °C	986.00 µS/cm	1.69 mg/L	36.39 NTU	-42.2 mV	26.58 ft	186.00 ml/min
11/14/2023 1:23 PM	15:40	7.40 pH	15.67 °C	987.65 µS/cm	1.56 mg/L	35.87 NTU	-39.4 mV	26.58 ft	186.00 ml/min
11/14/2023 1:24 PM	17:14	7.40 pH	15.50 °C	994.76 µS/cm	1.31 mg/L	29.62 NTU	-42.4 mV	26.58 ft	186.00 ml/min
11/14/2023 1:26 PM	18:48	7.39 pH	15.50 °C	995.74 µS/cm	1.18 mg/L	31.63 NTU	-43.6 mV	26.58 ft	186.00 ml/min
11/14/2023 1:28 PM	20:22	7.40 pH	15.56 °C	998.61 µS/cm	1.12 mg/L	21.61 NTU	-44.1 mV	26.58 ft	186.00 ml/min

11/14/2023 1:29 PM	21:56	7.39 pH	15.66 °C	998.42 µS/cm	1.09 mg/L	28.57 NTU	-44.4 mV	26.58 ft	186.00 ml/min
11/14/2023 1:31 PM	23:30	7.40 pH	15.65 °C	1,000.5 µS/cm	1.04 mg/L	23.05 NTU	-47.1 mV	26.58 ft	186.00 ml/min
11/14/2023 1:32 PM	25:04	7.39 pH	15.45 °C	1,000.8 µS/cm	1.01 mg/L	27.69 NTU	-50.3 mV	26.58 ft	186.00 ml/min
11/14/2023 1:34 PM	26:38	7.39 pH	15.49 °C	1,001.9 µS/cm	0.97 mg/L	31.53 NTU	-50.3 mV	26.58 ft	186.00 ml/min
11/14/2023 1:35 PM	28:12	7.39 pH	15.44 °C	1,002.2 µS/cm	0.94 mg/L	23.55 NTU	-49.5 mV	26.58 ft	186.00 ml/min
11/14/2023 1:37 PM	29:46	7.39 pH	15.54 °C	1,002.3 µS/cm	0.92 mg/L	19.45 NTU	-47.6 mV	26.58 ft	186.00 ml/min
11/14/2023 1:38 PM	31:20	7.39 pH	15.53 °C	1,003.8 µS/cm	0.89 mg/L	22.40 NTU	-51.1 mV	26.58 ft	186.00 ml/min
11/14/2023 1:40 PM	32:54	7.39 pH	15.49 °C	1,001.3 µS/cm	0.89 mg/L	20.86 NTU	-50.3 mV	26.58 ft	186.00 ml/min
11/14/2023 1:42 PM	34:28	7.40 pH	15.46 °C	1,004.4 µS/cm	0.84 mg/L	18.54 NTU	-54.4 mV	26.58 ft	186.00 ml/min
11/14/2023 1:43 PM	36:02	7.39 pH	15.50 °C	1,003.5 µS/cm	0.80 mg/L	22.74 NTU	-56.3 mV	26.58 ft	186.00 ml/min
11/14/2023 1:45 PM	37:36	7.39 pH	15.48 °C	1,005.8 µS/cm	0.79 mg/L	16.51 NTU	-56.1 mV	26.58 ft	186.00 ml/min
11/14/2023 1:46 PM	39:10	7.39 pH	15.55 °C	1,006.2 µS/cm	0.77 mg/L	11.73 NTU	-56.9 mV	26.58 ft	186.00 ml/min
11/14/2023 1:48 PM	40:44	7.39 pH	15.50 °C	1,006.4 µS/cm	0.71 mg/L	17.01 NTU	-59.3 mV	26.58 ft	186.00 ml/min
11/14/2023 1:49 PM	42:18	7.39 pH	15.50 °C	1,007.0 µS/cm	0.71 mg/L	8.26 NTU	-59.9 mV	26.58 ft	186.00 ml/min
11/14/2023 1:51 PM	43:52	7.39 pH	15.60 °C	1,006.9 µS/cm	0.72 mg/L	16.46 NTU	-58.3 mV	26.58 ft	186.00 ml/min
11/14/2023 1:53 PM	45:26	7.39 pH	15.44 °C	1,007.0 µS/cm	0.72 mg/L	11.26 NTU	-59.8 mV	26.58 ft	186.00 ml/min
11/14/2023 1:54 PM	47:00	7.39 pH	15.30 °C	1,005.4 µS/cm	0.69 mg/L	12.51 NTU	-58.5 mV	26.58 ft	186.00 ml/min

Samples

Sample ID:	Description:

WELL SAMPLE FORM

Project Name:	Factory Street	Date:	11/15/2023
Project Number:	1042-1005	Well ID:	MW-3S
Project Manager:	LN	Field Personnel:	JH

WELL OBSERVATIONS

		Notes
Concrete Pad Condition:	Good	
Cover Secured:	YES	
Cap Secured:	YES	
Custody Seal Number:		

WELL MEASUREMENTS

Well Diameter:	2.0	inches
Screen Length:	10	feet
Total Depth:	30	feet
Screened Interval:	20 - 30	feet
Depth to Water:	26.20	feet
Height of Water Column:	3.8	feet
One Casing Volume:	0.6194	gallons

Factor * Water Column Height Equals Gallons	
Factor	Diameter
0.041	1.0" Well
0.092	1.5" Well
0.163	2.0" Well

Pump Volume by Pump Size:

X .850", 18" = 29 ml

.675", 18" = 15 ml

SAMPLE METHOD

Peristaltic Pump:		Model:		Tubing:		
Bladder Pump:	X	Model:	Geotech Geocontrol	Tubing:	TLPE	Bladder: Teflon
Bailer:		Material:				

Pump Placement (From TOC): 29 feet

Pump placed in screened interval?: YES

Tubing Length: 33 feet

Start Time:	1439		
Finish Time:	1544	Volume Purged:	2.5 gallons
Visual Water Quality:	Clear	Waste Drum Id:	2
Recharge Rate:	Adequate	Notes:	

FLOW RATE & STABILIZED WATER LEVEL

SWL #1:	26.2	SWL #2:	26.2	SWL #3:	26.2	Flow Rate:	200 mL/min

Sample Identification: MW-3S

QA/QC: None

Sample Time: 1550

7965 East 106th Street, Suite 128 ph: 317 / 570-4919 email: info@acuityes.com
Fishers, IN 46038 fax: 317 / 570-4943 web: www.AcuityES.com

Low-Flow Test Report:

Test Date / Time: 11/15/2023 2:39:16 PM
Project: 1042-1005
Operator Name: JHumphress

Location Name: MW-3S **Latitude: 41.62095438227208** **Longitude: -86.70380366974203** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20 ft** **Total Depth: 30 ft** **Initial Depth to Water: 26.2 ft**	**Pump Type: Bladder** **Tubing Type: TLPE** **Tubing Inner Diameter: 0.125 in** **Tubing Length: 33 ft** **Pump Intake From TOC: 29 ft** **Estimated Total Volume Pumped: 12780 ml** **Flow Cell Volume: 130 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 600** **Serial Number: 1022234**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10		
11/15/2023 2:39 PM	00:00	7.01 pH	16.44 °C	1,400.5 µS/cm	2.78 mg/L	156.57 NTU	114.4 mV	26.20 ft	200.00 ml/min
11/15/2023 2:40 PM	01:11	6.98 pH	15.91 °C	1,416.8 µS/cm	2.66 mg/L	139.72 NTU	115.1 mV	26.20 ft	200.00 ml/min
11/15/2023 2:41 PM	02:22	6.98 pH	15.63 °C	1,419.7 µS/cm	2.70 mg/L	186.50 NTU	114.7 mV	26.20 ft	200.00 ml/min
11/15/2023 2:42 PM	03:33	6.97 pH	15.60 °C	1,422.1 µS/cm	2.70 mg/L	210.14 NTU	114.7 mV	26.20 ft	200.00 ml/min
11/15/2023 2:44 PM	04:44	6.97 pH	15.44 °C	1,423.8 µS/cm	2.72 mg/L	212.68 NTU	114.4 mV	26.20 ft	200.00 ml/min
11/15/2023 2:45 PM	05:55	6.97 pH	15.42 °C	1,424.9 µS/cm	2.71 mg/L	262.79 NTU	114.3 mV	26.20 ft	200.00 ml/min
11/15/2023 2:46 PM	07:06	6.97 pH	15.32 °C	1,426.7 µS/cm	2.71 mg/L	236.17 NTU	113.8 mV	26.20 ft	200.00 ml/min
11/15/2023 2:47 PM	08:17	6.97 pH	15.39 °C	1,426.9 µS/cm	2.72 mg/L	294.91 NTU	113.2 mV	26.20 ft	200.00 ml/min
11/15/2023 2:48 PM	09:28	6.98 pH	15.30 °C	1,427.8 µS/cm	2.71 mg/L	218.97 NTU	112.5 mV	26.20 ft	200.00 ml/min
11/15/2023 2:49 PM	10:39	6.97 pH	15.29 °C	1,425.5 µS/cm	2.68 mg/L	216.50 NTU	111.7 mV	26.20 ft	200.00 ml/min
11/15/2023 2:51 PM	11:50	6.99 pH	15.24 °C	1,428.7 µS/cm	2.69 mg/L	187.69 NTU	111.1 mV	26.20 ft	200.00 ml/min
11/15/2023 2:52 PM	13:01	6.98 pH	15.25 °C	1,426.0 µS/cm	2.68 mg/L	193.60 NTU	110.3 mV	26.20 ft	200.00 ml/min
11/15/2023 2:53 PM	14:12	6.98 pH	15.24 °C	1,427.9 µS/cm	2.69 mg/L	177.77 NTU	109.7 mV	26.20 ft	200.00 ml/min
11/15/2023 2:54 PM	15:23	6.99 pH	15.22 °C	1,427.3 µS/cm	2.66 mg/L	185.22 NTU	108.9 mV	26.20 ft	200.00 ml/min

11/15/2023 2:55 PM	16:34	7.13 pH	15.74 °C	0.73 µS/cm	8.82 mg/L	0.00 NTU	106.5 mV	26.20 ft	200.00 ml/min
11/15/2023 2:57 PM	17:45	7.07 pH	15.50 °C	1,428.8 µS/cm	5.07 mg/L	202.73 NTU	106.2 mV	26.20 ft	200.00 ml/min
11/15/2023 2:58 PM	18:56	7.01 pH	15.31 °C	1,431.7 µS/cm	3.10 mg/L	150.50 NTU	105.9 mV	26.20 ft	200.00 ml/min
11/15/2023 2:59 PM	20:07	7.01 pH	15.20 °C	1,431.2 µS/cm	2.83 mg/L	109.20 NTU	105.4 mV	26.20 ft	200.00 ml/min
11/15/2023 3:00 PM	21:18	7.01 pH	15.22 °C	1,428.9 µS/cm	2.78 mg/L	123.95 NTU	105.0 mV	26.20 ft	200.00 ml/min
11/15/2023 3:01 PM	22:29	7.01 pH	15.22 °C	1,431.5 µS/cm	2.74 mg/L	129.95 NTU	104.5 mV	26.20 ft	200.00 ml/min
11/15/2023 3:02 PM	23:40	7.01 pH	15.19 °C	1,434.0 µS/cm	2.71 mg/L	109.56 NTU	103.9 mV	26.20 ft	200.00 ml/min
11/15/2023 3:04 PM	24:51	7.01 pH	15.26 °C	1,426.9 µS/cm	2.70 mg/L	108.42 NTU	103.2 mV	26.20 ft	200.00 ml/min
11/15/2023 3:05 PM	26:02	7.01 pH	15.23 °C	1,431.5 µS/cm	2.68 mg/L	110.11 NTU	102.4 mV	26.20 ft	200.00 ml/min
11/15/2023 3:06 PM	27:13	7.01 pH	15.20 °C	1,427.3 µS/cm	2.67 mg/L	129.91 NTU	101.7 mV	26.20 ft	200.00 ml/min
11/15/2023 3:07 PM	28:24	7.01 pH	15.18 °C	1,428.8 µS/cm	2.66 mg/L	169.38 NTU	101.0 mV	26.20 ft	200.00 ml/min
11/15/2023 3:08 PM	29:35	7.03 pH	15.13 °C	1,429.4 µS/cm	2.70 mg/L	104.91 NTU	100.3 mV	26.20 ft	200.00 ml/min
11/15/2023 3:10 PM	30:46	7.02 pH	15.14 °C	1,427.8 µS/cm	2.69 mg/L	99.76 NTU	99.8 mV	26.20 ft	200.00 ml/min
11/15/2023 3:11 PM	31:57	7.02 pH	15.10 °C	1,431.2 µS/cm	2.70 mg/L	81.96 NTU	99.2 mV	26.20 ft	200.00 ml/min
11/15/2023 3:12 PM	33:08	7.02 pH	15.04 °C	1,431.7 µS/cm	2.70 mg/L	86.53 NTU	98.5 mV	26.20 ft	200.00 ml/min
11/15/2023 3:13 PM	34:19	7.02 pH	15.03 °C	1,431.5 µS/cm	2.66 mg/L	84.61 NTU	97.9 mV	26.20 ft	200.00 ml/min
11/15/2023 3:14 PM	35:30	7.03 pH	15.02 °C	1,433.0 µS/cm	2.67 mg/L	72.68 NTU	97.3 mV	26.20 ft	200.00 ml/min
11/15/2023 3:15 PM	36:41	7.02 pH	15.03 °C	1,429.5 µS/cm	2.67 mg/L	76.22 NTU	96.7 mV	26.20 ft	200.00 ml/min
11/15/2023 3:17 PM	37:52	7.02 pH	15.06 °C	1,430.8 µS/cm	2.68 mg/L	63.23 NTU	96.2 mV	26.20 ft	200.00 ml/min
11/15/2023 3:18 PM	39:03	7.02 pH	15.05 °C	1,430.7 µS/cm	2.67 mg/L	65.38 NTU	95.7 mV	26.20 ft	200.00 ml/min
11/15/2023 3:19 PM	40:14	7.02 pH	15.07 °C	1,432.3 µS/cm	2.66 mg/L	81.73 NTU	95.3 mV	26.20 ft	200.00 ml/min
11/15/2023 3:20 PM	41:25	7.03 pH	15.06 °C	1,433.6 µS/cm	2.71 mg/L	72.66 NTU	94.7 mV	26.20 ft	200.00 ml/min
11/15/2023 3:21 PM	42:36	7.02 pH	15.08 °C	1,431.4 µS/cm	2.72 mg/L	85.64 NTU	94.1 mV	26.20 ft	200.00 ml/min
11/15/2023 3:23 PM	43:47	7.02 pH	15.06 °C	1,433.8 µS/cm	2.70 mg/L	85.23 NTU	93.5 mV	26.20 ft	200.00 ml/min
11/15/2023 3:24 PM	44:58	7.02 pH	15.05 °C	1,431.7 µS/cm	2.67 mg/L	71.25 NTU	92.8 mV	26.20 ft	200.00 ml/min
11/15/2023 3:25 PM	46:09	7.02 pH	15.06 °C	1,432.4 µS/cm	2.68 mg/L	55.24 NTU	92.4 mV	26.20 ft	200.00 ml/min
11/15/2023 3:26 PM	47:20	7.03 pH	15.00 °C	1,433.0 µS/cm	2.70 mg/L	32.53 NTU	91.8 mV	26.20 ft	200.00 ml/min
11/15/2023 3:27 PM	48:31	7.02 pH	15.00 °C	1,432.1 µS/cm	2.69 mg/L	52.90 NTU	91.5 mV	26.20 ft	200.00 ml/min
11/15/2023 3:28 PM	49:42	7.02 pH	14.94 °C	1,433.4 µS/cm	2.70 mg/L	41.88 NTU	91.1 mV	26.20 ft	200.00 ml/min

11/15/2023 3:30 PM	50:53	7.02 pH	14.91 °C	1,433.6 µS/cm	2.68 mg/L	36.91 NTU	90.6 mV	26.20 ft	200.00 ml/min
11/15/2023 3:31 PM	52:04	7.02 pH	14.93 °C	1,433.9 µS/cm	2.68 mg/L	34.00 NTU	90.4 mV	26.20 ft	200.00 ml/min
11/15/2023 3:32 PM	53:15	7.03 pH	14.93 °C	1,434.5 µS/cm	2.70 mg/L	20.63 NTU	89.9 mV	26.20 ft	200.00 ml/min
11/15/2023 3:33 PM	54:26	7.03 pH	14.93 °C	1,431.8 µS/cm	2.71 mg/L	20.32 NTU	89.7 mV	26.20 ft	200.00 ml/min
11/15/2023 3:34 PM	55:37	7.02 pH	14.91 °C	1,434.7 µS/cm	2.74 mg/L	12.43 NTU	89.5 mV	26.20 ft	200.00 ml/min
11/15/2023 3:36 PM	56:48	7.02 pH	14.87 °C	1,433.0 µS/cm	2.73 mg/L	15.32 NTU	89.1 mV	26.20 ft	200.00 ml/min
11/15/2023 3:37 PM	57:59	7.03 pH	14.89 °C	1,432.9 µS/cm	2.68 mg/L	17.89 NTU	88.9 mV	26.20 ft	200.00 ml/min
11/15/2023 3:38 PM	59:10	7.03 pH	14.90 °C	1,430.7 µS/cm	2.64 mg/L	17.44 NTU	88.7 mV	26.20 ft	200.00 ml/min
11/15/2023 3:39 PM	01:00:21	7.03 pH	14.89 °C	1,429.7 µS/cm	2.69 mg/L	25.62 NTU	88.5 mV	26.20 ft	200.00 ml/min
11/15/2023 3:40 PM	01:01:32	7.02 pH	14.88 °C	1,434.4 µS/cm	2.69 mg/L	19.99 NTU	88.3 mV	26.20 ft	200.00 ml/min
11/15/2023 3:41 PM	01:02:43	7.02 pH	14.85 °C	1,434.9 µS/cm	2.70 mg/L	13.15 NTU	87.8 mV	26.20 ft	200.00 ml/min
11/15/2023 3:43 PM	01:03:54	7.02 pH	14.88 °C	1,434.9 µS/cm	2.70 mg/L	10.76 NTU	87.7 mV	26.20 ft	200.00 ml/min

Samples

Sample ID:	Description:

WELL SAMPLE FORM

Project Name:	Factory Street	Date:	11/14/2023
Project Number:	1042-1005	Well ID:	MW-3D
Project Manager:	LN	Field Personnel:	KG

WELL OBSERVATIONS

		Notes
Concrete Pad Condition:	Good	
Cover Secured:	YES	
Cap Secured:	YES	
Custody Seal Number:		

WELL MEASUREMENTS

Well Diameter:	2.0	inches
Screen Length:	5	feet
Total Depth:	55	feet
Screened Interval:	50 - 55	feet
Depth to Water:	26.1	feet
Height of Water Column:	28.9	feet
One Casing Volume:	4.7107	gallons

Factor * Water Column Height Equals Gallons	
Factor	Diameter
0.041	1.0" Well
0.092	1.5" Well
0.163	2.0" Well

Pump Volume by Pump Size:

X .850", 18" = 29 ml

.675", 18" = 15 ml

SAMPLE METHOD

Peristaltic Pump:		Model:		Tubing:			
Bladder Pump:	X	Model:	Geotech Geocontrol	Tubing:	TLPE	Bladder:	Teflon
Bailer:		Material:		Pump Placement (From TOC):	53	feet	
Pump placed in screened interval?:	YES			Tubing Length:	54	feet	

Start Time:	941		
Finish Time:	1027	Volume Purged:	2.5 gallons
Visual Water Quality:	Clear	Waste Drum Id:	4
Recharge Rate:	Adequate	Notes:	

FLOW RATE & STABILIZED WATER LEVEL

SWL #1:	26.1	SWL #2:	26.13	SWL #3:	26.11	Flow Rate:	138 mL/min

Sample Identification: MW-3D

QA/QC:

Sample Time: 1030

7965 East 106th Street, Suite 128 ph: 317 / 570-4919 email: info@acuityes.com
Fishers, IN 46038 fax: 317 / 570-4943 web: www.AcuityES.com

Low-Flow Test Report:

Test Date / Time: 11/14/2023 9:41:02 AM
Project: Factory Street
Operator Name: KG

Location Name: MW-3D **Latitude: 41.620824127496995** **Longitude: -86.70367006220548** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 60 in** **Top of Screen: 50 ft** **Total Depth: 55 ft** **Initial Depth to Water: 26.1 ft**	**Pump Type: Bladder** **Tubing Type: Tlpe** **Tubing Inner Diameter: 0.125 in** **Tubing Length: 54 ft** **Pump Intake From TOC: 53 ft** **Estimated Total Volume Pumped: 6325 ml** **Flow Cell Volume: 130 ml** **Final Flow Rate: 138 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 600** **Serial Number: 707273**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10		
11/14/2023 9:41 AM	00:00	7.02 pH	12.79 °C	1,106.1 µS/cm	0.25 mg/L	133.37 NTU	27.4 mV	26.10 ft	138.00 ml/min
11/14/2023 9:43 AM	02:05	7.04 pH	13.12 °C	1,054.0 µS/cm	0.00 mg/L	81.55 NTU	20.7 mV	26.10 ft	138.00 ml/min
11/14/2023 9:45 AM	04:10	7.04 pH	13.13 °C	1,048.5 µS/cm	0.00 mg/L	73.96 NTU	2.0 mV	26.10 ft	138.00 ml/min
11/14/2023 9:47 AM	06:15	7.06 pH	13.28 °C	1,041.9 µS/cm	0.23 mg/L	67.66 NTU	-8.5 mV	26.10 ft	138.00 ml/min
11/14/2023 9:49 AM	08:20	7.06 pH	13.33 °C	1,039.0 µS/cm	0.42 mg/L	60.82 NTU	-13.9 mV	26.10 ft	138.00 ml/min
11/14/2023 9:51 AM	10:25	7.06 pH	13.42 °C	1,036.6 µS/cm	0.40 mg/L	36.48 NTU	-22.6 mV	26.10 ft	138.00 ml/min
11/14/2023 9:53 AM	12:30	7.07 pH	13.44 °C	1,035.9 µS/cm	0.40 mg/L	37.26 NTU	-23.1 mV	26.10 ft	138.00 ml/min
11/14/2023 9:55 AM	14:35	7.07 pH	13.45 °C	1,034.7 µS/cm	0.39 mg/L	43.68 NTU	-25.9 mV	26.10 ft	138.00 ml/min
11/14/2023 9:57 AM	16:40	7.08 pH	13.42 °C	1,032.8 µS/cm	0.39 mg/L	36.99 NTU	-23.1 mV	26.10 ft	138.00 ml/min
11/14/2023 9:59 AM	18:45	7.08 pH	13.42 °C	1,031.2 µS/cm	0.39 mg/L	34.24 NTU	-29.0 mV	26.10 ft	138.00 ml/min
11/14/2023 10:01 AM	20:50	7.08 pH	13.41 °C	1,028.1 µS/cm	0.39 mg/L	20.49 NTU	-27.8 mV	26.10 ft	138.00 ml/min
11/14/2023 10:03 AM	22:55	7.09 pH	13.39 °C	1,028.2 µS/cm	0.37 mg/L	22.58 NTU	-31.1 mV	26.10 ft	138.00 ml/min
11/14/2023 10:06 AM	25:00	7.09 pH	13.39 °C	1,026.6 µS/cm	0.36 mg/L	32.74 NTU	-29.7 mV	26.10 ft	138.00 ml/min
11/14/2023 10:08 AM	27:05	7.09 pH	13.42 °C	1,026.5 µS/cm	0.35 mg/L	36.11 NTU	-31.8 mV	26.10 ft	138.00 ml/min

11/14/2023 10:10 AM	29:10	7.10 pH	13.43 °C	1,024.2 µS/cm	0.35 mg/L	23.93 NTU	-31.6 mV	26.10 ft	138.00 ml/min
11/14/2023 10:12 AM	31:15	7.10 pH	13.47 °C	1,022.6 µS/cm	0.34 mg/L	28.17 NTU	-33.1 mV	26.10 ft	138.00 ml/min
11/14/2023 10:14 AM	33:20	7.10 pH	13.50 °C	1,022.3 µS/cm	0.34 mg/L	17.78 NTU	-34.2 mV	26.10 ft	138.00 ml/min
11/14/2023 10:16 AM	35:25	7.10 pH	13.48 °C	1,024.1 µS/cm	0.33 mg/L	25.45 NTU	-34.9 mV	26.10 ft	138.00 ml/min
11/14/2023 10:18 AM	37:30	7.10 pH	13.54 °C	1,022.6 µS/cm	0.33 mg/L	19.66 NTU	-35.6 mV	26.10 ft	138.00 ml/min
11/14/2023 10:20 AM	39:35	7.11 pH	13.53 °C	1,021.6 µS/cm	0.33 mg/L	21.24 NTU	-35.2 mV	26.10 ft	138.00 ml/min
11/14/2023 10:22 AM	41:40	7.10 pH	13.53 °C	1,020.2 µS/cm	0.33 mg/L	25.39 NTU	-35.8 mV	26.10 ft	138.00 ml/min
11/14/2023 10:24 AM	43:45	7.11 pH	13.56 °C	1,019.3 µS/cm	0.33 mg/L	23.67 NTU	-36.1 mV	26.10 ft	138.00 ml/min
11/14/2023 10:26 AM	45:50	7.11 pH	13.60 °C	1,019.1 µS/cm	0.31 mg/L	26.22 NTU	-36.1 mV	26.10 ft	138.00 ml/min

Samples

Sample ID:	Description:

WELL SAMPLE FORM

Project Name:	Factory Street	Date:	11/14/2023
Project Number:	1042-1005	Well ID:	MW-4S
Project Manager:	LN	Field Personnel:	KG

WELL OBSERVATIONS

		Notes
Concrete Pad Condition:	Good	
Cover Secured:	YES	
Cap Secured:	YES	
Custody Seal Number:		

WELL MEASUREMENTS

Well Diameter:	2.0	inches
Screen Length:	10	feet
Total Depth:	33	feet
Screened Interval:	23 - 33	feet
Depth to Water:	27.12	feet
Height of Water Column:	5.88	feet
One Casing Volume:	0.95844	gallons

Factor * Water Column Height Equals Gallons	
Factor	Diameter
0.041	1.0" Well
0.092	1.5" Well
0.163	2.0" Well

Pump Volume by Pump Size:

X .850", 18" = 29 ml

.675", 18" = 15 ml

SAMPLE METHOD

Peristaltic Pump:		Model:		Tubing:			
Bladder Pump:	X	Model:	Geotech Geocontrol	Tubing:	TLPE	Bladder:	Teflon
Bailer:		Material:		Pump Placement (From TOC):	31	feet	
Pump placed in screened interval?:	YES			Tubing Length:	31	feet	
Start Time:	1124						
Finish Time:	1142			Volume Purged:	1	gallons	
Visual Water Quality:	Clear			Waste Drum Id:	4		
Recharge Rate:	Adequate			Notes:			

FLOW RATE & STABILIZED WATER LEVEL

SWL #1:	21.1	SWL #2:	21.11	SWL #3:	21.11	Flow Rate:	116 mL/min

Sample Identification: MW-4S

QA/QC:

Sample Time: 1145

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Low-Flow Test Report:

Test Date / Time: 11/14/2023 11:24:56 AM
Project: Factory Street (2)
Operator Name: KG

Location Name: MW-4S **Latitude: 41.62045540757628** **Longitude: -86.70428076767055** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 120 in** **Top of Screen: 23 ft** **Total Depth: 33 ft** **Initial Depth to Water: 27.12 ft**	**Pump Type: Bladder** **Tubing Type: Tlpe** **Tubing Inner Diameter: 0.125 in** **Tubing Length: 31 ft** **Pump Intake From TOC: 31 ft** **Estimated Total Volume Pumped: 1856 ml** **Flow Cell Volume: 130 ml** **Final Flow Rate: 116 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 600** **Serial Number: 707273**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10		
11/14/2023 11:24 AM	00:00	7.02 pH	15.41 °C	1,388.0 µS/cm	0.92 mg/L	221.41 NTU	79.8 mV	27.12 ft	116.00 ml/min
11/14/2023 11:26 AM	02:00	6.98 pH	15.27 °C	1,393.6 µS/cm	0.62 mg/L	132.40 NTU	85.8 mV	27.12 ft	116.00 ml/min
11/14/2023 11:28 AM	04:00	6.97 pH	15.24 °C	1,395.6 µS/cm	0.54 mg/L	91.09 NTU	86.8 mV	27.12 ft	116.00 ml/min
11/14/2023 11:30 AM	06:00	6.96 pH	15.26 °C	1,398.3 µS/cm	0.51 mg/L	78.30 NTU	86.6 mV	27.12 ft	116.00 ml/min
11/14/2023 11:32 AM	08:00	6.95 pH	15.24 °C	1,399.8 µS/cm	0.45 mg/L	54.64 NTU	86.4 mV	27.12 ft	116.00 ml/min
11/14/2023 11:34 AM	10:00	6.95 pH	15.30 °C	1,401.5 µS/cm	0.42 mg/L	51.80 NTU	86.1 mV	27.12 ft	116.00 ml/min
11/14/2023 11:36 AM	12:00	6.94 pH	15.23 °C	1,403.2 µS/cm	0.40 mg/L	36.16 NTU	85.7 mV	27.12 ft	116.00 ml/min
11/14/2023 11:38 AM	14:00	6.94 pH	15.31 °C	1,402.8 µS/cm	0.39 mg/L	35.70 NTU	85.4 mV	27.12 ft	116.00 ml/min
11/14/2023 11:40 AM	16:00	6.94 pH	15.37 °C	1,402.4 µS/cm	0.40 mg/L	34.22 NTU	85.4 mV	27.12 ft	116.00 ml/min

Samples

Sample ID:	Description:

WELL SAMPLE FORM

Project Name:	Factory Street	Date:	11/16/2023
Project Number:	1042-1005	Well ID:	MW-5S
Project Manager:	LN	Field Personnel:	JH

WELL OBSERVATIONS

		Notes
Concrete Pad Condition:	Good	
Cover Secured:	YES	
Cap Secured:	YES	
Custody Seal Number:		

WELL MEASUREMENTS

Well Diameter:	2.0	inches
Screen Length:	10	feet
Total Depth:	30	feet
Screened Interval:	20 - 30	feet
Depth to Water:	24.32	feet
Height of Water Column:	5.68	feet
One Casing Volume:	0.92584	gallons

Factor * Water Column Height Equals Gallons	
Factor	Diameter
0.041	1.0" Well
0.092	1.5" Well
0.163	2.0" Well

Pump Volume by Pump Size:

X .850", 18" = 29 ml

.675", 18" = 15 ml

SAMPLE METHOD

Peristaltic Pump:		Model:		Tubing:		
Bladder Pump:	X	Model:	Geotech Geocontrol	Tubing:	TLPE	Bladder: Teflon
Bailer:		Material:				

Pump Placement (From TOC): 29 feet

Pump placed in screened interval?: YES

Tubing Length: 32 feet

Start Time:	1110		
Finish Time:	1136	Volume Purged:	2 gallons
Visual Water Quality:	Clear	Waste Drum Id:	1
Recharge Rate:	Adequate	Notes:	

FLOW RATE & STABILIZED WATER LEVEL

SWL #1:	24.32	SWL #2:	24.32	SWL #3:	24.32	Flow Rate:	195 mL/min

Sample Identification: MW-5S

QA/QC: None

Sample Time: 1140

Low-Flow Test Report:

Test Date / Time: 11/16/2023 11:10:41 AM
Project: 1042-1005
Operator Name: JHumphress

Location Name: MW-5S **Latitude: 41.62060938313754** **Longitude: -86.70270429932205** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20 ft** **Total Depth: 30 ft** **Initial Depth to Water: 24.32 ft**	**Pump Type: Bladder** **Tubing Type: TLPE** **Tubing Inner Diameter: 0.125 in** **Tubing Length: 32 ft** **Pump Intake From TOC: 29 ft** **Estimated Total Volume Pumped: 4914 ml** **Flow Cell Volume: 130 ml** **Final Flow Rate: 195 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 600** **Serial Number: 1022234**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10		
11/16/2023 11:10 AM	00:00	6.90 pH	15.48 °C	2,228.2 µS/cm	4.48 mg/L	30.99 NTU	152.6 mV	24.32 ft	195.00 ml/min
11/16/2023 11:11 AM	01:12	6.90 pH	15.35 °C	2,174.1 µS/cm	4.33 mg/L	21.58 NTU	150.2 mV	24.32 ft	195.00 ml/min
11/16/2023 11:13 AM	02:24	6.90 pH	15.40 °C	2,109.4 µS/cm	4.19 mg/L	22.56 NTU	148.5 mV	24.32 ft	195.00 ml/min
11/16/2023 11:14 AM	03:36	6.90 pH	15.37 °C	2,078.1 µS/cm	4.08 mg/L	19.80 NTU	146.3 mV	24.32 ft	195.00 ml/min
11/16/2023 11:15 AM	04:48	6.90 pH	15.33 °C	1,995.0 µS/cm	3.93 mg/L	17.78 NTU	143.1 mV	24.32 ft	195.00 ml/min
11/16/2023 11:16 AM	06:00	6.89 pH	15.37 °C	1,956.8 µS/cm	3.77 mg/L	14.51 NTU	140.8 mV	24.32 ft	195.00 ml/min
11/16/2023 11:17 AM	07:12	6.90 pH	15.33 °C	1,903.5 µS/cm	3.67 mg/L	15.13 NTU	136.8 mV	24.32 ft	195.00 ml/min
11/16/2023 11:19 AM	08:24	6.90 pH	15.36 °C	1,851.7 µS/cm	3.53 mg/L	13.16 NTU	134.0 mV	24.32 ft	195.00 ml/min
11/16/2023 11:20 AM	09:36	6.90 pH	15.33 °C	1,806.3 µS/cm	3.40 mg/L	10.41 NTU	130.8 mV	24.32 ft	195.00 ml/min
11/16/2023 11:21 AM	10:48	6.90 pH	15.36 °C	1,761.5 µS/cm	3.26 mg/L	8.72 NTU	128.6 mV	24.32 ft	195.00 ml/min
11/16/2023 11:22 AM	12:00	6.90 pH	15.33 °C	1,718.8 µS/cm	3.18 mg/L	6.78 NTU	126.4 mV	24.32 ft	195.00 ml/min
11/16/2023 11:23 AM	13:12	6.90 pH	15.36 °C	1,659.1 µS/cm	3.09 mg/L	5.96 NTU	124.5 mV	24.32 ft	195.00 ml/min
11/16/2023 11:25 AM	14:24	6.90 pH	15.35 °C	1,647.0 µS/cm	3.00 mg/L	4.40 NTU	122.7 mV	24.32 ft	195.00 ml/min
11/16/2023 11:26 AM	15:36	6.90 pH	15.33 °C	1,602.0 µS/cm	2.91 mg/L	4.50 NTU	121.1 mV	24.32 ft	195.00 ml/min

11/16/2023 11:27 AM	16:48	6.89 pH	15.34 °C	1,567.1 µS/cm	2.79 mg/L	2.93 NTU	120.5 mV	24.32 ft	195.00 ml/min
11/16/2023 11:28 AM	18:00	6.90 pH	15.29 °C	1,524.2 µS/cm	2.68 mg/L	1.17 NTU	118.3 mV	24.32 ft	195.00 ml/min
11/16/2023 11:29 AM	19:12	6.89 pH	15.40 °C	1,493.2 µS/cm	2.60 mg/L	1.51 NTU	117.3 mV	24.32 ft	195.00 ml/min
11/16/2023 11:31 AM	20:24	6.90 pH	15.29 °C	1,463.4 µS/cm	2.53 mg/L	0.00 NTU	116.0 mV	24.32 ft	195.00 ml/min
11/16/2023 11:32 AM	21:36	6.89 pH	15.35 °C	1,442.4 µS/cm	2.46 mg/L	0.00 NTU	115.5 mV	24.32 ft	195.00 ml/min
11/16/2023 11:33 AM	22:48	6.90 pH	15.25 °C	1,415.6 µS/cm	2.44 mg/L	0.00 NTU	114.6 mV	24.32 ft	195.00 ml/min
11/16/2023 11:34 AM	24:00	6.90 pH	15.28 °C	1,385.6 µS/cm	2.43 mg/L	0.00 NTU	114.0 mV	24.32 ft	195.00 ml/min
11/16/2023 11:35 AM	25:12	6.88 pH	15.30 °C	1,377.3 µS/cm	2.42 mg/L	0.00 NTU	114.5 mV	24.32 ft	195.00 ml/min

Samples

Sample ID:	Description:

WELL SAMPLE FORM

Project Name:	Factory Street	Date:	11/14/2023
Project Number:	1042-1005	Well ID:	MW-5D
Project Manager:	LN	Field Personnel:	MG

WELL OBSERVATIONS

		Notes
Concrete Pad Condition:	Good	
Cover Secured:	YES	
Cap Secured:	YES	
Custody Seal Number:		

WELL MEASUREMENTS

Well Diameter:	2.0	inches
Screen Length:	10	feet
Total Depth:	54	feet
Screened Interval:	44 - 54	feet
Depth to Water:	24.25	feet
Height of Water Column:	29.75	feet
One Casing Volume:	4.84925	gallons

Factor * Water Column Height Equals Gallons	
Factor	Diameter
0.041	1.0" Well
0.092	1.5" Well
0.163	2.0" Well

Pump Volume by Pump Size:

X .850", 18" = 29 ml

.675", 18" = 15 ml

SAMPLE METHOD

Peristaltic Pump:		Model:		Tubing:		
Bladder Pump:	X	Model:	Geotech Geocontrol	Tubing:	TLPE	Bladder: Teflon
Bailer:		Material:				

Pump Placement (From TOC): 52 feet

Pump placed in screened interval?: YES

Tubing Length: 57 feet

Start Time:	1350		
Finish Time:	1505	Volume Purged:	2 gallons
Visual Water Quality:	Clear	Waste Drum Id:	4
Recharge Rate:	Adequate	Notes:	

FLOW RATE & STABILIZED WATER LEVEL

SWL #1:	24.25	SWL #2:	24.25	SWL #3:	24.25	Flow Rate:	110 mL/min

Sample Identification: MW-5D

QA/QC: N/A

Sample Time: 1510

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Low-Flow Test Report:

Test Date / Time: 11/14/2023 1:56:41 PM
Project: Factory Street Q4 2023
Operator Name: M. Grzegorek

Location Name: MW-5D **Latitude: 41.620577154720046** **Longitude: -86.70277906589834** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 44 ft** **Total Depth: 54 ft** **Initial Depth to Water: 24.25 ft**	**Pump Type: Bladder** **Tubing Type: TLPE** **Tubing Inner Diameter: 0.125 in** **Tubing Length: 57 ft** **Pump Intake From TOC: 52 ft** **Estimated Total Volume Pumped: 7674.333 ml** **Flow Cell Volume: 130 ml** **Final Flow Rate: 110 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 600** **Serial Number: 867255**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10	+/- 10 %	+/- 10		
11/14/2023 1:56 PM	00:00	7.44 pH	16.23 °C	961.76 µS/cm	4.05 mg/L	248.55 NTU	42.9 mV	24.25 ft	110.00 ml/min
11/14/2023 1:59 PM	02:41	7.37 pH	15.16 °C	971.37 µS/cm	2.67 mg/L	133.18 NTU	-62.9 mV	24.25 ft	110.00 ml/min
11/14/2023 2:02 PM	05:22	7.35 pH	15.00 °C	968.26 µS/cm	3.15 mg/L	92.86 NTU	-73.7 mV	24.25 ft	110.00 ml/min
11/14/2023 2:04 PM	08:03	7.35 pH	14.86 °C	963.56 µS/cm	3.37 mg/L	102.55 NTU	-78.8 mV	24.25 ft	110.00 ml/min
11/14/2023 2:07 PM	10:44	7.35 pH	14.87 °C	955.69 µS/cm	3.59 mg/L	75.31 NTU	-82.3 mV	24.25 ft	110.00 ml/min
11/14/2023 2:10 PM	13:25	7.36 pH	14.82 °C	950.34 µS/cm	4.06 mg/L	86.68 NTU	-80.6 mV	24.25 ft	110.00 ml/min
11/14/2023 2:12 PM	16:06	7.37 pH	14.77 °C	939.27 µS/cm	4.64 mg/L	76.39 NTU	-73.2 mV	24.25 ft	110.00 ml/min
11/14/2023 2:15 PM	18:47	7.38 pH	14.79 °C	936.41 µS/cm	5.07 mg/L	71.92 NTU	-74.6 mV	24.25 ft	110.00 ml/min
11/14/2023 2:18 PM	21:28	7.39 pH	14.86 °C	932.83 µS/cm	5.38 mg/L	68.10 NTU	-79.0 mV	24.25 ft	110.00 ml/min
11/14/2023 2:20 PM	24:09	7.40 pH	14.91 °C	928.20 µS/cm	5.53 mg/L	51.19 NTU	-81.3 mV	24.25 ft	110.00 ml/min
11/14/2023 2:23 PM	26:50	7.41 pH	15.04 °C	929.15 µS/cm	5.68 mg/L	54.56 NTU	-82.8 mV	24.25 ft	110.00 ml/min
11/14/2023 2:26 PM	29:31	7.42 pH	14.93 °C	926.73 µS/cm	5.94 mg/L	59.80 NTU	-73.9 mV	24.25 ft	110.00 ml/min
11/14/2023 2:28 PM	32:12	7.42 pH	14.80 °C	926.52 µS/cm	6.16 mg/L	81.59 NTU	-70.7 mV	24.25 ft	110.00 ml/min
11/14/2023 2:31 PM	34:53	7.43 pH	14.81 °C	925.73 µS/cm	6.22 mg/L	96.98 NTU	-73.2 mV	24.25 ft	110.00 ml/min

11/14/2023 2:34 PM	37:34	7.43 pH	14.78 °C	926.73 µS/cm	6.13 mg/L	168.32 NTU	-75.9 mV	24.25 ft	110.00 ml/min
11/14/2023 2:36 PM	40:15	7.44 pH	14.75 °C	919.05 µS/cm	6.55 mg/L	173.43 NTU	-72.9 mV	24.25 ft	110.00 ml/min
11/14/2023 2:39 PM	42:56	7.44 pH	14.75 °C	915.11 µS/cm	6.80 mg/L	68.86 NTU	-67.7 mV	24.25 ft	110.00 ml/min
11/14/2023 2:42 PM	45:37	7.44 pH	14.74 °C	912.76 µS/cm	6.98 mg/L	113.23 NTU	-68.7 mV	24.25 ft	110.00 ml/min
11/14/2023 2:44 PM	48:18	7.45 pH	14.74 °C	904.97 µS/cm	7.19 mg/L	65.63 NTU	-71.4 mV	24.25 ft	110.00 ml/min
11/14/2023 2:47 PM	50:59	7.46 pH	14.75 °C	907.28 µS/cm	7.36 mg/L	66.18 NTU	-75.5 mV	24.25 ft	110.00 ml/min
11/14/2023 2:50 PM	53:40	7.46 pH	14.70 °C	912.66 µS/cm	7.60 mg/L	73.42 NTU	-75.0 mV	24.25 ft	110.00 ml/min
11/14/2023 2:53 PM	56:21	7.46 pH	14.72 °C	912.91 µS/cm	7.79 mg/L	71.29 NTU	-73.7 mV	24.25 ft	110.00 ml/min
11/14/2023 2:55 PM	59:02	7.47 pH	14.75 °C	912.70 µS/cm	7.90 mg/L	57.00 NTU	-75.2 mV	24.25 ft	110.00 ml/min
11/14/2023 2:58 PM	01:01:43	7.47 pH	14.74 °C	912.92 µS/cm	8.08 mg/L	55.93 NTU	-73.8 mV	24.25 ft	110.00 ml/min
11/14/2023 3:01 PM	01:04:24	7.47 pH	14.74 °C	908.71 µS/cm	8.19 mg/L	46.81 NTU	-74.5 mV	24.25 ft	110.00 ml/min
11/14/2023 3:03 PM	01:07:05	7.47 pH	14.75 °C	908.05 µS/cm	8.26 mg/L	34.80 NTU	-75.9 mV	24.25 ft	110.00 ml/min
11/14/2023 3:06 PM	01:09:46	7.47 pH	14.72 °C	906.28 µS/cm	8.35 mg/L	39.80 NTU	-75.5 mV	24.25 ft	110.00 ml/min

Samples

Sample ID:	Description:
MW-5D	

WELL SAMPLE FORM

Project Name:	Factory Street	Date:	11/14/2023
Project Number:	1042-1005	Well ID:	MW-6S
Project Manager:	LN	Field Personnel:	MG

WELL OBSERVATIONS

Concrete Pad Condition:	Good	Notes
Cover Secured:	YES	
Cap Secured:	YES	
Custody Seal Number:		

WELL MEASUREMENTS

Well Diameter:	2.0	inches
Screen Length:	10	feet
Total Depth:	30	feet
Screened Interval:	20 - 30	feet
Depth to Water:	24.69	feet
Height of Water Column:	5.31	feet
One Casing Volume:	0.86553	gallons

Factor * Water Column Height Equals Gallons	
Factor	Diameter
0.041	1.0" Well
0.092	1.5" Well
0.163	2.0" Well

Pump Volume by Pump Size:

X .850", 18" = 29 ml

.675", 18" = 15 ml

SAMPLE METHOD

Peristaltic Pump:		Model:		Tubing:		
Bladder Pump:	X	Model:	Geotech Geocontrol	Tubing:	TLPE	Bladder: Teflon
Bailer:		Material:				

Pump Placement (From TOC): 28 feet

Pump placed in screened interval?: YES

Tubing Length: 31 feet

Start Time:	1105		
Finish Time:	1205	Volume Purged:	1.5 gallons
Visual Water Quality:	Clear	Waste Drum Id:	4
Recharge Rate:	Adequate	Notes:	

FLOW RATE & STABILIZED WATER LEVEL

SWL #1:	24.69	SWL #2:	24.69	SWL #3:	24.69	Flow Rate:	85 mL/min

Sample Identification: MW-6S

QA/QC: N/A

Sample Time: 1210

7965 East 106th Street, Suite 128 ph: 317 / 570-4919 email: info@acuityes.com
Fishers, IN 46038 fax: 317 / 570-4943 web: www.AcuityES.com

Low-Flow Test Report:

Test Date / Time: 11/14/2023 11:20:29 AM
Project: Factory Street Q4 2023
Operator Name: M. Grzegorek

Location Name: MW-6S **Latitude: 41.62131868855473** **Longitude: -86.70331216341877** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20 ft** **Total Depth: 30 ft** **Initial Depth to Water: 24.69 ft**	**Pump Type: Bladder** **Tubing Type: TLPE** **Tubing Inner Diameter: 0.125 in** **Tubing Length: 31 ft** **Pump Intake From TOC: 28 ft** **Estimated Total Volume Pumped: 3506.25 ml** **Flow Cell Volume: 130 ml** **Final Flow Rate: 85 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 600** **Serial Number: 867255**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10	+/- 10 %	+/- 10		
11/14/2023 11:20 AM	00:00	7.39 pH	17.87 °C	1,130.9 µS/cm	4.47 mg/L	24.73 NTU	-36.1 mV	24.69 ft	85.00 ml/min
11/14/2023 11:23 AM	02:45	7.37 pH	16.92 °C	1,100.2 µS/cm	6.93 mg/L	47.85 NTU	-15.6 mV	24.69 ft	85.00 ml/min
11/14/2023 11:25 AM	05:30	7.39 pH	16.72 °C	1,093.8 µS/cm	7.44 mg/L	56.99 NTU	21.1 mV	24.69 ft	85.00 ml/min
11/14/2023 11:28 AM	08:15	7.39 pH	16.19 °C	1,101.4 µS/cm	7.49 mg/L	56.76 NTU	61.1 mV	24.69 ft	85.00 ml/min
11/14/2023 11:31 AM	11:00	7.40 pH	16.31 °C	1,092.1 µS/cm	7.55 mg/L	54.34 NTU	79.4 mV	24.69 ft	85.00 ml/min
11/14/2023 11:34 AM	13:45	7.41 pH	16.33 °C	1,095.8 µS/cm	7.60 mg/L	46.96 NTU	91.7 mV	24.69 ft	85.00 ml/min
11/14/2023 11:36 AM	16:30	7.41 pH	16.32 °C	1,081.7 µS/cm	7.68 mg/L	39.86 NTU	99.2 mV	24.69 ft	85.00 ml/min
11/14/2023 11:39 AM	19:15	7.42 pH	16.30 °C	1,070.0 µS/cm	7.67 mg/L	32.78 NTU	107.1 mV	24.69 ft	85.00 ml/min
11/14/2023 11:42 AM	22:00	7.42 pH	16.53 °C	1,066.1 µS/cm	7.74 mg/L	30.30 NTU	112.7 mV	24.69 ft	85.00 ml/min
11/14/2023 11:45 AM	24:45	7.42 pH	16.52 °C	1,060.8 µS/cm	7.73 mg/L	28.39 NTU	120.1 mV	24.69 ft	85.00 ml/min
11/14/2023 11:47 AM	27:30	7.43 pH	16.39 °C	1,055.8 µS/cm	7.73 mg/L	21.60 NTU	125.9 mV	24.69 ft	85.00 ml/min
11/14/2023 11:50 AM	30:15	7.42 pH	16.35 °C	1,054.5 µS/cm	7.71 mg/L	23.42 NTU	130.5 mV	24.69 ft	85.00 ml/min
11/14/2023 11:53 AM	33:00	7.43 pH	16.40 °C	1,049.1 µS/cm	7.75 mg/L	16.91 NTU	133.7 mV	24.69 ft	85.00 ml/min
11/14/2023 11:56 AM	35:45	7.43 pH	16.29 °C	1,041.2 µS/cm	7.76 mg/L	17.76 NTU	137.4 mV	24.69 ft	85.00 ml/min

11/14/2023 11:58 AM	38:30	7.43 pH	16.45 °C	1,037.7 µS/cm	7.72 mg/L	13.40 NTU	142.1 mV	24.69 ft	85.00 ml/min
11/14/2023 12:01 PM	41:15	7.43 pH	16.49 °C	1,034.9 µS/cm	7.71 mg/L	12.53 NTU	142.5 mV	24.69 ft	85.00 ml/min

Samples

Sample ID:	Description:
MW-6S	

WELL SAMPLE FORM

Project Name:	Factory Street	Date:	11/14/2023
Project Number:	1042-1005	Well ID:	MW-6D
Project Manager:	LN	Field Personnel:	KG

WELL OBSERVATIONS

		Notes
Concrete Pad Condition:	Good	
Cover Secured:	YES	
Cap Secured:	YES	
Custody Seal Number:		

WELL MEASUREMENTS

Well Diameter:	2.0	inches
Screen Length:	5	feet
Total Depth:	55	feet
Screened Interval:	50 - 55	feet
Depth to Water:	24.71	feet
Height of Water Column:	30.29	feet
One Casing Volume:	4.93727	gallons

Factor * Water Column Height Equals Gallons	
Factor	Diameter
0.041	1.0" Well
0.092	1.5" Well
0.163	2.0" Well

Pump Volume by Pump Size:

X .850", 18" = 29 ml

.675", 18" = 15 ml

SAMPLE METHOD

Peristaltic Pump:		Model:		Tubing:			
Bladder Pump:	X	Model:	Geotech Geocontrol	Tubing:	TLPE	Bladder:	Teflon
Bailer:		Material:		Pump Placement (From TOC):	53	feet	
Pump placed in screened interval?:	YES	Tubing Length:	55	feet			

Start Time:	1440		
Finish Time:	1513	Volume Purged:	2.25 gallons
Visual Water Quality:	Clear	Waste Drum Id:	4
Recharge Rate:	Adequate	Turbidity increased although water remained visibly clear. Sampled with stable turbidity reading	

FLOW RATE & STABILIZED WATER LEVEL

SWL #1:	24.72	SWL #2:	24.74	SWL #3:	24.74	Flow Rate:	134 mL/min

Sample Identification: MW-6D

QA/QC:

Sample Time: 1515

7965 East 106th Street, Suite 128 ph: 317 / 570-4919 email: info@acuityes.com
Fishers, IN 46038 fax: 317 / 570-4943 web: www.AcuityES.com

Low-Flow Test Report:

Test Date / Time: 11/14/2023 2:40:07 PM
Project: Factory Street (4)
Operator Name: KG

Location Name: MW-6D **Latitude: 41.62150461230578** **Longitude: -86.70374943882851** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 60 in** **Top of Screen: 50 ft** **Total Depth: 55 ft** **Initial Depth to Water: 24.71 ft**	**Pump Type: Bladder** **Tubing Type: Tlpe** **Tubing Inner Diameter: 0.125 in** **Tubing Length: 55 ft** **Pump Intake From TOC: 53 ft** **Estimated Total Volume Pumped: 4355 ml** **Flow Cell Volume: 130 ml** **Final Flow Rate: 134 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 600** **Serial Number: 707273**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10		
11/14/2023 2:40 PM	00:00	7.37 pH	16.71 °C	1,082.7 µS/cm	2.51 mg/L	67.36 NTU	-42.3 mV	24.71 ft	134.00 ml/min
11/14/2023 2:42 PM	02:10	7.26 pH	15.30 °C	1,104.5 µS/cm	0.74 mg/L	81.46 NTU	-45.4 mV	24.71 ft	134.00 ml/min
11/14/2023 2:44 PM	04:20	7.26 pH	14.90 °C	1,102.2 µS/cm	0.57 mg/L	58.81 NTU	-45.8 mV	24.71 ft	134.00 ml/min
11/14/2023 2:46 PM	06:30	7.25 pH	14.91 °C	1,098.5 µS/cm	0.42 mg/L	68.52 NTU	-45.2 mV	24.71 ft	134.00 ml/min
11/14/2023 2:48 PM	08:40	7.26 pH	14.76 °C	1,095.2 µS/cm	0.39 mg/L	59.21 NTU	-45.1 mV	24.71 ft	134.00 ml/min
11/14/2023 2:50 PM	10:50	7.26 pH	14.77 °C	1,091.7 µS/cm	0.37 mg/L	66.45 NTU	-45.0 mV	24.71 ft	134.00 ml/min
11/14/2023 2:53 PM	13:00	7.27 pH	14.65 °C	1,088.2 µS/cm	0.34 mg/L	68.95 NTU	-46.1 mV	24.71 ft	134.00 ml/min
11/14/2023 2:55 PM	15:10	7.26 pH	14.65 °C	1,085.1 µS/cm	0.32 mg/L	73.79 NTU	-46.2 mV	24.71 ft	134.00 ml/min
11/14/2023 2:57 PM	17:20	7.27 pH	14.57 °C	1,082.4 µS/cm	0.30 mg/L	77.87 NTU	-47.2 mV	24.71 ft	134.00 ml/min
11/14/2023 2:59 PM	19:30	7.26 pH	14.60 °C	1,078.3 µS/cm	0.29 mg/L	93.31 NTU	-47.5 mV	24.71 ft	134.00 ml/min
11/14/2023 3:01 PM	21:40	7.27 pH	14.52 °C	1,069.8 µS/cm	0.29 mg/L	106.36 NTU	-48.6 mV	24.71 ft	134.00 ml/min
11/14/2023 3:03 PM	23:50	7.27 pH	14.47 °C	1,084.3 µS/cm	0.28 mg/L	217.05 NTU	-49.1 mV	24.71 ft	134.00 ml/min
11/14/2023 3:06 PM	26:00	7.27 pH	14.39 °C	1,082.2 µS/cm	0.27 mg/L	238.89 NTU	-50.0 mV	24.71 ft	134.00 ml/min
11/14/2023 3:08 PM	28:10	7.27 pH	14.37 °C	1,079.9 µS/cm	0.27 mg/L	289.96 NTU	-49.3 mV	24.71 ft	134.00 ml/min

11/14/2023 3:10 PM	30:20	7.28 pH	14.32 °C	1,077.9 µS/cm	0.26 mg/L	283.17 NTU	-50.4 mV	24.71 ft	134.00 ml/min
11/14/2023 3:12 PM	32:30	7.27 pH	14.34 °C	1,075.1 µS/cm	0.25 mg/L	308.24 NTU	-49.7 mV	24.71 ft	134.00 ml/min

Samples

Sample ID:	Description:

WELL SAMPLE FORM

Project Name:	Factory Street	Date:	11/16/2023
Project Number:	1042-1005	Well ID:	MW-7S
Project Manager:	LN	Field Personnel:	MG

WELL OBSERVATIONS

		Notes
Concrete Pad Condition:	Good	
Cover Secured:	YES	
Cap Secured:	YES	
Custody Seal Number:		

WELL MEASUREMENTS

Well Diameter:	2.0	inches
Screen Length:	10	feet
Total Depth:	30	feet
Screened Interval:	20 - 30	feet
Depth to Water:	26.41	feet
Height of Water Column:	3.59	feet
One Casing Volume:	0.58517	gallons

Factor * Water Column Height Equals Gallons	
Factor	Diameter
0.041	1.0" Well
0.092	1.5" Well
0.163	2.0" Well

Pump Volume by Pump Size:

X .850", 18" = 29 ml

.675", 18" = 15 ml

SAMPLE METHOD

Peristaltic Pump:		Model:		Tubing:		
Bladder Pump:	X	Model:	Geotech Geocontrol	Tubing:	TLPE	Bladder: Teflon
Bailer:		Material:				

Pump Placement (From TOC): 28 feet

Pump placed in screened interval?: YES

Tubing Length: 31 feet

Start Time:	1245		
Finish Time:	1345	Volume Purged:	1.25 gallons
Visual Water Quality:	Clear	Waste Drum Id:	1
Recharge Rate:	Adequate	Notes:	

FLOW RATE & STABILIZED WATER LEVEL

SWL #1:	26.41	SWL #2:	26.41	SWL #3:	26.41	Flow Rate:	70 mL/min

Sample Identification: MW-7S

QA/QC: N/A

Sample Time: 1350

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Low-Flow Test Report:

Test Date / Time: 11/16/2023 1:16:14 PM
Project: Factory Street Q4 2023
Operator Name: M. Grzegorek

Location Name: MW-7S **Latitude: 41.62128106694839** **Longitude: -86.70419929557173** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20 ft** **Total Depth: 30 ft** **Initial Depth to Water: 26.41 ft**	**Pump Type: Bladder** **Tubing Type: TLPE** **Tubing Inner Diameter: 0.125 in** **Tubing Length: 31 ft** **Pump Intake From TOC: 28 ft** **Estimated Total Volume Pumped: 2100 ml** **Flow Cell Volume: 130 ml** **Final Flow Rate: 70 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 600** **Serial Number: 867255**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10	+/- 10 %	+/- 10		
11/16/2023 1:16 PM	00:00	7.10 pH	18.71 °C	1,298.7 µS/cm	8.06 mg/L	474.52 NTU	205.7 mV	26.41 ft	70.00 ml/min
11/16/2023 1:19 PM	03:20	7.06 pH	17.78 °C	1,288.0 µS/cm	7.97 mg/L	378.82 NTU	209.8 mV	26.41 ft	70.00 ml/min
11/16/2023 1:22 PM	06:40	7.03 pH	17.46 °C	1,286.8 µS/cm	8.01 mg/L	436.10 NTU	213.6 mV	26.41 ft	70.00 ml/min
11/16/2023 1:26 PM	10:00	7.02 pH	17.35 °C	1,286.8 µS/cm	8.01 mg/L	371.18 NTU	215.9 mV	26.41 ft	70.00 ml/min
11/16/2023 1:29 PM	13:20	7.04 pH	17.24 °C	1,285.9 µS/cm	8.09 mg/L	204.97 NTU	217.5 mV	26.41 ft	70.00 ml/min
11/16/2023 1:32 PM	16:40	7.05 pH	17.25 °C	1,285.9 µS/cm	8.12 mg/L	199.36 NTU	218.6 mV	26.41 ft	70.00 ml/min
11/16/2023 1:36 PM	20:00	7.07 pH	17.19 °C	1,285.9 µS/cm	8.17 mg/L	178.89 NTU	219.2 mV	26.41 ft	70.00 ml/min
11/16/2023 1:39 PM	23:20	7.09 pH	17.21 °C	1,286.3 µS/cm	8.21 mg/L	155.39 NTU	219.8 mV	26.41 ft	70.00 ml/min
11/16/2023 1:42 PM	26:40	7.10 pH	17.21 °C	1,286.8 µS/cm	8.23 mg/L	151.96 NTU	220.4 mV	26.41 ft	70.00 ml/min
11/16/2023 1:46 PM	30:00	7.11 pH	17.16 °C	1,286.3 µS/cm	8.24 mg/L	159.03 NTU	221.1 mV	26.41 ft	70.00 ml/min

Samples

Sample ID:	Description:
MW-7S	

WELL SAMPLE FORM

Project Name:	Factory Street	Date:	11/16/2023
Project Number:	1042-1005	Well ID:	MW-7I
Project Manager:	LN	Field Personnel:	MG

WELL OBSERVATIONS

Concrete Pad Condition:	Good	Notes
Cover Secured:	YES	
Cap Secured:	YES	
Custody Seal Number:		

WELL MEASUREMENTS

Well Diameter:	2.0	inches
Screen Length:	10	feet
Total Depth:	43	feet
Screened Interval:	33 - 43	feet
Depth to Water:	26.58	feet
Height of Water Column:	16.42	feet
One Casing Volume:	2.67646	gallons

Factor * Water Column Height Equals Gallons	
Factor	Diameter
0.041	1.0" Well
0.092	1.5" Well
0.163	2.0" Well

Pump Volume by Pump Size:

X .850", 18" = 29 ml

.675", 18" = 15 ml

SAMPLE METHOD

Peristaltic Pump:		Model:		Tubing:		
Bladder Pump:	X	Model:	Geotech Geocontrol	Tubing:	TLPE	Bladder: Teflon
Bailer:		Material:				

Pump Placement (From TOC): 41 feet

Pump placed in screened interval?: YES

Tubing Length: 43 feet

Start Time:	1605		
Finish Time:	1450	Volume Purged:	1.25 gallons
Visual Water Quality:	Clear	Waste Drum Id:	1
Recharge Rate:	Adequate	Notes:	

FLOW RATE & STABILIZED WATER LEVEL

SWL #1:	26.58	SWL #2:	26.58	SWL #3:	26.58	Flow Rate:	110 mL/min

Sample Identification: MW-7I

QA/QC: DUP-01

Sample Time: 1455

Low-Flow Test Report:

Test Date / Time: 11/16/2023 2:20:02 PM
Project: Factory Street Q4 2023
Operator Name: M. Grzegorek

Location Name: MW-7I **Latitude: 41.621273146049894** **Longitude: -86.70422527947156** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 33 ft** **Total Depth: 43 ft** **Initial Depth to Water: 26.58 ft**	**Pump Type: Bladder** **Tubing Type: TLPE** **Tubing Inner Diameter: 0.125 in** **Tubing Length: 43 ft** **Pump Intake From TOC: 41 ft** **Estimated Total Volume Pumped: 3146 ml** **Flow Cell Volume: 130 ml** **Final Flow Rate: 110 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 600** **Serial Number: 867255**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10	+/- 10 %	+/- 10		
11/16/2023 2:20 PM	00:00	7.22 pH	16.37 °C	931.69 µS/cm	5.32 mg/L	70.21 NTU	199.3 mV	26.58 ft	110.00 ml/min
11/16/2023 2:22 PM	02:23	7.18 pH	16.18 °C	931.03 µS/cm	5.18 mg/L	45.00 NTU	197.2 mV	26.58 ft	110.00 ml/min
11/16/2023 2:24 PM	04:46	7.17 pH	15.97 °C	926.96 µS/cm	5.05 mg/L	31.06 NTU	196.0 mV	26.58 ft	110.00 ml/min
11/16/2023 2:27 PM	07:09	7.17 pH	15.80 °C	924.04 µS/cm	5.06 mg/L	31.79 NTU	195.0 mV	26.58 ft	110.00 ml/min
11/16/2023 2:29 PM	09:32	7.16 pH	15.70 °C	920.78 µS/cm	5.07 mg/L	25.97 NTU	194.2 mV	26.58 ft	110.00 ml/min
11/16/2023 2:31 PM	11:55	7.17 pH	15.66 °C	916.89 µS/cm	5.10 mg/L	28.51 NTU	192.9 mV	26.58 ft	110.00 ml/min
11/16/2023 2:34 PM	14:18	7.18 pH	15.56 °C	911.94 µS/cm	5.12 mg/L	21.68 NTU	192.4 mV	26.58 ft	110.00 ml/min
11/16/2023 2:36 PM	16:41	7.18 pH	15.54 °C	907.24 µS/cm	5.15 mg/L	20.72 NTU	192.0 mV	26.58 ft	110.00 ml/min
11/16/2023 2:39 PM	19:04	7.20 pH	15.51 °C	899.25 µS/cm	5.19 mg/L	17.69 NTU	191.5 mV	26.58 ft	110.00 ml/min
11/16/2023 2:41 PM	21:27	7.21 pH	15.41 °C	895.61 µS/cm	5.24 mg/L	21.23 NTU	191.2 mV	26.58 ft	110.00 ml/min
11/16/2023 2:43 PM	23:50	7.21 pH	15.46 °C	889.61 µS/cm	5.27 mg/L	16.97 NTU	190.7 mV	26.58 ft	110.00 ml/min
11/16/2023 2:46 PM	26:13	7.22 pH	15.41 °C	886.39 µS/cm	5.30 mg/L	18.11 NTU	190.5 mV	26.58 ft	110.00 ml/min
11/16/2023 2:48 PM	28:36	7.23 pH	15.43 °C	882.09 µS/cm	5.31 mg/L	16.85 NTU	190.5 mV	26.58 ft	110.00 ml/min

Samples

Sample ID:	Description:
MW-7I	

WELL SAMPLE FORM

Project Name:	Factory Street	Date:	11/14/2023
Project Number:	1042-1005	Well ID:	MW-7D
Project Manager:	LN	Field Personnel:	MG

WELL OBSERVATIONS

		Notes
Concrete Pad Condition:	Good	
Cover Secured:	YES	
Cap Secured:	YES	
Custody Seal Number:		

WELL MEASUREMENTS

Well Diameter:	2.0	inches
Screen Length:	5	feet
Total Depth:	55	feet
Screened Interval:	50 - 55	feet
Depth to Water:	26.39	feet
Height of Water Column:	28.61	feet
One Casing Volume:	4.66343	gallons

Factor * Water Column Height Equals Gallons	
Factor	Diameter
0.041	1.0" Well
0.092	1.5" Well
0.163	2.0" Well

Pump Volume by Pump Size:

X .850", 18" = 29 ml

.675", 18" = 15 ml

SAMPLE METHOD

Peristaltic Pump:		Model:		Tubing:		
Bladder Pump:	X	Model:	Geotech Geocontrol	Tubing:	TLPE	Bladder: Teflon
Bailer:		Material:				

Pump Placement (From TOC): 53 feet

Pump placed in screened interval?: YES

Tubing Length: 58 feet

Start Time:	1550		
Finish Time:	1625	Volume Purged:	1.25 gallons
Visual Water Quality:	Clear	Waste Drum Id:	4
Recharge Rate:	Adequate	Notes:	

FLOW RATE & STABILIZED WATER LEVEL

SWL #1:	26.39	SWL #2:	26.39	SWL #3:	26.39	Flow Rate:	110 mL/min

Sample Identification: MW-7D

QA/QC: N/A

Sample Time: 1630

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Fishers, IN 46038 fax: 317 / 570-4943 web: www.AcuityES.com

Low-Flow Test Report:

Test Date / Time: 11/14/2023 3:57:53 PM
Project: Factory Street Q4 2023
Operator Name: M. Grzegorek

Location Name: MW-7D **Latitude: 41.62125965118579** **Longitude: -86.70420616873233** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 50 ft** **Total Depth: 55 ft** **Initial Depth to Water: 26.39 ft**	**Pump Type: Bladder** **Tubing Type: TLPE** **Tubing Inner Diameter: 0.125 in** **Tubing Length: 58 ft** **Pump Intake From TOC: 53 ft** **Estimated Total Volume Pumped: 3287.167 ml** **Flow Cell Volume: 130 ml** **Final Flow Rate: 110 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 600** **Serial Number: 867255**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10	+/- 10 %	+/- 10		
11/14/2023 3:57 PM	00:00	7.29 pH	14.85 °C	1,047.6 µS/cm	2.30 mg/L	127.68 NTU	-152.5 mV	26.39 ft	110.00 ml/min
11/14/2023 4:00 PM	02:43	7.28 pH	14.64 °C	1,045.6 µS/cm	1.38 mg/L	20.45 NTU	-159.6 mV	26.39 ft	110.00 ml/min
11/14/2023 4:03 PM	05:26	7.28 pH	14.52 °C	1,035.2 µS/cm	1.61 mg/L	18.43 NTU	-154.2 mV	26.39 ft	110.00 ml/min
11/14/2023 4:06 PM	08:09	7.29 pH	14.47 °C	1,030.5 µS/cm	2.19 mg/L	15.60 NTU	-148.1 mV	26.39 ft	110.00 ml/min
11/14/2023 4:08 PM	10:52	7.30 pH	14.45 °C	1,026.7 µS/cm	2.70 mg/L	20.19 NTU	-141.5 mV	26.39 ft	110.00 ml/min
11/14/2023 4:11 PM	13:35	7.31 pH	14.45 °C	1,026.8 µS/cm	3.17 mg/L	21.70 NTU	-138.0 mV	26.39 ft	110.00 ml/min
11/14/2023 4:14 PM	16:18	7.32 pH	14.37 °C	1,027.4 µS/cm	3.52 mg/L	25.63 NTU	-134.6 mV	26.39 ft	110.00 ml/min
11/14/2023 4:16 PM	19:01	7.33 pH	14.37 °C	1,021.8 µS/cm	4.01 mg/L	19.49 NTU	-132.0 mV	26.39 ft	110.00 ml/min
11/14/2023 4:19 PM	21:44	7.33 pH	14.35 °C	1,019.7 µS/cm	4.49 mg/L	13.91 NTU	-127.3 mV	26.39 ft	110.00 ml/min
11/14/2023 4:22 PM	24:27	7.34 pH	14.29 °C	1,019.7 µS/cm	4.91 mg/L	11.86 NTU	-125.6 mV	26.39 ft	110.00 ml/min
11/14/2023 4:25 PM	27:10	7.34 pH	14.27 °C	1,019.1 µS/cm	5.27 mg/L	13.69 NTU	-122.9 mV	26.39 ft	110.00 ml/min
11/14/2023 4:27 PM	29:53	7.35 pH	14.27 °C	1,017.3 µS/cm	5.51 mg/L	9.78 NTU	-120.2 mV	26.39 ft	110.00 ml/min

Samples

Sample ID:	Description:
MW-7D	

WELL SAMPLE FORM

Project Name:	Factory Street	Date:	11/16/2023
Project Number:	1042-1005	Well ID:	MW-8S
Project Manager:	LN	Field Personnel:	MG

WELL OBSERVATIONS

Concrete Pad Condition:	Good	Notes
Cover Secured:	YES	
Cap Secured:	YES	
Custody Seal Number:		

WELL MEASUREMENTS

Well Diameter:	2.0	inches
Screen Length:	5	feet
Total Depth:	30	feet
Screened Interval:	25 - 30	feet
Depth to Water:	24.68	feet
Height of Water Column:	5.32	feet
One Casing Volume:	0.86716	gallons

Factor * Water Column Height Equals Gallons	
Factor	Diameter
0.041	1.0" Well
0.092	1.5" Well
0.163	2.0" Well

Pump Volume by Pump Size:

X .850", 18" = 29 ml

.675", 18" = 15 ml

SAMPLE METHOD

Peristaltic Pump:		Model:		Tubing:		
Bladder Pump:	X	Model:	Geotech Geocontrol	Tubing:	TLPE	Bladder: Teflon
Bailer:		Material:				

Pump Placement (From TOC): 28 feet

Pump placed in screened interval?: YES

Tubing Length: 31 feet

Start Time:	1110		
Finish Time:	1215	Volume Purged:	1.5 gallons
Visual Water Quality:	Clear	Waste Drum Id:	1
Recharge Rate:	Adequate		

Notes: Anomalous turbidity reading at 14:42, empty flow cell. Turbidity readings anamolous again at 36:45. Reset turbidity sensor to factory calibration settings and see if problem solved. EB-01 collected after sampling well and deconned pump.

FLOW RATE & STABILIZED WATER LEVEL

SWL #1:	24.68	SWL #2:	24.68	SWL #3:	24.68	Flow Rate:	95 mL/min

Sample Identification: MW-8S

QA/QC: EB-01 @ 1235

Sample Time: 1220

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Low-Flow Test Report:

Test Date / Time: 11/16/2023 11:27:24 AM
Project: Factory Street Q4 2023
Operator Name: M. Grzegorek

Location Name: MW-8S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20 ft** **Total Depth: 30 ft** **Initial Depth to Water: 24.68 ft**	**Pump Type: Bladder** **Tubing Type: TLPE** **Tubing Inner Diameter: 0.125 in** **Tubing Length: 31 ft** **Pump Intake From TOC: 28 ft** **Estimated Total Volume Pumped: 4515.667 ml** **Flow Cell Volume: 130 ml** **Final Flow Rate: 95 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 600** **Serial Number: 867255**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10	+/- 10 %	+/- 10		
11/16/2023 11:27 AM	00:00	7.16 pH	16.24 °C	1,810.6 µS/cm	7.36 mg/L	290.00 NTU	221.0 mV	24.68 ft	95.00 ml/min
11/16/2023 11:29 AM	02:27	7.15 pH	16.08 °C	1,811.7 µS/cm	7.27 mg/L	206.37 NTU	223.0 mV	24.68 ft	95.00 ml/min
11/16/2023 11:32 AM	04:54	7.16 pH	16.03 °C	1,790.7 µS/cm	7.36 mg/L	109.07 NTU	224.4 mV	24.68 ft	95.00 ml/min
11/16/2023 11:34 AM	07:21	7.17 pH	15.99 °C	1,782.2 µS/cm	7.42 mg/L	135.97 NTU	225.7 mV	24.68 ft	95.00 ml/min
11/16/2023 11:37 AM	09:48	7.18 pH	15.99 °C	1,777.9 µS/cm	7.43 mg/L	92.39 NTU	226.8 mV	24.68 ft	95.00 ml/min
11/16/2023 11:39 AM	12:15	7.18 pH	15.98 °C	1,773.9 µS/cm	7.46 mg/L	64.61 NTU	227.8 mV	24.68 ft	95.00 ml/min
11/16/2023 11:42 AM	14:42	7.18 pH	15.99 °C	1,767.7 µS/cm	7.45 mg/L	1,290.9 NTU	228.8 mV	24.68 ft	95.00 ml/min
11/16/2023 11:44 AM	17:09	7.19 pH	15.96 °C	1,759.4 µS/cm	7.48 mg/L	406.71 NTU	229.9 mV	24.68 ft	95.00 ml/min
11/16/2023 11:47 AM	19:36	7.45 pH	16.04 °C	1,738.9 µS/cm	8.96 mg/L	109.46 NTU	229.7 mV	24.68 ft	95.00 ml/min
11/16/2023 11:49 AM	22:03	7.20 pH	16.08 °C	1,748.9 µS/cm	7.62 mg/L	90.71 NTU	230.8 mV	24.68 ft	95.00 ml/min
11/16/2023 11:51 AM	24:30	7.20 pH	16.09 °C	1,746.0 µS/cm	7.58 mg/L	109.36 NTU	231.5 mV	24.68 ft	95.00 ml/min
11/16/2023 11:54 AM	26:57	7.20 pH	16.08 °C	1,742.4 µS/cm	7.57 mg/L	165.75 NTU	232.2 mV	24.68 ft	95.00 ml/min
11/16/2023 11:56 AM	29:24	7.20 pH	16.13 °C	1,739.2 µS/cm	7.58 mg/L	66.62 NTU	232.8 mV	24.68 ft	95.00 ml/min
11/16/2023 11:59 AM	31:51	7.21 pH	16.10 °C	1,735.3 µS/cm	7.58 mg/L	63.25 NTU	233.3 mV	24.68 ft	95.00 ml/min

11/16/2023 12:01 PM	34:18	7.21 pH	16.12 °C	1,734.4 µS/cm	7.58 mg/L	277.38 NTU	234.0 mV	24.68 ft	95.00 ml/min
11/16/2023 12:04 PM	36:45	7.21 pH	16.12 °C	1,728.7 µS/cm	7.58 mg/L	241.39 NTU	234.8 mV	24.68 ft	95.00 ml/min
11/16/2023 12:05 PM	37:44	7.21 pH	16.13 °C	1,726.2 µS/cm	7.59 mg/L	225.31 NTU	235.2 mV	24.68 ft	95.00 ml/min
11/16/2023 12:07 PM	40:11	7.21 pH	16.13 °C	1,721.4 µS/cm	7.60 mg/L	85.99 NTU	235.9 mV	24.68 ft	95.00 ml/min
11/16/2023 12:10 PM	42:38	7.21 pH	16.05 °C	1,717.3 µS/cm	7.61 mg/L	69.06 NTU	236.3 mV	24.68 ft	95.00 ml/min
11/16/2023 12:12 PM	45:05	7.22 pH	16.00 °C	1,714.7 µS/cm	7.62 mg/L	67.38 NTU	236.8 mV	24.68 ft	95.00 ml/min
11/16/2023 12:14 PM	47:32	7.22 pH	15.96 °C	1,712.3 µS/cm	7.62 mg/L	66.84 NTU	237.1 mV	24.68 ft	95.00 ml/min

Samples

Sample ID:	Description:
MW-8S	

WELL SAMPLE FORM

Project Name:	Factory Street	Date:	11/14/2023
Project Number:	1042-1005	Well ID:	MW-8D
Project Manager:	LN	Field Personnel:	KG

WELL OBSERVATIONS

		Notes
Concrete Pad Condition:	Good	
Cover Secured:	YES	
Cap Secured:	YES	
Custody Seal Number:		

WELL MEASUREMENTS

Well Diameter:	2.0	inches
Screen Length:	5	feet
Total Depth:	55	feet
Screened Interval:	50 - 55	feet
Depth to Water:	25.65	feet
Height of Water Column:	29.35	feet
One Casing Volume:	4.78405	gallons

Factor * Water Column Height Equals Gallons	
Factor	Diameter
0.041	1.0" Well
0.092	1.5" Well
0.163	2.0" Well

Pump Volume by Pump Size:

X .850", 18" = 29 ml

.675", 18" = 15 ml

SAMPLE METHOD

Peristaltic Pump:		Model:		Tubing:		
Bladder Pump:	X	Model:	Geotech Geocontrol	Tubing:	TLPE	Bladder: Teflon
Bailer:		Material:		Pump Placement (From TOC):	53	feet
Pump placed in screened interval?:	YES			Tubing Length:	55	feet

Start Time:	1609		
Finish Time:	1638	Volume Purged:	1.25 gallons
Visual Water Quality:	Clear	Waste Drum Id:	4
Recharge Rate:	Adequate	Notes:	

FLOW RATE & STABILIZED WATER LEVEL

SWL #1:	25.65	SWL #2:	25.65	SWL #3:	25.65	Flow Rate:	138 mL/min

Sample Identification: MW-8D

QA/QC:

Sample Time: 1640

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Low-Flow Test Report:

Test Date / Time: 11/14/2023 4:08:24 PM
Project: Factory Street (5)
Operator Name: KG

Location Name: MW-8D **Latitude: 41.62115944553317** **Longitude: -86.70459005989758** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 60 in** **Top of Screen: 50 ft** **Total Depth: 55 ft** **Initial Depth to Water: 25.65 ft**	**Pump Type: Bladder** **Tubing Type: Tlpe** **Tubing Inner Diameter: 0.125 in** **Tubing Length: 55 ft** **Pump Intake From TOC: 53 ft** **Estimated Total Volume Pumped: 3767.4 ml** **Flow Cell Volume: 130 ml** **Final Flow Rate: 138 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 600** **Serial Number: 707273**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10		
11/14/2023 4:08 PM	00:00	7.32 pH	14.97 °C	1,028.3 µS/cm	2.36 mg/L	14.97 NTU	-46.3 mV	25.65 ft	138.00 ml/min
11/14/2023 4:10 PM	02:06	7.21 pH	14.64 °C	1,028.4 µS/cm	0.77 mg/L	13.28 NTU	-51.5 mV	25.65 ft	138.00 ml/min
11/14/2023 4:12 PM	04:12	7.20 pH	14.54 °C	1,025.7 µS/cm	0.61 mg/L	17.06 NTU	-53.5 mV	25.65 ft	138.00 ml/min
11/14/2023 4:14 PM	06:18	7.20 pH	14.42 °C	1,026.6 µS/cm	0.53 mg/L	15.56 NTU	-55.0 mV	25.65 ft	138.00 ml/min
11/14/2023 4:16 PM	08:24	7.20 pH	14.41 °C	1,026.4 µS/cm	0.46 mg/L	12.08 NTU	-56.2 mV	25.65 ft	138.00 ml/min
11/14/2023 4:18 PM	10:30	7.20 pH	14.39 °C	1,026.2 µS/cm	0.45 mg/L	12.58 NTU	-56.2 mV	25.65 ft	138.00 ml/min
11/14/2023 4:21 PM	12:36	7.20 pH	14.31 °C	1,026.8 µS/cm	0.42 mg/L	8.08 NTU	-57.1 mV	25.65 ft	138.00 ml/min
11/14/2023 4:23 PM	14:42	7.20 pH	14.30 °C	1,025.7 µS/cm	0.42 mg/L	11.28 NTU	-57.5 mV	25.65 ft	138.00 ml/min
11/14/2023 4:25 PM	16:48	7.20 pH	14.30 °C	1,025.4 µS/cm	0.41 mg/L	12.14 NTU	-56.6 mV	25.65 ft	138.00 ml/min
11/14/2023 4:27 PM	18:54	7.20 pH	14.25 °C	1,024.4 µS/cm	0.41 mg/L	10.90 NTU	-56.8 mV	25.65 ft	138.00 ml/min
11/14/2023 4:29 PM	21:00	7.20 pH	14.25 °C	1,024.2 µS/cm	0.40 mg/L	10.01 NTU	-56.7 mV	25.65 ft	138.00 ml/min
11/14/2023 4:31 PM	23:06	7.20 pH	14.24 °C	1,025.1 µS/cm	0.38 mg/L	14.10 NTU	-56.3 mV	25.65 ft	138.00 ml/min
11/14/2023 4:33 PM	25:12	7.20 pH	14.22 °C	1,022.3 µS/cm	0.37 mg/L	15.20 NTU	-56.2 mV	25.65 ft	138.00 ml/min
11/14/2023 4:35 PM	27:18	7.20 pH	14.21 °C	1,021.9 µS/cm	0.37 mg/L	14.86 NTU	-56.2 mV	25.65 ft	138.00 ml/min

Samples

Sample ID:	Description:

WELL SAMPLE FORM

Project Name:	Factory Street	Date:	11/15/2023
Project Number:	1042-1005	Well ID:	MW-9S
Project Manager:	LN	Field Personnel:	JH

WELL OBSERVATIONS

Concrete Pad Condition:	Good	Notes
Cover Secured:	NO	No Bolts
Cap Secured:	YES	Only 1 bolt
Custody Seal Number:		

WELL MEASUREMENTS

Well Diameter:	2.0	inches
Screen Length:	10	feet
Total Depth:	30	feet
Screened Interval:	20 - 30	feet
Depth to Water:	24.96	feet
Height of Water Column:	5.04	feet
One Casing Volume:	0.82152	gallons

Factor * Water Column Height Equals Gallons	
Factor	Diameter
0.041	1.0" Well
0.092	1.5" Well
0.163	2.0" Well

Pump Volume by Pump Size:

X .850", 18" = 29 ml

.675", 18" = 15 ml

SAMPLE METHOD

Peristaltic Pump:		Model:		Tubing:		
Bladder Pump:	X	Model:	Geotech Geocontrol	Tubing:	TLPE	Bladder: Teflon
Bailer:		Material:		Pump Placement (From TOC):	28	feet
Pump placed in screened interval?:	YES			Tubing Length:	33	feet

Start Time:	1610		
Finish Time:	1628	Volume Purged:	0.5 gallons
Visual Water Quality:	Clear	Waste Drum Id:	2
Recharge Rate:	Adequate	Notes:	

FLOW RATE & STABILIZED WATER LEVEL

SWL #1:	24.96	SWL #2:	24.96	SWL #3:	24.96	Flow Rate:	150 mL/min

Sample Identification: MW-9S

QA/QC: None

Sample Time: 1630

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Low-Flow Test Report:

Test Date / Time: 11/15/2023 4:10:15 PM
Project: 1042-1005
Operator Name: JHumphress

Location Name: MW-9S **Latitude: 41.62068201232852** **Longitude: -86.70575573117165** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20 ft** **Total Depth: 30 ft** **Initial Depth to Water: 24.96 ft**	**Pump Type: Bladder** **Tubing Type: TLPE** **Tubing Inner Diameter: 0.125 in** **Tubing Length: 33 ft** **Pump Intake From TOC: 28 ft** **Estimated Total Volume Pumped: 2612.5 ml** **Flow Cell Volume: 130 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 600** **Serial Number: 1022234**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10		
11/15/2023 4:10 PM	00:00	7.04 pH	15.60 °C	1,583.5 µS/cm	2.62 mg/L	41.92 NTU	87.0 mV	24.96 ft	150.00 ml/min
11/15/2023 4:11 PM	01:35	7.04 pH	15.51 °C	1,569.2 µS/cm	2.50 mg/L	24.15 NTU	87.3 mV	24.96 ft	150.00 ml/min
11/15/2023 4:13 PM	03:10	7.05 pH	15.42 °C	1,557.5 µS/cm	2.45 mg/L	16.73 NTU	86.8 mV	24.96 ft	150.00 ml/min
11/15/2023 4:15 PM	04:45	7.04 pH	15.33 °C	1,549.2 µS/cm	2.40 mg/L	16.57 NTU	86.6 mV	24.96 ft	150.00 ml/min
11/15/2023 4:16 PM	06:20	7.03 pH	15.34 °C	1,560.3 µS/cm	2.39 mg/L	15.33 NTU	86.7 mV	24.96 ft	150.00 ml/min
11/15/2023 4:18 PM	07:55	7.04 pH	15.29 °C	1,542.9 µS/cm	2.31 mg/L	8.22 NTU	86.1 mV	24.96 ft	150.00 ml/min
11/15/2023 4:19 PM	09:30	7.03 pH	15.27 °C	1,537.3 µS/cm	2.25 mg/L	12.35 NTU	86.0 mV	24.96 ft	150.00 ml/min
11/15/2023 4:21 PM	11:05	7.03 pH	15.25 °C	1,531.2 µS/cm	2.22 mg/L	7.41 NTU	86.1 mV	24.96 ft	150.00 ml/min
11/15/2023 4:22 PM	12:40	7.03 pH	15.22 °C	1,539.0 µS/cm	2.25 mg/L	6.69 NTU	85.6 mV	24.96 ft	150.00 ml/min
11/15/2023 4:24 PM	14:15	7.03 pH	15.24 °C	1,533.8 µS/cm	2.24 mg/L	5.74 NTU	85.6 mV	24.96 ft	150.00 ml/min
11/15/2023 4:26 PM	15:50	7.04 pH	15.21 °C	1,530.1 µS/cm	2.21 mg/L	2.04 NTU	85.1 mV	24.96 ft	150.00 ml/min
11/15/2023 4:27 PM	17:25	7.03 pH	15.21 °C	1,522.9 µS/cm	2.16 mg/L	2.04 NTU	85.0 mV	24.96 ft	150.00 ml/min

Samples

Sample ID:	Description:

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WELL SAMPLE FORM

Project Name:	Factory Street	Date:	11/15/2023
Project Number:	1042-1005	Well ID:	MW-9D
Project Manager:	LN	Field Personnel:	KG

WELL OBSERVATIONS

		Notes
Concrete Pad Condition:	Good	
Cover Secured:	YES	
Cap Secured:	YES	
Custody Seal Number:		

WELL MEASUREMENTS

Well Diameter:	2.0	inches
Screen Length:	5	feet
Total Depth:	55	feet
Screened Interval:	50 - 55	feet
Depth to Water:	25.08	feet
Height of Water Column:	29.92	feet
One Casing Volume:	4.87696	gallons

Factor * Water Column Height Equals Gallons	
Factor	Diameter
0.041	1.0" Well
0.092	1.5" Well
0.163	2.0" Well

Pump Volume by Pump Size:

X .850", 18" = 29 ml

.675", 18" = 15 ml

SAMPLE METHOD

Peristaltic Pump:		Model:		Tubing:		
Bladder Pump:	X	Model:	Geotech Geocontrol	Tubing:	TLPE	Bladder: Teflon
Bailer:		Material:		Pump Placement (From TOC):	53	feet
Pump placed in screened interval?:	YES			Tubing Length:	55	feet

Start Time:	1042		
Finish Time:	1127	Volume Purged:	2 gallons
Visual Water Quality:	Clear	Waste Drum Id:	4
Recharge Rate:	Adequate	Notes:	

FLOW RATE & STABILIZED WATER LEVEL

SWL #1:	25.13	SWL #2:	25.13	SWL #3:	25.13	Flow Rate:	130 mL/min

Sample Identification: MW-9D

QA/QC:

Sample Time: 1130

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Low-Flow Test Report:

Test Date / Time: 11/15/2023 10:41:49 AM
Project: Factory Street (6)
Operator Name: KG

Location Name: MW-9D **Latitude: 41.620784858280636** **Longitude: -86.70551123105614** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 60 in** **Top of Screen: 50 ft** **Total Depth: 55 ft** **Initial Depth to Water: 25.08 ft**	**Pump Type: Bladder** **Tubing Type: Tlpe** **Tubing Inner Diameter: 0.125 in** **Tubing Length: 55 ft** **Pump Intake From TOC: 53 ft** **Estimated Total Volume Pumped: 5806.667 ml** **Flow Cell Volume: 130 ml** **Final Flow Rate: 130 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 600** **Serial Number: 707273**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10		
11/15/2023 10:41 AM	00:00	7.22 pH	13.77 °C	1,123.1 µS/cm	3.17 mg/L	6.29 NTU	-123.8 mV	25.08 ft	130.00 ml/min
11/15/2023 10:44 AM	02:14	7.04 pH	14.01 °C	1,102.9 µS/cm	1.08 mg/L	6.51 NTU	-136.8 mV	25.08 ft	130.00 ml/min
11/15/2023 10:46 AM	04:28	7.06 pH	14.04 °C	1,097.1 µS/cm	0.81 mg/L	4.03 NTU	-134.1 mV	25.08 ft	130.00 ml/min
11/15/2023 10:48 AM	06:42	7.07 pH	14.06 °C	1,093.6 µS/cm	0.70 mg/L	5.90 NTU	-129.9 mV	25.08 ft	130.00 ml/min
11/15/2023 10:50 AM	08:56	7.08 pH	14.10 °C	1,091.8 µS/cm	0.62 mg/L	5.40 NTU	-130.1 mV	25.08 ft	130.00 ml/min
11/15/2023 10:52 AM	11:10	7.08 pH	14.10 °C	1,090.6 µS/cm	0.50 mg/L	5.89 NTU	-137.1 mV	25.08 ft	130.00 ml/min
11/15/2023 10:55 AM	13:24	7.09 pH	14.12 °C	1,087.4 µS/cm	0.48 mg/L	7.87 NTU	-131.1 mV	25.08 ft	130.00 ml/min
11/15/2023 10:57 AM	15:38	7.09 pH	14.13 °C	1,085.7 µS/cm	0.45 mg/L	10.05 NTU	-127.0 mV	25.08 ft	130.00 ml/min
11/15/2023 10:59 AM	17:52	7.09 pH	14.16 °C	1,083.1 µS/cm	0.42 mg/L	14.32 NTU	-127.4 mV	25.08 ft	130.00 ml/min
11/15/2023 11:01 AM	20:06	7.10 pH	14.20 °C	1,080.1 µS/cm	0.39 mg/L	14.84 NTU	-125.0 mV	25.08 ft	130.00 ml/min
11/15/2023 11:04 AM	22:20	7.10 pH	14.18 °C	1,078.5 µS/cm	0.36 mg/L	21.57 NTU	-126.1 mV	25.08 ft	130.00 ml/min
11/15/2023 11:06 AM	24:34	7.10 pH	14.20 °C	1,075.7 µS/cm	0.36 mg/L	36.93 NTU	-122.9 mV	25.08 ft	130.00 ml/min
11/15/2023 11:08 AM	26:48	7.10 pH	14.22 °C	1,073.0 µS/cm	0.36 mg/L	45.39 NTU	-124.4 mV	25.08 ft	130.00 ml/min
11/15/2023 11:10 AM	29:02	7.11 pH	14.24 °C	1,073.7 µS/cm	0.33 mg/L	108.84 NTU	-124.1 mV	25.08 ft	130.00 ml/min

11/15/2023 11:13 AM	31:16	7.11 pH	14.23 °C	1,071.2 µS/cm	0.31 mg/L	133.78 NTU	-124.1 mV	25.08 ft	130.00 ml/min
11/15/2023 11:15 AM	33:30	7.11 pH	14.26 °C	1,069.4 µS/cm	0.30 mg/L	161.15 NTU	-122.2 mV	25.08 ft	130.00 ml/min
11/15/2023 11:17 AM	35:44	7.16 pH	14.31 °C	1,087.1 µS/cm	1.66 mg/L	1.00 NTU	-118.6 mV	25.08 ft	130.00 ml/min
11/15/2023 11:19 AM	37:58	7.12 pH	14.29 °C	1,084.6 µS/cm	0.33 mg/L	0.65 NTU	-117.4 mV	25.08 ft	130.00 ml/min
11/15/2023 11:22 AM	40:12	7.12 pH	14.26 °C	1,084.0 µS/cm	0.30 mg/L	0.00 NTU	-115.8 mV	25.08 ft	130.00 ml/min
11/15/2023 11:24 AM	42:26	7.12 pH	14.28 °C	1,084.8 µS/cm	0.29 mg/L	0.00 NTU	-116.0 mV	25.08 ft	130.00 ml/min
11/15/2023 11:26 AM	44:40	7.11 pH	14.28 °C	1,084.3 µS/cm	0.29 mg/L	1.25 NTU	-116.2 mV	25.08 ft	130.00 ml/min

Samples

Sample ID:	Description:

WELL SAMPLE FORM

Project Name:	Factory Street	Date:	11/15/2023
Project Number:	1042-1005	Well ID:	MW-10S
Project Manager:	LN	Field Personnel:	JH

WELL OBSERVATIONS

		Notes
Concrete Pad Condition:	Good	
Cover Secured:	YES	
Cap Secured:	YES	
Custody Seal Number:		

WELL MEASUREMENTS

Well Diameter:	2.0	inches
Screen Length:	10	feet
Total Depth:	30	feet
Screened Interval:	20 - 30	feet
Depth to Water:	27.55	feet
Height of Water Column:	2.45	feet
One Casing Volume:	0.39935	gallons

Factor * Water Column Height Equals Gallons	
Factor	Diameter
0.041	1.0" Well
0.092	1.5" Well
0.163	2.0" Well

Pump Volume by Pump Size:

X .850", 18" = 29 ml

.675", 18" = 15 ml

SAMPLE METHOD

Peristaltic Pump:		Model:		Tubing:		
Bladder Pump:	X	Model:	Geotech Geocontrol	Tubing:	TLPE	Bladder: Teflon
Bailer:		Material:				

Pump Placement (From TOC): 29.5 feet

Pump placed in screened interval?: YES

Tubing Length: 31 feet

Start Time:	1250		
Finish Time:	1317	Volume Purged:	1 gallons
Visual Water Quality:	Clear	Waste Drum Id:	2
Recharge Rate:	Adequate	Notes:	

FLOW RATE & STABILIZED WATER LEVEL

SWL #1:	27.55	SWL #2:	27.55	SWL #3:	27.55	Flow Rate:	100 mL/min

Sample Identification: MW-10S

QA/QC: None

Sample Time: 1320

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Low-Flow Test Report:

Test Date / Time: 11/15/2023 12:49:35 PM
Project: 1042-1005
Operator Name: JHumphress

Location Name: MW-10S **Latitude: 41.62233703587854** **Longitude: -86.71064437421342** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20 ft** **Total Depth: 30 ft** **Initial Depth to Water: 27.55 ft**	**Pump Type: Bladder** **Tubing Type: TLPE** **Tubing Inner Diameter: 0.125 in** **Tubing Length: 31 ft** **Pump Intake From TOC: 29.5 ft** **Estimated Total Volume Pumped: 2721.667 ml** **Flow Cell Volume: 130 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 600** **Serial Number: 1022234**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10		
11/15/2023 12:49 PM	00:00	6.89 pH	15.50 °C	1,656.0 µS/cm	6.57 mg/L	41.99 NTU	155.4 mV	27.55 ft	100.00 ml/min
11/15/2023 12:55 PM	06:13	6.93 pH	15.24 °C	1,597.5 µS/cm	6.41 mg/L	24.42 NTU	147.5 mV	27.55 ft	100.00 ml/min
11/15/2023 12:58 PM	08:33	6.94 pH	15.18 °C	1,590.6 µS/cm	6.39 mg/L	17.94 NTU	146.6 mV	27.55 ft	100.00 ml/min
11/15/2023 1:00 PM	10:53	6.93 pH	15.16 °C	1,589.0 µS/cm	6.38 mg/L	18.54 NTU	144.9 mV	27.55 ft	100.00 ml/min
11/15/2023 1:02 PM	13:13	6.94 pH	15.09 °C	1,583.1 µS/cm	6.38 mg/L	20.82 NTU	142.8 mV	27.55 ft	100.00 ml/min
11/15/2023 1:05 PM	15:33	6.94 pH	15.13 °C	1,586.0 µS/cm	6.39 mg/L	11.46 NTU	141.3 mV	27.55 ft	100.00 ml/min
11/15/2023 1:07 PM	17:53	6.94 pH	15.12 °C	1,584.7 µS/cm	6.38 mg/L	7.96 NTU	139.3 mV	27.55 ft	100.00 ml/min
11/15/2023 1:09 PM	20:13	6.93 pH	15.17 °C	1,585.3 µS/cm	6.36 mg/L	7.39 NTU	139.0 mV	27.55 ft	100.00 ml/min
11/15/2023 1:12 PM	22:33	6.94 pH	15.17 °C	1,584.9 µS/cm	6.35 mg/L	10.40 NTU	137.6 mV	27.55 ft	100.00 ml/min
11/15/2023 1:14 PM	24:53	6.94 pH	15.10 °C	1,585.2 µS/cm	6.35 mg/L	8.10 NTU	135.4 mV	27.55 ft	100.00 ml/min
11/15/2023 1:16 PM	27:13	6.94 pH	15.14 °C	1,587.0 µS/cm	6.35 mg/L	6.29 NTU	134.6 mV	27.55 ft	100.00 ml/min

Samples

Sample ID:	Description:

WELL SAMPLE FORM

Project Name:	Factory Street	Date:	11/16/2023
Project Number:	1042-1005	Well ID:	MW-11S
Project Manager:	LN	Field Personnel:	JH

WELL OBSERVATIONS

		Notes
Concrete Pad Condition:	Good	
Cover Secured:	YES	
Cap Secured:	YES	
Custody Seal Number:		

WELL MEASUREMENTS

Well Diameter:	2.0	inches
Screen Length:	10	feet
Total Depth:	30	feet
Screened Interval:	20 - 30	feet
Depth to Water:	27.22	feet
Height of Water Column:	2.78	feet
One Casing Volume:	0.45314	gallons

Factor * Water Column Height Equals Gallons	
Factor	Diameter
0.041	1.0" Well
0.092	1.5" Well
0.163	2.0" Well

Pump Volume by Pump Size:

X .850", 18" = 29 ml

.675", 18" = 15 ml

SAMPLE METHOD

Peristaltic Pump:		Model:		Tubing:		
Bladder Pump:	X	Model:	Geotech Geocontrol	Tubing:	TLPE	Bladder: Teflon
Bailer:		Material:				

Pump Placement (From TOC): 29.5 feet

Pump placed in screened interval?: YES

Tubing Length: 32 feet

Start Time:	1008		
Finish Time:	1024	Volume Purged:	1 gallons
Visual Water Quality:	Clear	Waste Drum Id:	2
Recharge Rate:	Adequate	Notes:	

FLOW RATE & STABILIZED WATER LEVEL

SWL #1:	27.36	SWL #2:	27.4	SWL #3:	27.4	Flow Rate:	158 mL/min

Sample Identification: MW-11S

QA/QC: None

Sample Time: 1028

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Low-Flow Test Report:

Test Date / Time: 11/16/2023 10:08:03 AM
Project: 1042-1005
Operator Name: JHumphress

Location Name: MW-11S **Latitude: 41.62185646535657** **Longitude: -86.70650284259784** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20 ft** **Total Depth: 30 ft** **Initial Depth to Water: 27.22 ft**	**Pump Type: Bladder** **Tubing Type: TLPE** **Tubing Inner Diameter: 0.125 in** **Tubing Length: 32 ft** **Pump Intake From TOC: 29.5 ft** **Estimated Total Volume Pumped: 2578.033 ml** **Flow Cell Volume: 130 ml** **Final Flow Rate: 158 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 600** **Serial Number: 1022234**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10		
11/16/2023 10:08 AM	00:00	6.83 pH	12.97 °C	831.41 µS/cm	6.40 mg/L	86.45 NTU	178.0 mV	27.22 ft	158.00 ml/min
11/16/2023 10:09 AM	01:29	6.87 pH	12.93 °C	808.67 µS/cm	6.05 mg/L	68.80 NTU	174.7 mV	27.22 ft	158.00 ml/min
11/16/2023 10:11 AM	02:58	6.88 pH	12.92 °C	804.36 µS/cm	6.05 mg/L	61.70 NTU	172.7 mV	27.22 ft	158.00 ml/min
11/16/2023 10:12 AM	04:27	6.89 pH	12.91 °C	804.22 µS/cm	6.01 mg/L	52.71 NTU	171.9 mV	27.22 ft	158.00 ml/min
11/16/2023 10:13 AM	05:56	6.90 pH	12.91 °C	803.05 µS/cm	6.01 mg/L	45.99 NTU	170.7 mV	27.22 ft	158.00 ml/min
11/16/2023 10:15 AM	07:25	6.91 pH	12.91 °C	802.36 µS/cm	6.02 mg/L	23.94 NTU	169.7 mV	27.22 ft	158.00 ml/min
11/16/2023 10:16 AM	08:54	6.91 pH	12.91 °C	801.11 µS/cm	6.03 mg/L	21.15 NTU	168.3 mV	27.22 ft	158.00 ml/min
11/16/2023 10:18 AM	10:23	6.92 pH	12.91 °C	800.53 µS/cm	6.04 mg/L	21.36 NTU	167.4 mV	27.22 ft	158.00 ml/min
11/16/2023 10:19 AM	11:52	6.92 pH	12.92 °C	800.37 µS/cm	6.03 mg/L	12.28 NTU	166.8 mV	27.22 ft	158.00 ml/min
11/16/2023 10:21 AM	13:21	6.92 pH	12.93 °C	800.17 µS/cm	6.02 mg/L	11.38 NTU	165.9 mV	27.22 ft	158.00 ml/min
11/16/2023 10:22 AM	14:50	6.92 pH	12.91 °C	799.79 µS/cm	6.03 mg/L	8.08 NTU	165.1 mV	27.22 ft	158.00 ml/min
11/16/2023 10:24 AM	16:19	6.93 pH	12.92 °C	799.26 µS/cm	6.03 mg/L	7.05 NTU	164.4 mV	27.22 ft	158.00 ml/min

Samples

Sample ID:	Description:

WELL SAMPLE FORM

Project Name:	Factory Street	Date:	11/16/2023
Project Number:	1042-1005	Well ID:	MW-12S
Project Manager:	LN	Field Personnel:	KG

WELL OBSERVATIONS

		Notes
Concrete Pad Condition:	Good	
Cover Secured:	YES	
Cap Secured:	YES	
Custody Seal Number:		

WELL MEASUREMENTS

Well Diameter:	2.0	inches
Screen Length:	10	feet
Total Depth:	30	feet
Screened Interval:	20 - 30	feet
Depth to Water:	27.54	feet
Height of Water Column:	2.46	feet
One Casing Volume:	0.40098	gallons

Factor * Water Column Height Equals Gallons	
Factor	Diameter
0.041	1.0" Well
0.092	1.5" Well
0.163	2.0" Well

Pump Volume by Pump Size:

X .850", 18" = 29 ml

.675", 18" = 15 ml

SAMPLE METHOD

Peristaltic Pump:		Model:		Tubing:			
Bladder Pump:	X	Model:	Geotech Geocontrol	Tubing:	TLPE	Bladder:	Teflon
Bailer:		Material:		Pump Placement (From TOC):	29.5	feet	
Pump placed in screened interval?:	YES			Tubing Length:	30	feet	

Start Time:	1132		
Finish Time:	1210	Volume Purged:	0.5 gallons
Visual Water Quality:	Clear	Waste Drum Id:	1
Recharge Rate:	Adequate	Notes:water has odor	

FLOW RATE & STABILIZED WATER LEVEL

SWL #1:	27.62	SWL #2:	27.63	SWL #3:	27.64	Flow Rate:	82 mL/min

Sample Identification: MW-12S

QA/QC:

Sample Time: 1215

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Low-Flow Test Report:

Test Date / Time: 11/16/2023 11:33:16 AM
Project: Factory Street (12)
Operator Name: KG

Location Name: MW-12S **Latitude: 41.621587509328144** **Longitude: -86.7051366438034** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 120 in** **Top of Screen: 20 ft** **Total Depth: 30 ft** **Initial Depth to Water: 27.54 ft**	**Pump Type: Bladder** **Tubing Type: Tlpe** **Tubing Inner Diameter: 0.125 in** **Tubing Length: 30 ft** **Pump Intake From TOC: 29.5 ft** **Estimated Total Volume Pumped: 3002.567 ml** **Flow Cell Volume: 130 ml** **Final Flow Rate: 82 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 600** **Serial Number: 707273**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10		
11/16/2023 11:33 AM	00:00	7.63 pH	17.75 °C	420.72 µS/cm	9.94 mg/L	35.67 NTU	85.4 mV	27.54 ft	82.00 ml/min
11/16/2023 11:36 AM	02:49	7.76 pH	17.68 °C	411.38 µS/cm	10.01 mg/L	32.83 NTU	83.1 mV	27.54 ft	82.00 ml/min
11/16/2023 11:38 AM	05:38	7.79 pH	17.65 °C	409.76 µS/cm	10.02 mg/L	29.88 NTU	79.7 mV	27.54 ft	82.00 ml/min
11/16/2023 11:41 AM	08:27	7.81 pH	17.64 °C	409.68 µS/cm	10.05 mg/L	43.19 NTU	76.7 mV	27.54 ft	82.00 ml/min
11/16/2023 11:44 AM	11:16	7.82 pH	17.64 °C	409.33 µS/cm	10.06 mg/L	46.79 NTU	75.3 mV	27.54 ft	82.00 ml/min
11/16/2023 11:47 AM	14:05	7.84 pH	17.64 °C	409.57 µS/cm	10.07 mg/L	37.65 NTU	74.2 mV	27.54 ft	82.00 ml/min
11/16/2023 11:50 AM	16:54	7.84 pH	17.65 °C	409.29 µS/cm	10.09 mg/L	41.48 NTU	73.9 mV	27.54 ft	82.00 ml/min
11/16/2023 11:52 AM	19:43	7.85 pH	17.65 °C	409.57 µS/cm	10.10 mg/L	29.29 NTU	72.7 mV	27.54 ft	82.00 ml/min
11/16/2023 11:55 AM	22:32	7.85 pH	17.66 °C	409.40 µS/cm	10.11 mg/L	24.14 NTU	72.6 mV	27.54 ft	82.00 ml/min
11/16/2023 11:58 AM	25:21	7.86 pH	17.67 °C	409.62 µS/cm	10.13 mg/L	19.26 NTU	71.8 mV	27.54 ft	82.00 ml/min
11/16/2023 12:01 PM	28:10	7.86 pH	17.68 °C	409.42 µS/cm	10.12 mg/L	19.23 NTU	72.2 mV	27.54 ft	82.00 ml/min
11/16/2023 12:04 PM	30:59	7.87 pH	17.68 °C	409.72 µS/cm	10.14 mg/L	16.12 NTU	71.5 mV	27.54 ft	82.00 ml/min
11/16/2023 12:07 PM	33:48	7.87 pH	17.69 °C	409.53 µS/cm	10.13 mg/L	16.26 NTU	71.6 mV	27.54 ft	82.00 ml/min
11/16/2023 12:09 PM	36:37	7.87 pH	17.69 °C	409.96 µS/cm	10.14 mg/L	15.00 NTU	71.2 mV	27.54 ft	82.00 ml/min

Samples

Sample ID:	Description:

WELL SAMPLE FORM

Project Name:	Factory Street	Date:	11/15/2023
Project Number:	1042-1005	Well ID:	MW-12D
Project Manager:	LN	Field Personnel:	MG

WELL OBSERVATIONS

		Notes
Concrete Pad Condition:	Good	
Cover Secured:	YES	
Cap Secured:	YES	
Custody Seal Number:		

WELL MEASUREMENTS

Well Diameter:	2.0	inches
Screen Length:	5	feet
Total Depth:	55	feet
Screened Interval:	50 - 55	feet
Depth to Water:	28.1	feet
Height of Water Column:	26.9	feet
One Casing Volume:	4.3847	gallons

Factor * Water Column Height Equals Gallons	
Factor	Diameter
0.041	1.0" Well
0.092	1.5" Well
0.163	2.0" Well

Pump Volume by Pump Size:

X .850", 18" = 29 ml

.675", 18" = 15 ml

SAMPLE METHOD

Peristaltic Pump:		Model:		Tubing:		
Bladder Pump:	X	Model:	Geotech Geocontrol	Tubing:	TLPE	Bladder: Teflon
Bailer:		Material:				

Pump Placement (From TOC): 53 feet

Pump placed in screened interval?: YES

Tubing Length: 56 feet

Start Time:	830		
Finish Time:	93	Volume Purged:	1.5 gallons
Visual Water Quality:	Clear	Waste Drum Id:	4
Recharge Rate:	Adequate		

Notes:AS system turned off prior to beginning sampling, the shortly turned back during water quality readings before being turned back off during AS system maintenance.

FLOW RATE & STABILIZED WATER LEVEL

SWL #1:	28.1	SWL #2:	28.1	SWL #3:	28.1	Flow Rate:	110 mL/min

Sample Identification: MW-12D

QA/QC: N/A

Sample Time: 935

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Low-Flow Test Report:

Test Date / Time: 11/15/2023 8:46:17 AM
Project: Factory Street Q4 2023
Operator Name: M. Grzegorek

Location Name: MW-12D **Latitude: 41.621670532079264** **Longitude: -86.70515441343812** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 50 ft** **Total Depth: 55 ft** **Initial Depth to Water: 28.1 ft**	**Pump Type: Bladder** **Tubing Type: TLPE** **Tubing Inner Diameter: 0.125 in** **Tubing Length: 56 ft** **Pump Intake From TOC: 53 ft** **Estimated Total Volume Pumped: 4693.333 ml** **Flow Cell Volume: 130 ml** **Final Flow Rate: 110 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 600** **Serial Number: 867255**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10	+/- 10 %	+/- 10		
11/15/2023 8:46 AM	00:00	6.86 pH	15.62 °C	1,288.7 µS/cm	4.33 mg/L	200.95 NTU	159.7 mV	28.10 ft	110.00 ml/min
11/15/2023 8:48 AM	02:40	6.95 pH	16.02 °C	1,268.2 µS/cm	1.64 mg/L	102.77 NTU	129.2 mV	28.10 ft	110.00 ml/min
11/15/2023 8:51 AM	05:20	6.99 pH	16.17 °C	1,263.9 µS/cm	1.36 mg/L	96.32 NTU	110.7 mV	28.10 ft	110.00 ml/min
11/15/2023 8:54 AM	08:00	7.03 pH	16.35 °C	1,258.1 µS/cm	1.20 mg/L	43.29 NTU	94.4 mV	28.10 ft	110.00 ml/min
11/15/2023 8:56 AM	10:40	7.07 pH	16.32 °C	1,251.1 µS/cm	1.22 mg/L	59.58 NTU	71.8 mV	28.10 ft	110.00 ml/min
11/15/2023 8:59 AM	13:20	7.11 pH	16.42 °C	1,222.4 µS/cm	1.66 mg/L	25.53 NTU	38.7 mV	28.10 ft	110.00 ml/min
11/15/2023 9:02 AM	16:00	7.16 pH	16.56 °C	1,183.7 µS/cm	2.45 mg/L	22.16 NTU	3.3 mV	28.10 ft	110.00 ml/min
11/15/2023 9:04 AM	18:40	7.20 pH	16.63 °C	1,154.8 µS/cm	3.23 mg/L	16.06 NTU	22.4 mV	28.10 ft	110.00 ml/min
11/15/2023 9:07 AM	21:20	7.18 pH	16.62 °C	1,185.1 µS/cm	2.87 mg/L	22.64 NTU	6.7 mV	28.10 ft	110.00 ml/min
11/15/2023 9:10 AM	24:00	7.18 pH	16.63 °C	1,195.0 µS/cm	2.84 mg/L	18.30 NTU	-37.2 mV	28.10 ft	110.00 ml/min
11/15/2023 9:12 AM	26:40	7.19 pH	16.58 °C	1,193.6 µS/cm	2.95 mg/L	19.52 NTU	-32.8 mV	28.10 ft	110.00 ml/min
11/15/2023 9:15 AM	29:20	7.19 pH	16.56 °C	1,190.2 µS/cm	3.04 mg/L	14.51 NTU	-65.8 mV	28.10 ft	110.00 ml/min
11/15/2023 9:18 AM	32:00	7.19 pH	16.55 °C	1,190.3 µS/cm	3.13 mg/L	14.63 NTU	-81.3 mV	28.10 ft	110.00 ml/min
11/15/2023 9:20 AM	34:40	7.20 pH	16.51 °C	1,190.4 µS/cm	3.20 mg/L	12.62 NTU	-108.5 mV	28.10 ft	110.00 ml/min

11/15/2023 9:23 AM	37:20	7.20 pH	16.51 °C	1,184.3 µS/cm	3.31 mg/L	12.08 NTU	-123.5 mV	28.10 ft	110.00 ml/min
11/15/2023 9:26 AM	40:00	7.21 pH	16.51 °C	1,182.1 µS/cm	3.51 mg/L	11.43 NTU	-130.6 mV	28.10 ft	110.00 ml/min
11/15/2023 9:28 AM	42:40	7.21 pH	16.49 °C	1,183.2 µS/cm	3.72 mg/L	11.92 NTU	-128.9 mV	28.10 ft	110.00 ml/min

Samples

Sample ID:	Description:
MW-12D	

WELL SAMPLE FORM

Project Name:	Factory Street	Date:	11/16/2023
Project Number:	1042-1005	Well ID:	MW-13S
Project Manager:	LN	Field Personnel:	MG

WELL OBSERVATIONS

		Notes
Concrete Pad Condition:	Good	
Cover Secured:	YES	
Cap Secured:	YES	
Custody Seal Number:		

WELL MEASUREMENTS

Well Diameter:	2.0	inches
Screen Length:	10	feet
Total Depth:	30	feet
Screened Interval:	20 - 30	feet
Depth to Water:	23.78	feet
Height of Water Column:	6.22	feet
One Casing Volume:	1.01386	gallons

Factor * Water Column Height Equals Gallons	
Factor	Diameter
0.041	1.0" Well
0.092	1.5" Well
0.163	2.0" Well

Pump Volume by Pump Size:

X .850", 18" = 29 ml

.675", 18" = 15 ml

SAMPLE METHOD

Peristaltic Pump:		Model:		Tubing:		
Bladder Pump:	X	Model:	Geotech Geocontrol	Tubing:	TLPE	Bladder: Teflon
Bailer:		Material:				

Pump Placement (From TOC): 28 feet

Pump placed in screened interval?: YES

Tubing Length: 31 feet

Start Time: 940

Finish Time: 1005

Visual Water Quality: Clear

Recharge Rate: Adequate

Volume Purged: 1.25 gallons

Waste Drum Id: 4

Notes:

FLOW RATE & STABILIZED WATER LEVEL

SWL #1:	23.78	SWL #2:	23.78	SWL #3:	23.78	Flow Rate:	110 mL/min

Sample Identification: MW-13S

QA/QC: N/A

Sample Time: 1010

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Low-Flow Test Report:

Test Date / Time: 11/16/2023 9:53:23 AM
Project: Factory Street Q4 2023
Operator Name: M. Grzegorek

Location Name: MW-13S **Latitude: 41.62028786700628** **Longitude: -86.70154258212432** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20 ft** **Total Depth: 30 ft** **Initial Depth to Water: 23.78 ft**	**Pump Type: Bladder** **Tubing Type: TLPE** **Tubing Inner Diameter: 0.125 in** **Tubing Length: 31 ft** **Pump Intake From TOC: 28 ft** **Estimated Total Volume Pumped: 1629.833 ml** **Flow Cell Volume: 130 ml** **Final Flow Rate: 110 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 600** **Serial Number: 867255**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10	+/- 10 %	+/- 10		
11/16/2023 9:53 AM	00:00	7.07 pH	15.33 °C	1,186.6 µS/cm	2.50 mg/L	225.49 NTU	215.3 mV	23.78 ft	110.00 ml/min
11/16/2023 9:55 AM	02:07	7.05 pH	15.08 °C	1,183.4 µS/cm	1.97 mg/L	170.21 NTU	215.4 mV	23.78 ft	110.00 ml/min
11/16/2023 9:57 AM	04:14	7.05 pH	15.11 °C	1,179.9 µS/cm	1.74 mg/L	125.05 NTU	215.4 mV	23.78 ft	110.00 ml/min
11/16/2023 9:59 AM	06:21	7.06 pH	15.05 °C	1,175.9 µS/cm	2.06 mg/L	52.15 NTU	216.4 mV	23.78 ft	110.00 ml/min
11/16/2023 10:01 AM	08:28	7.06 pH	15.02 °C	1,174.7 µS/cm	2.45 mg/L	42.05 NTU	216.0 mV	23.78 ft	110.00 ml/min
11/16/2023 10:03 AM	10:35	7.07 pH	15.00 °C	1,175.0 µS/cm	2.70 mg/L	38.11 NTU	216.2 mV	23.78 ft	110.00 ml/min
11/16/2023 10:06 AM	12:42	7.08 pH	15.07 °C	1,174.2 µS/cm	2.91 mg/L	39.71 NTU	216.6 mV	23.78 ft	110.00 ml/min
11/16/2023 10:08 AM	14:49	7.08 pH	15.05 °C	1,176.4 µS/cm	3.09 mg/L	33.47 NTU	217.2 mV	23.78 ft	110.00 ml/min

Samples

Sample ID:	Description:
MW-13S	

WELL SAMPLE FORM

Project Name:	Factory Street	Date:	11/15/2023
Project Number:	1042-1005	Well ID:	MW-14S
Project Manager:	LN	Field Personnel:	KG

WELL OBSERVATIONS

		Notes
Concrete Pad Condition:	Good	
Cover Secured:	YES	
Cap Secured:	YES	
Custody Seal Number:		

WELL MEASUREMENTS

Well Diameter:	2.0	inches
Screen Length:	10	feet
Total Depth:	30	feet
Screened Interval:	20 - 30	feet
Depth to Water:	21.19	feet
Height of Water Column:	8.81	feet
One Casing Volume:	1.43603	gallons

Factor * Water Column Height Equals Gallons	
Factor	Diameter
0.041	1.0" Well
0.092	1.5" Well
0.163	2.0" Well

Pump Volume by Pump Size:

X .850", 18" = 29 ml

.675", 18" = 15 ml

SAMPLE METHOD

Peristaltic Pump:		Model:		Tubing:			
Bladder Pump:	X	Model:	Geotech Geocontrol	Tubing:	TLPE	Bladder:	Teflon
Bailer:		Material:		Pump Placement (From TOC):	28	feet	
Pump placed in screened interval?:	YES			Tubing Length:	29	feet	

Start Time:	1214		
Finish Time:	1223	Volume Purged:	1.25 gallons
Visual Water Quality:	Clear	Waste Drum Id:	2
Recharge Rate:	Adequate	Notes:	

FLOW RATE & STABILIZED WATER LEVEL

SWL #1:	21.2	SWL #2:	21.2	SWL #3:	21.2	Flow Rate:	176 mL/min

Sample Identification: MW-14S

QA/QC:

Sample Time: 1225

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Low-Flow Test Report:

Test Date / Time: 11/15/2023 12:13:37 PM
Project: Factory Street (7)
Operator Name: KG

Location Name: MW-14S **Latitude: 41.620836490803974** **Longitude: -86.70211781755714** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 120 in** **Top of Screen: 20 ft** **Total Depth: 30 ft** **Initial Depth to Water: 21.19 ft**	**Pump Type: Bladder** **Tubing Type: Tlpe** **Tubing Inner Diameter: 0.125 in** **Tubing Length: 29 ft** **Pump Intake From TOC: 28 ft** **Estimated Total Volume Pumped: 1372.8 ml** **Flow Cell Volume: 130 ml** **Final Flow Rate: 176 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 600** **Serial Number: 707273**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10		
11/15/2023 12:13 PM	00:00	7.14 pH	14.60 °C	1,181.0 µS/cm	2.64 mg/L	6.47 NTU	-54.5 mV	21.19 ft	176.00 ml/min
11/15/2023 12:14 PM	01:18	7.12 pH	14.39 °C	1,182.2 µS/cm	0.90 mg/L	6.14 NTU	-27.8 mV	21.19 ft	176.00 ml/min
11/15/2023 12:16 PM	02:36	7.12 pH	14.32 °C	1,179.2 µS/cm	0.82 mg/L	2.58 NTU	-15.7 mV	21.19 ft	176.00 ml/min
11/15/2023 12:17 PM	03:54	7.11 pH	14.32 °C	1,174.5 µS/cm	0.85 mg/L	3.23 NTU	-8.1 mV	21.19 ft	176.00 ml/min
11/15/2023 12:18 PM	05:12	7.11 pH	14.31 °C	1,169.1 µS/cm	0.89 mg/L	4.10 NTU	-2.5 mV	21.19 ft	176.00 ml/min
11/15/2023 12:20 PM	06:30	7.11 pH	14.32 °C	1,166.7 µS/cm	0.92 mg/L	3.98 NTU	2.0 mV	21.19 ft	176.00 ml/min
11/15/2023 12:21 PM	07:48	7.11 pH	14.32 °C	1,162.6 µS/cm	0.95 mg/L	2.87 NTU	5.6 mV	21.19 ft	176.00 ml/min

Samples

Sample ID:	Description:

WELL SAMPLE FORM

Project Name:	Factory Street	Date:	11/15/2023
Project Number:	1042-1005	Well ID:	MW-15S
Project Manager:	LN	Field Personnel:	KG

WELL OBSERVATIONS

		Notes
Concrete Pad Condition:	Good	
Cover Secured:	YES	
Cap Secured:	YES	
Custody Seal Number:		

WELL MEASUREMENTS

Well Diameter:	2.0	inches
Screen Length:	10	feet
Total Depth:	30	feet
Screened Interval:	20 - 30	feet
Depth to Water:	25.18	feet
Height of Water Column:	4.82	feet
One Casing Volume:	0.78566	gallons

Factor * Water Column Height Equals Gallons	
Factor	Diameter
0.041	1.0" Well
0.092	1.5" Well
0.163	2.0" Well

Pump Volume by Pump Size:

X .850", 18" = 29 ml

.675", 18" = 15 ml

SAMPLE METHOD

Peristaltic Pump:		Model:		Tubing:		
Bladder Pump:	X	Model:	Geotech Geocontrol	Tubing:	TLPE	Bladder: Teflon
Bailer:		Material:		Pump Placement (From TOC):	28	feet
Pump placed in screened interval?:	YES			Tubing Length:	30	feet

Start Time:	1613		
Finish Time:	1624	Volume Purged:	1 gallons
Visual Water Quality:	Clear	Waste Drum Id:	2
Recharge Rate:	Adequate	Notes:	

FLOW RATE & STABILIZED WATER LEVEL

SWL #1:	25.22	SWL #2:	25.22	SWL #3:	25.22	Flow Rate:	214 mL/min

Sample Identification: MW-15S

QA/QC:

Sample Time: 1625

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Low-Flow Test Report:

Test Date / Time: 11/15/2023 4:12:45 PM
Project: Factory Street (10)
Operator Name: KG

Location Name: MW-15S **Latitude: 41.62058599762789** **Longitude: -86.70598388657599** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 120 ft** **Top of Screen: 20 ft** **Total Depth: 30 ft** **Initial Depth to Water: 25.18 ft**	**Pump Type: Bladder** **Tubing Type: Tlpe** **Tubing Inner Diameter: 0.125 in** **Tubing Length: 30 ft** **Pump Intake From TOC: 28 ft** **Estimated Total Volume Pumped: 2282.667 ml** **Flow Cell Volume: 130 ml** **Final Flow Rate: 214 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 600** **Serial Number: 707273**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10		
11/15/2023 4:12 PM	00:00	7.00 pH	15.91 °C	1,495.7 µS/cm	2.27 mg/L	16.09 NTU	43.2 mV	25.18 ft	214.00 ml/min
11/15/2023 4:13 PM	01:04	7.00 pH	15.90 °C	1,504.8 µS/cm	1.23 mg/L	16.40 NTU	46.8 mV	25.18 ft	214.00 ml/min
11/15/2023 4:14 PM	02:08	6.99 pH	15.92 °C	1,507.1 µS/cm	1.11 mg/L	13.84 NTU	48.8 mV	25.18 ft	214.00 ml/min
11/15/2023 4:15 PM	03:12	7.00 pH	15.92 °C	1,508.7 µS/cm	1.06 mg/L	9.26 NTU	49.4 mV	25.18 ft	214.00 ml/min
11/15/2023 4:17 PM	04:16	6.99 pH	15.93 °C	1,509.4 µS/cm	1.05 mg/L	8.88 NTU	49.9 mV	25.18 ft	214.00 ml/min
11/15/2023 4:18 PM	05:20	6.99 pH	15.92 °C	1,509.3 µS/cm	1.04 mg/L	10.36 NTU	50.2 mV	25.18 ft	214.00 ml/min
11/15/2023 4:19 PM	06:24	7.00 pH	15.92 °C	1,510.3 µS/cm	1.05 mg/L	6.23 NTU	50.4 mV	25.18 ft	214.00 ml/min
11/15/2023 4:20 PM	07:28	6.99 pH	15.91 °C	1,510.5 µS/cm	1.04 mg/L	8.00 NTU	50.8 mV	25.18 ft	214.00 ml/min
11/15/2023 4:21 PM	08:32	6.99 pH	15.91 °C	1,510.1 µS/cm	1.03 mg/L	5.11 NTU	51.5 mV	25.18 ft	214.00 ml/min
11/15/2023 4:22 PM	09:36	7.00 pH	15.91 °C	1,511.3 µS/cm	1.05 mg/L	5.07 NTU	52.1 mV	25.18 ft	214.00 ml/min
11/15/2023 4:23 PM	10:40	7.00 pH	15.90 °C	1,511.5 µS/cm	1.04 mg/L	3.82 NTU	52.7 mV	25.18 ft	214.00 ml/min

Samples

Sample ID:	Description:

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WELL SAMPLE FORM

Project Name:	Factory Street	Date:	11/16/2023
Project Number:	1042-1005	Well ID:	MW-16S
Project Manager:	LN	Field Personnel:	KG

WELL OBSERVATIONS

		Notes
Concrete Pad Condition:	Good	
Cover Secured:	YES	
Cap Secured:	YES	
Custody Seal Number:		

WELL MEASUREMENTS

Well Diameter:	2.0	inches
Screen Length:	10	feet
Total Depth:	30	feet
Screened Interval:	20 - 30	feet
Depth to Water:	27.5	feet
Height of Water Column:	2.5	feet
One Casing Volume:	0.4075	gallons

Factor * Water Column Height Equals Gallons	
Factor	Diameter
0.041	1.0" Well
0.092	1.5" Well
0.163	2.0" Well

Pump Volume by Pump Size:

X .850", 18" = 29 ml

.675", 18" = 15 ml

SAMPLE METHOD

Peristaltic Pump:		Model:		Tubing:			
Bladder Pump:	X	Model:	Geotech Geocontrol	Tubing:	TLPE	Bladder:	Teflon
Bailer:		Material:		Pump Placement (From TOC):	29.5	feet	
Pump placed in screened interval?:	YES	Tubing Length:	30	feet			

Start Time:	1025		
Finish Time:	1034	Volume Purged:	0.5 gallons
Visual Water Quality:	Clear	Waste Drum Id:	2
Recharge Rate:	Adequate	Notes:water has odor	

FLOW RATE & STABILIZED WATER LEVEL

SWL #1:	27.58	SWL #2:	27.58	SWL #3:	27.58	Flow Rate:	130 mL/min

Sample Identification: MW-16S

QA/QC:

Sample Time: 1035

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Low-Flow Test Report:

Test Date / Time: 11/16/2023 10:25:13 AM
Project: Factory Street (11)
Operator Name: KG

Location Name: MW-16S **Latitude: 41.62155628673903** **Longitude: -86.70625965119032** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 120 in** **Top of Screen: 20 ft** **Total Depth: 30 ft** **Initial Depth to Water: 27.5 ft**	**Pump Type: Bladder** **Tubing Type: Tlpe** **Tubing Inner Diameter: 0.125 in** **Tubing Length: 30 ft** **Pump Intake From TOC: 29.5 ft** **Estimated Total Volume Pumped: 1148.333 ml** **Flow Cell Volume: 130 ml** **Final Flow Rate: 130 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 600** **Serial Number: 707273**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10		
11/16/2023 10:25 AM	00:00	7.05 pH	15.54 °C	964.59 µS/cm	3.71 mg/L	2.95 NTU	136.6 mV	27.50 ft	130.00 ml/min
11/16/2023 10:26 AM	01:46	6.92 pH	15.56 °C	949.42 µS/cm	3.20 mg/L	1.21 NTU	118.8 mV	27.50 ft	130.00 ml/min
11/16/2023 10:28 AM	03:32	6.92 pH	15.56 °C	944.07 µS/cm	3.13 mg/L	1.07 NTU	109.7 mV	27.50 ft	130.00 ml/min
11/16/2023 10:30 AM	05:18	6.93 pH	15.55 °C	942.90 µS/cm	3.12 mg/L	0.06 NTU	102.6 mV	27.50 ft	130.00 ml/min
11/16/2023 10:32 AM	07:04	6.94 pH	15.54 °C	941.13 µS/cm	3.11 mg/L	0.32 NTU	99.5 mV	27.50 ft	130.00 ml/min
11/16/2023 10:34 AM	08:50	6.95 pH	15.53 °C	941.17 µS/cm	3.10 mg/L	0.00 NTU	98.4 mV	27.50 ft	130.00 ml/min

Samples

Sample ID:	Description:

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WELL SAMPLE FORM

Project Name:	Factory Street	Date:	11/15/2023
Project Number:	1042-1005	Well ID:	MW-19S
Project Manager:	LN	Field Personnel:	KG

WELL OBSERVATIONS

		Notes
Concrete Pad Condition:	Good	
Cover Secured:	YES	
Cap Secured:	YES	
Custody Seal Number:		

WELL MEASUREMENTS

Well Diameter:	2.0	inches
Screen Length:	10	feet
Total Depth:	28	feet
Screened Interval:	18 - 28	feet
Depth to Water:	25.21	feet
Height of Water Column:	2.79	feet
One Casing Volume:	0.45477	gallons

Factor * Water Column Height Equals Gallons	
Factor	Diameter
0.041	1.0" Well
0.092	1.5" Well
0.163	2.0" Well

Pump Volume by Pump Size:

X .850", 18" = 29 ml

.675", 18" = 15 ml

SAMPLE METHOD

Peristaltic Pump:		Model:		Tubing:		
Bladder Pump:	X	Model:	Geotech Geocontrol	Tubing:	TLPE	Bladder: Teflon
Bailer:		Material:		Pump Placement (From TOC):	26	feet
Pump placed in screened interval?:	YES			Tubing Length:	28	feet

Start Time:	1338		
Finish Time:	1411	Volume Purged:	1.75 gallons
Visual Water Quality:	Clear	Waste Drum Id:	2
Recharge Rate:	Adequate	Notes:	

FLOW RATE & STABILIZED WATER LEVEL

SWL #1:	25.22	SWL #2:	25.23	SWL #3:	25.23	Flow Rate:	120 mL/min

Sample Identification: MW-19S

QA/QC:

Sample Time: 1415

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Low-Flow Test Report:

Test Date / Time: 11/15/2023 1:38:21 PM
Project: Factory Street (8)
Operator Name: KG

Location Name: MW-19S **Latitude: 41.62198590118609** **Longitude: -86.7043337412986** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 120 in** **Top of Screen: 18 ft** **Total Depth: 28 ft** **Initial Depth to Water: 25.21 ft**	**Pump Type: Bladder** **Tubing Type: Tlpe** **Tubing Inner Diameter: 0.125 in** **Tubing Length: 28 ft** **Pump Intake From TOC: 26 ft** **Estimated Total Volume Pumped: 3842 ml** **Flow Cell Volume: 130 ml** **Final Flow Rate: 120 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 600** **Serial Number: 707273**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10		
11/15/2023 1:38 PM	00:00	7.39 pH	15.36 °C	551.60 µS/cm	6.77 mg/L	32.22 NTU	13.1 mV	25.21 ft	120.00 ml/min
11/15/2023 1:40 PM	01:53	7.27 pH	14.95 °C	578.68 µS/cm	6.22 mg/L	36.10 NTU	27.3 mV	25.21 ft	120.00 ml/min
11/15/2023 1:42 PM	03:46	7.25 pH	14.84 °C	594.89 µS/cm	5.90 mg/L	32.30 NTU	33.5 mV	25.21 ft	120.00 ml/min
11/15/2023 1:44 PM	05:39	7.23 pH	14.78 °C	604.52 µS/cm	5.69 mg/L	24.02 NTU	37.9 mV	25.21 ft	120.00 ml/min
11/15/2023 1:45 PM	07:32	7.23 pH	14.72 °C	608.42 µS/cm	5.58 mg/L	19.76 NTU	40.0 mV	25.21 ft	120.00 ml/min
11/15/2023 1:47 PM	09:25	7.23 pH	14.74 °C	613.49 µS/cm	5.50 mg/L	16.88 NTU	41.9 mV	25.21 ft	120.00 ml/min
11/15/2023 1:49 PM	11:18	7.23 pH	14.73 °C	615.58 µS/cm	5.43 mg/L	16.85 NTU	43.1 mV	25.21 ft	120.00 ml/min
11/15/2023 1:51 PM	13:11	7.22 pH	14.71 °C	618.53 µS/cm	5.38 mg/L	13.99 NTU	44.2 mV	25.21 ft	120.00 ml/min
11/15/2023 1:53 PM	15:04	7.23 pH	14.72 °C	620.74 µS/cm	5.33 mg/L	10.05 NTU	44.9 mV	25.21 ft	120.00 ml/min
11/15/2023 1:55 PM	16:57	7.22 pH	14.69 °C	622.11 µS/cm	5.29 mg/L	11.73 NTU	46.0 mV	25.21 ft	120.00 ml/min
11/15/2023 1:57 PM	18:50	7.21 pH	14.71 °C	622.71 µS/cm	5.26 mg/L	13.09 NTU	47.0 mV	25.21 ft	120.00 ml/min
11/15/2023 1:59 PM	20:43	7.22 pH	14.65 °C	623.80 µS/cm	5.22 mg/L	9.99 NTU	47.4 mV	25.21 ft	120.00 ml/min
11/15/2023 2:00 PM	22:36	7.21 pH	14.68 °C	625.38 µS/cm	5.21 mg/L	8.04 NTU	48.2 mV	25.21 ft	120.00 ml/min
11/15/2023 2:02 PM	24:29	7.22 pH	14.65 °C	624.93 µS/cm	5.21 mg/L	6.53 NTU	48.4 mV	25.21 ft	120.00 ml/min

11/15/2023 2:04 PM	26:22	7.21 pH	14.67 °C	626.22 µS/cm	5.19 mg/L	6.70 NTU	49.2 mV	25.21 ft	120.00 ml/min
11/15/2023 2:06 PM	28:15	7.22 pH	14.63 °C	626.74 µS/cm	5.17 mg/L	5.88 NTU	49.3 mV	25.21 ft	120.00 ml/min
11/15/2023 2:08 PM	30:08	7.21 pH	14.64 °C	626.67 µS/cm	5.15 mg/L	5.98 NTU	50.0 mV	25.21 ft	120.00 ml/min
11/15/2023 2:10 PM	32:01	7.21 pH	14.63 °C	627.45 µS/cm	5.16 mg/L	5.48 NTU	50.6 mV	25.21 ft	120.00 ml/min

Samples

Sample ID:	Description:

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WELL SAMPLE FORM

Project Name:	Factory Street	Date:	11/15/2023
Project Number:	1042-1005	Well ID:	MW-20S
Project Manager:	LN	Field Personnel:	KG

WELL OBSERVATIONS

		Notes
Concrete Pad Condition:	Good	
Cover Secured:	YES	
Cap Secured:	YES	
Custody Seal Number:		

WELL MEASUREMENTS

Well Diameter:	2.0	inches
Screen Length:	10	feet
Total Depth:	28	feet
Screened Interval:	18 - 28	feet
Depth to Water:	24.37	feet
Height of Water Column:	3.63	feet
One Casing Volume:	0.59169	gallons

Factor * Water Column Height Equals Gallons	
Factor	Diameter
0.041	1.0" Well
0.092	1.5" Well
0.163	2.0" Well

Pump Volume by Pump Size:

X .850", 18" = 29 ml

.675", 18" = 15 ml

SAMPLE METHOD

Peristaltic Pump:		Model:		Tubing:			
Bladder Pump:	X	Model:	Geotech Geocontrol	Tubing:	TLPE	Bladder:	Teflon
Bailer:		Material:		Pump Placement (From TOC):	26	feet	
Pump placed in screened interval?:	YES			Tubing Length:	27	feet	

Start Time:	1455		
Finish Time:	1502	Volume Purged:	0.5 gallons
Visual Water Quality:	Clear	Waste Drum Id:	2
Recharge Rate:	Adequate	Notes:	

FLOW RATE & STABILIZED WATER LEVEL

SWL #1:	24.37	SWL #2:	24.37	SWL #3:	24.37	Flow Rate:	172 mL/min

Sample Identification: MW-20S

QA/QC:

Sample Time: 1505

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Low-Flow Test Report:

Test Date / Time: 11/15/2023 2:55:58 PM
Project: Factory Street (9)
Operator Name: KG

Location Name: MW-20S **Latitude: 41.62223819647135** **Longitude: -86.70450674378006** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 120 in** **Top of Screen: 18 ft** **Total Depth: 28 ft** **Initial Depth to Water: 24.37 ft**	**Pump Type: Bladder** **Tubing Type: Tlpe** **Tubing Inner Diameter: 0.125 in** **Tubing Length: 27 ft** **Pump Intake From TOC: 26 ft** **Estimated Total Volume Pumped: 894.4 ml** **Flow Cell Volume: 130 ml** **Final Flow Rate: 172 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 600** **Serial Number: 707273**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10		
11/15/2023 2:55 PM	00:00	7.14 pH	14.44 °C	833.56 µS/cm	4.84 mg/L	5.11 NTU	59.9 mV	24.37 ft	172.00 ml/min
11/15/2023 2:57 PM	01:18	7.13 pH	14.30 °C	832.56 µS/cm	4.50 mg/L	1.57 NTU	62.1 mV	24.37 ft	172.00 ml/min
11/15/2023 2:58 PM	02:36	7.13 pH	14.26 °C	828.35 µS/cm	4.39 mg/L	0.74 NTU	63.1 mV	24.37 ft	172.00 ml/min
11/15/2023 2:59 PM	03:54	7.13 pH	14.24 °C	825.95 µS/cm	4.32 mg/L	0.39 NTU	63.6 mV	24.37 ft	172.00 ml/min
11/15/2023 3:01 PM	05:12	7.12 pH	14.23 °C	825.07 µS/cm	4.28 mg/L	0.09 NTU	63.8 mV	24.37 ft	172.00 ml/min

Samples

Sample ID:	Description:

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WELL SAMPLE FORM

Project Name:	Factory Street	Date:	11/16/2023
Project Number:	1042-1005	Well ID:	OW-1S
Project Manager:	LN	Field Personnel:	KG

WELL OBSERVATIONS

		Notes
Concrete Pad Condition:	Good	
Cover Secured:	YES	
Cap Secured:	YES	
Custody Seal Number:		

WELL MEASUREMENTS

Well Diameter:	2.0	inches
Screen Length:	10	feet
Total Depth:	30	feet
Screened Interval:	20 - 30	feet
Depth to Water:	27.65	feet
Height of Water Column:	2.35	feet
One Casing Volume:	0.38305	gallons

Factor * Water Column Height Equals Gallons	
Factor	Diameter
0.041	1.0" Well
0.092	1.5" Well
0.163	2.0" Well

Pump Volume by Pump Size:

X .850", 18" = 29 ml

.675", 18" = 15 ml

SAMPLE METHOD

Peristaltic Pump:		Model:		Tubing:			
Bladder Pump:	X	Model:	Geotech Geocontrol	Tubing:	TLPE	Bladder:	Teflon
Bailer:		Material:		Pump Placement (From TOC):	29.75	feet	
Pump placed in screened interval?:	YES	Tubing Length:	30	feet			
Start Time:	1335						
Finish Time:	1504	Volume Purged:	2	gallons			
Visual Water Quality:	Clear	Waste Drum Id:	1				
Recharge Rate:	Adequate	Notes:					

FLOW RATE & STABILIZED WATER LEVEL

SWL #1:	27.83	SWL #2:	27.8	SWL #3:	27.79	Flow Rate:	50 mL/min

Sample Identification: OW-1S

QA/QC:

Sample Time: 1505

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Low-Flow Test Report:

Test Date / Time: 11/16/2023 1:35:30 PM
Project: Factory Street (13)
Operator Name: KG

Location Name: OW-1S **Latitude: 41.621538693468864** **Longitude: -86.70522010864278** **Well Diameter: 2 cm** **Casing Type: PVC** **Screen Length: 120 m** **Top of Screen: 20 m** **Total Depth: 30 m** **Initial Depth to Water: 27.65 ft**	**Pump Type: Bladder** **Tubing Type: Tlpe** **Tubing Inner Diameter: 0.125 in** **Tubing Length: 30 ft** **Pump Intake From TOC: 29.75 ft** **Estimated Total Volume Pumped: 4385.833 ml** **Flow Cell Volume: 130 ml** **Final Flow Rate: 50 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 600** **Serial Number: 707273**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10		
11/16/2023 1:35 PM	00:00	7.85 pH	18.55 °C	435.92 µS/cm	9.89 mg/L	187.49 NTU	79.9 mV	27.65 ft	50.00 ml/min
11/16/2023 1:40 PM	04:37	7.95 pH	18.45 °C	431.19 µS/cm	9.91 mg/L	155.64 NTU	80.9 mV	27.65 ft	50.00 ml/min
11/16/2023 1:44 PM	09:14	7.97 pH	18.43 °C	430.94 µS/cm	9.93 mg/L	130.12 NTU	77.7 mV	27.65 ft	50.00 ml/min
11/16/2023 1:49 PM	13:51	7.98 pH	18.43 °C	430.76 µS/cm	9.95 mg/L	81.97 NTU	75.0 mV	27.65 ft	50.00 ml/min
11/16/2023 1:53 PM	18:28	7.98 pH	18.42 °C	430.69 µS/cm	9.94 mg/L	95.51 NTU	73.5 mV	27.65 ft	50.00 ml/min
11/16/2023 1:58 PM	23:05	7.99 pH	18.43 °C	430.74 µS/cm	9.95 mg/L	115.47 NTU	72.3 mV	27.65 ft	50.00 ml/min
11/16/2023 2:03 PM	27:42	7.99 pH	18.42 °C	430.63 µS/cm	9.94 mg/L	69.78 NTU	71.5 mV	27.65 ft	50.00 ml/min
11/16/2023 2:07 PM	32:19	7.99 pH	18.44 °C	430.71 µS/cm	9.95 mg/L	56.50 NTU	71.3 mV	27.65 ft	50.00 ml/min
11/16/2023 2:12 PM	36:56	7.99 pH	18.43 °C	430.70 µS/cm	9.95 mg/L	64.41 NTU	71.0 mV	27.65 ft	50.00 ml/min
11/16/2023 2:17 PM	41:33	8.00 pH	18.41 °C	430.66 µS/cm	9.96 mg/L	30.70 NTU	70.4 mV	27.65 ft	50.00 ml/min
11/16/2023 2:21 PM	46:10	7.99 pH	18.37 °C	430.65 µS/cm	9.96 mg/L	36.01 NTU	70.3 mV	27.65 ft	50.00 ml/min
11/16/2023 2:26 PM	50:47	8.00 pH	18.36 °C	430.77 µS/cm	9.96 mg/L	29.43 NTU	70.1 mV	27.65 ft	50.00 ml/min
11/16/2023 2:30 PM	55:24	8.00 pH	18.34 °C	430.77 µS/cm	9.96 mg/L	16.10 NTU	70.0 mV	27.65 ft	50.00 ml/min
11/16/2023 2:35 PM	01:00:01	8.00 pH	18.36 °C	430.88 µS/cm	9.97 mg/L	17.91 NTU	70.3 mV	27.65 ft	50.00 ml/min

11/16/2023 2:40 PM	01:04:38	8.00 pH	18.37 °C	430.96 µS/cm	9.97 mg/L	12.89 NTU	70.2 mV	27.65 ft	50.00 ml/min
11/16/2023 2:44 PM	01:09:15	8.00 pH	18.35 °C	431.04 µS/cm	9.96 mg/L	11.16 NTU	70.1 mV	27.65 ft	50.00 ml/min
11/16/2023 2:49 PM	01:13:52	8.00 pH	18.34 °C	431.04 µS/cm	9.96 mg/L	10.20 NTU	70.2 mV	27.65 ft	50.00 ml/min
11/16/2023 2:53 PM	01:18:29	8.00 pH	18.34 °C	431.22 µS/cm	9.96 mg/L	7.70 NTU	70.3 mV	27.65 ft	50.00 ml/min
11/16/2023 2:58 PM	01:23:06	8.00 pH	18.35 °C	431.32 µS/cm	9.97 mg/L	6.72 NTU	70.3 mV	27.65 ft	50.00 ml/min
11/16/2023 3:03 PM	01:27:43	8.00 pH	18.35 °C	431.38 µS/cm	9.96 mg/L	5.56 NTU	70.8 mV	27.65 ft	50.00 ml/min

Samples

Sample ID:	Description:

WELL SAMPLE FORM

Project Name:	Factory Street	Date:	11/16/2023
Project Number:	1042-1005	Well ID:	OW-1D
Project Manager:	LN	Field Personnel:	MG

WELL OBSERVATIONS

		Notes
Concrete Pad Condition:	Good	
Cover Secured:	YES	
Cap Secured:	YES	
Custody Seal Number:		

WELL MEASUREMENTS

Well Diameter:	2.0	inches
Screen Length:	5	feet
Total Depth:	55	feet
Screened Interval:	50 - 55	feet
Depth to Water:	27.61	feet
Height of Water Column:	27.39	feet
One Casing Volume:	4.46457	gallons

Factor * Water Column Height Equals Gallons	
Factor	Diameter
0.041	1.0" Well
0.092	1.5" Well
0.163	2.0" Well

Pump Volume by Pump Size:

X .850", 18" = 29 ml

.675", 18" = 15 ml

SAMPLE METHOD

Peristaltic Pump:		Model:		Tubing:		
Bladder Pump:	X	Model:	Geotech Geocontrol	Tubing:	TLPE	Bladder: Teflon
Bailer:		Material:		Pump Placement (From TOC):	53	feet

Pump placed in screened interval?: YES Tubing Length: 56 feet

Start Time:	815		
Finish Time:	902	Volume Purged:	1.25 gallons
Visual Water Quality:	Clear	Waste Drum Id:	4
Recharge Rate:	Adequate	Notes:	Turbidity extremely high, had to stop test clean pump, let run to try and reduce turbidity. No reduction in turbidity. Pull pump and will try tomorrow.

FLOW RATE & STABILIZED WATER LEVEL

SWL #1:	SWL #2:	SWL #3:	Flow Rate:
27.61	27.6	27.61	125 mL/min

Sample Identification: OW-1D

QA/QC: N/A

Sample Time: 905

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Low-Flow Test Report:

Test Date / Time: 11/16/2023 8:48:35 AM
Project: Factory Street Q4 2023
Operator Name: M. Grzegorek

Location Name: OW-1D **Latitude: 41.62161491815172** **Longitude: -86.70520856053261** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 50 ft** **Total Depth: 55 ft** **Initial Depth to Water: 27.61 ft**	**Pump Type: Bladder** **Tubing Type: TLPE** **Tubing Inner Diameter: 0.125 in** **Tubing Length: 56 ft** **Pump Intake From TOC: 53 ft** **Estimated Total Volume Pumped: 1175 ml** **Flow Cell Volume: 130 ml** **Final Flow Rate: 125 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 600** **Serial Number: 867255**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10	+/- 10 %	+/- 10		
11/16/2023 8:48 AM	00:00	6.92 pH	16.49 °C	1,239.6 µS/cm	7.16 mg/L	395.81 NTU	224.4 mV	27.61 ft	125.00 ml/min
11/16/2023 8:50 AM	02:21	7.05 pH	16.58 °C	1,224.0 µS/cm	5.84 mg/L	269.03 NTU	225.9 mV	27.61 ft	125.00 ml/min
11/16/2023 8:53 AM	04:42	7.07 pH	16.63 °C	1,221.5 µS/cm	5.79 mg/L	255.54 NTU	220.0 mV	27.61 ft	125.00 ml/min
11/16/2023 8:55 AM	07:03	7.08 pH	16.68 °C	1,222.1 µS/cm	5.59 mg/L	250.60 NTU	218.7 mV	27.61 ft	125.00 ml/min
11/16/2023 8:57 AM	09:24	7.10 pH	16.67 °C	1,222.4 µS/cm	5.55 mg/L	253.79 NTU	218.7 mV	27.61 ft	125.00 ml/min

Samples

Sample ID:	Description:
OW-1D	

WELL SAMPLE FORM

Project Name:	Factory Street	Date:	11/16/2023
Project Number:	1042-1005	Well ID:	OW-2S
Project Manager:	LN	Field Personnel:	KG

WELL OBSERVATIONS

		Notes
Concrete Pad Condition:	Good	
Cover Secured:	YES	
Cap Secured:	YES	
Custody Seal Number:		

WELL MEASUREMENTS

Well Diameter:	2.0	inches
Screen Length:	10	feet
Total Depth:	30	feet
Screened Interval:	20 - 30	feet
Depth to Water:	27.8	feet
Height of Water Column:	2.2	feet
One Casing Volume:	0.3586	gallons

Factor * Water Column Height Equals Gallons	
Factor	Diameter
0.041	1.0" Well
0.092	1.5" Well
0.163	2.0" Well

Pump Volume by Pump Size:

X .850", 18" = 29 ml

.675", 18" = 15 ml

SAMPLE METHOD

Peristaltic Pump:		Model:		Tubing:			
Bladder Pump:	X	Model:	Geotech Geocontrol	Tubing:	TLPE	Bladder:	Teflon
Bailer:		Material:		Pump Placement (From TOC):	29.75	feet	
Pump placed in screened interval?:	YES	Tubing Length:	30	feet			

Start Time:	1705		
Finish Time:	1745	Volume Purged:	2 gallons
Visual Water Quality:	Clear	Waste Drum Id:	1
Recharge Rate:	Adequate	Notes:	

FLOW RATE & STABILIZED WATER LEVEL

SWL #1:	27.85	SWL #2:	27.95	SWL #3:	27.95	Flow Rate:	94 mL/min

Sample Identification: OW-2S

QA/QC: DUP-2

Sample Time: 1750

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Low-Flow Test Report:

Test Date / Time: 11/16/2023 5:05:24 PM
Project: Factory Street (14)
Operator Name: KG

Location Name: OW-2S **Latitude: 41.62158273164354** **Longitude: -86.70542439453928** **Well Diameter: 2 cm** **Casing Type: PVC** **Screen Length: 120 m** **Top of Screen: 20 m** **Total Depth: 30 m** **Initial Depth to Water: 27.8 ft**	**Pump Type: Bladder** **Tubing Type: Tlpe** **Tubing Inner Diameter: 0.125 in** **Tubing Length: 30 ft** **Pump Intake From TOC: 29.75 ft** **Estimated Total Volume Pumped: 4145.4 ml** **Flow Cell Volume: 130 ml** **Final Flow Rate: 94 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 600** **Serial Number: 707273**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10		
11/16/2023 5:05 PM	00:00	7.70 pH	17.72 °C	586.38 µS/cm	9.68 mg/L	225.89 NTU	68.5 mV	27.80 ft	94.00 ml/min
11/16/2023 5:07 PM	02:27	7.66 pH	17.39 °C	591.29 µS/cm	9.80 mg/L	219.24 NTU	71.2 mV	27.80 ft	94.00 ml/min
11/16/2023 5:10 PM	04:54	7.66 pH	17.26 °C	596.26 µS/cm	9.83 mg/L	142.19 NTU	70.8 mV	27.80 ft	94.00 ml/min
11/16/2023 5:12 PM	07:21	7.65 pH	17.23 °C	597.12 µS/cm	9.84 mg/L	100.40 NTU	71.0 mV	27.80 ft	94.00 ml/min
11/16/2023 5:15 PM	09:48	7.66 pH	17.18 °C	596.83 µS/cm	9.87 mg/L	64.97 NTU	70.8 mV	27.80 ft	94.00 ml/min
11/16/2023 5:17 PM	12:15	7.66 pH	17.17 °C	595.55 µS/cm	9.86 mg/L	82.26 NTU	71.3 mV	27.80 ft	94.00 ml/min
11/16/2023 5:20 PM	14:42	7.66 pH	17.16 °C	594.80 µS/cm	9.87 mg/L	39.69 NTU	71.2 mV	27.80 ft	94.00 ml/min
11/16/2023 5:22 PM	17:09	7.65 pH	17.14 °C	593.39 µS/cm	9.88 mg/L	51.93 NTU	71.6 mV	27.80 ft	94.00 ml/min
11/16/2023 5:25 PM	19:36	7.66 pH	17.16 °C	592.80 µS/cm	9.88 mg/L	33.09 NTU	71.8 mV	27.80 ft	94.00 ml/min
11/16/2023 5:27 PM	22:03	7.65 pH	17.15 °C	591.78 µS/cm	9.88 mg/L	37.24 NTU	72.0 mV	27.80 ft	94.00 ml/min
11/16/2023 5:29 PM	24:30	7.65 pH	17.16 °C	591.03 µS/cm	9.88 mg/L	42.06 NTU	72.6 mV	27.80 ft	94.00 ml/min
11/16/2023 5:32 PM	26:57	7.66 pH	17.15 °C	590.45 µS/cm	9.89 mg/L	23.75 NTU	72.2 mV	27.80 ft	94.00 ml/min
11/16/2023 5:34 PM	29:24	7.65 pH	17.16 °C	589.83 µS/cm	9.89 mg/L	27.04 NTU	72.6 mV	27.80 ft	94.00 ml/min
11/16/2023 5:37 PM	31:51	7.66 pH	17.15 °C	589.36 µS/cm	9.90 mg/L	15.25 NTU	72.3 mV	27.80 ft	94.00 ml/min

11/16/2023 5:39 PM	34:18	7.66 pH	17.15 °C	588.82 µS/cm	9.90 mg/L	13.07 NTU	72.6 mV	27.80 ft	94.00 ml/min
11/16/2023 5:42 PM	36:45	7.66 pH	17.14 °C	589.03 µS/cm	9.90 mg/L	18.26 NTU	72.5 mV	27.80 ft	94.00 ml/min
11/16/2023 5:44 PM	39:12	7.66 pH	17.13 °C	588.88 µS/cm	9.91 mg/L	24.09 NTU	73.0 mV	27.80 ft	94.00 ml/min
11/16/2023 5:47 PM	41:39	7.66 pH	17.14 °C	588.87 µS/cm	9.91 mg/L	13.60 NTU	72.9 mV	27.80 ft	94.00 ml/min
11/16/2023 5:49 PM	44:06	7.66 pH	17.14 °C	588.70 µS/cm	9.91 mg/L	8.57 NTU	73.1 mV	27.80 ft	94.00 ml/min

Samples

Sample ID:	Description:

WELL SAMPLE FORM

Project Name:	Factory Street	Date:	11/15/2023
Project Number:	1042-1005	Well ID:	OW-2D
Project Manager:	LN	Field Personnel:	MG

WELL OBSERVATIONS

		Notes
Concrete Pad Condition:	Good	
Cover Secured:	YES	
Cap Secured:	YES	
Custody Seal Number:		

WELL MEASUREMENTS

Well Diameter:	2.0	inches
Screen Length:	5	feet
Total Depth:	55	feet
Screened Interval:	50 - 55	feet
Depth to Water:	27.65	feet
Height of Water Column:	27.35	feet
One Casing Volume:	4.45805	gallons

Factor * Water Column Height Equals Gallons	
Factor	Diameter
0.041	1.0" Well
0.092	1.5" Well
0.163	2.0" Well

Pump Volume by Pump Size:

X .850", 18" = 29 ml

.675", 18" = 15 ml

SAMPLE METHOD

Peristaltic Pump:		Model:		Tubing:		
Bladder Pump:	X	Model:	Geotech Geocontrol	Tubing:	TLPE	Bladder: Teflon
Bailer:		Material:				

Pump Placement (From TOC): 53 feet

Pump placed in screened interval?: YES

Tubing Length: 56 feet

Start Time:	1225		
Finish Time:	1342	Volume Purged:	2 gallons
Visual Water Quality:	Clear	Waste Drum Id:	4
Recharge Rate:	Adequate	Notes:	

FLOW RATE & STABILIZED WATER LEVEL

SWL #1:	27.65	SWL #2:	27.65	SWL #3:	27.65	Flow Rate:	150 mL/min

Sample Identification: OW-2D

QA/QC: N/A

Sample Time: 1345

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Low-Flow Test Report:

Test Date / Time: 11/15/2023 12:34:29 PM
Project: Factory Street Q4 2023
Operator Name: M. Grzegorek

Location Name: OW-2D **Latitude: 41.62156885959379** **Longitude: -86.70527611867217** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 50 ft** **Total Depth: 55 ft** **Initial Depth to Water: 27.65 ft**	**Pump Type: Bladder** **Tubing Type: TLPE** **Tubing Inner Diameter: 0.125 in** **Tubing Length: 56 ft** **Pump Intake From TOC: 53 ft** **Estimated Total Volume Pumped: 10000 ml** **Flow Cell Volume: 130 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 600** **Serial Number: 867255**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10	+/- 10 %	+/- 10		
11/15/2023 12:34 PM	00:00	7.15 pH	18.22 °C	1,125.5 µS/cm	4.47 mg/L	211.14 NTU	-41.7 mV	27.65 ft	150.00 ml/min
11/15/2023 12:37 PM	02:40	7.10 pH	16.63 °C	1,099.0 µS/cm	3.65 mg/L	266.06 NTU	-55.1 mV	27.65 ft	150.00 ml/min
11/15/2023 12:39 PM	05:20	7.09 pH	16.36 °C	1,098.7 µS/cm	3.33 mg/L	227.46 NTU	-63.0 mV	27.65 ft	150.00 ml/min
11/15/2023 12:42 PM	08:00	7.08 pH	16.25 °C	1,099.5 µS/cm	3.00 mg/L	188.42 NTU	-70.7 mV	27.65 ft	150.00 ml/min
11/15/2023 12:45 PM	10:40	7.07 pH	16.16 °C	1,100.9 µS/cm	2.62 mg/L	139.83 NTU	-79.8 mV	27.65 ft	150.00 ml/min
11/15/2023 12:47 PM	13:20	7.07 pH	16.11 °C	1,101.5 µS/cm	2.25 mg/L	98.74 NTU	-91.3 mV	27.65 ft	150.00 ml/min
11/15/2023 12:50 PM	16:00	7.06 pH	16.06 °C	1,102.3 µS/cm	1.96 mg/L	66.97 NTU	-101.6 mV	27.65 ft	150.00 ml/min
11/15/2023 12:53 PM	18:40	7.06 pH	16.03 °C	1,102.4 µS/cm	1.83 mg/L	60.96 NTU	-108.8 mV	27.65 ft	150.00 ml/min
11/15/2023 12:55 PM	21:20	7.06 pH	16.02 °C	1,101.8 µS/cm	1.85 mg/L	76.30 NTU	-113.9 mV	27.65 ft	150.00 ml/min
11/15/2023 12:58 PM	24:00	7.06 pH	16.00 °C	1,102.5 µS/cm	1.72 mg/L	60.87 NTU	-117.1 mV	27.65 ft	150.00 ml/min
11/15/2023 1:01 PM	26:40	7.06 pH	15.97 °C	1,102.3 µS/cm	1.71 mg/L	56.59 NTU	-120.3 mV	27.65 ft	150.00 ml/min
11/15/2023 1:03 PM	29:20	7.06 pH	15.95 °C	1,102.8 µS/cm	1.54 mg/L	52.60 NTU	-122.2 mV	27.65 ft	150.00 ml/min
11/15/2023 1:06 PM	32:00	7.07 pH	15.95 °C	1,101.5 µS/cm	1.78 mg/L	65.26 NTU	-122.8 mV	27.65 ft	150.00 ml/min
11/15/2023 1:09 PM	34:40	7.06 pH	15.93 °C	1,102.4 µS/cm	1.48 mg/L	50.86 NTU	-124.1 mV	27.65 ft	150.00 ml/min

11/15/2023 1:11 PM	37:20	7.06 pH	15.92 °C	1,101.2 µS/cm	1.51 mg/L	46.06 NTU	-125.9 mV	27.65 ft	150.00 ml/min
11/15/2023 1:14 PM	40:00	7.07 pH	15.92 °C	1,101.7 µS/cm	1.74 mg/L	55.55 NTU	-125.0 mV	27.65 ft	150.00 ml/min
11/15/2023 1:17 PM	42:40	7.07 pH	15.91 °C	1,102.5 µS/cm	1.71 mg/L	55.92 NTU	-125.1 mV	27.65 ft	150.00 ml/min
11/15/2023 1:19 PM	45:20	7.06 pH	15.90 °C	1,101.5 µS/cm	1.50 mg/L	49.35 NTU	-125.9 mV	27.65 ft	150.00 ml/min
11/15/2023 1:22 PM	48:00	7.06 pH	15.91 °C	1,101.9 µS/cm	1.40 mg/L	45.05 NTU	-127.2 mV	27.65 ft	150.00 ml/min
11/15/2023 1:25 PM	50:40	7.06 pH	15.91 °C	1,101.1 µS/cm	1.56 mg/L	51.81 NTU	-127.2 mV	27.65 ft	150.00 ml/min
11/15/2023 1:27 PM	53:20	7.06 pH	15.90 °C	1,101.4 µS/cm	1.48 mg/L	37.44 NTU	-127.0 mV	27.65 ft	150.00 ml/min
11/15/2023 1:30 PM	56:00	7.06 pH	15.90 °C	1,101.1 µS/cm	1.44 mg/L	42.80 NTU	-127.1 mV	27.65 ft	150.00 ml/min
11/15/2023 1:33 PM	58:40	7.06 pH	15.90 °C	1,100.7 µS/cm	1.60 mg/L	49.26 NTU	-126.8 mV	27.65 ft	150.00 ml/min
11/15/2023 1:35 PM	01:01:20	7.06 pH	15.91 °C	1,100.7 µS/cm	1.39 mg/L	40.20 NTU	-127.5 mV	27.65 ft	150.00 ml/min
11/15/2023 1:38 PM	01:04:00	7.06 pH	15.89 °C	1,101.1 µS/cm	1.39 mg/L	39.43 NTU	-127.4 mV	27.65 ft	150.00 ml/min
11/15/2023 1:41 PM	01:06:40	7.06 pH	15.91 °C	1,100.6 µS/cm	1.54 mg/L	41.05 NTU	-127.6 mV	27.65 ft	150.00 ml/min

Samples

Sample ID:	Description:
OW-2D	

Soil Gas Sampling Form

General Site Information			
Project Name:	Former Whirlpool Facility	**Date:**	**11/13/2023**
Location:	La Porte, Indiana		
Personnel:	MG	**Sample Point Identification:**	SG-1
Project No.#:	1042-1005		

Weather Conditions			
Current Weather:	56 and sunny		
Most Recent Rain Event:	November 1st		
Barometric Pressure:	30.33" rising	inHg	

Purge Volume Calculation			
Purge Method:	60 mL syringe connected to Swagelok® diverting valve		
Length of Tubing:	10 ft	Inner Diameter	0.17 inches
Volume of Tubing:	45		
Volume Purged:	135 mL	**Moisture Noted:**	No

Sample Collection Data				
	SG-1			**DUP-02**
Start Time:	1125	**Initial Pressure:**	-27.50	-29.5
Ending Time:	1130	**Final Pressure:**	-5.0	-5.0
Sample Container:	1 Liter Summa® Canister	**Canister Identification:**	020664	020496
Leak Detection:	Shut in - pass	**Flow Control Number:**	028822	009267
		Moisture Noted:	No	

Notes	Photographic Documentation
	Not Available.

Soil Gas Sampling Form

General Site Information			
Project Name:	Former Whirlpool Facility	**Date:**	**11/13/2023**
Location:	La Porte, Indiana		
Personnel:	MG	**Sample Point Identification:**	SG-2
Project No.#:	1042-1005		

Weather Conditions			
Current Weather:	56 and sunny		
Most Recent Rain Event:	November 1st		
Barometric Pressure:	30.33" rising	inHg	

Purge Volume Calculation			
Purge Method:	60 mL syringe connected to Swagelok® diverting valve		
Length of Tubing:	10 ft	Inner Diameter	0.17 inches
Volume of Tubing:	45		
Volume Purged:	135 mL	**Moisture Noted:**	No

Sample Collection Data				
SG-2				**QA/QC**
Start Time:	1200	**Initial Pressure:**	-19.5	
Ending Time:	1205	**Final Pressure:**	-3.0	
Sample Container:	1 Liter Summa® Canister	**Canister Identification:**	020327	
Leak Detection:	Shut in - pass	**Flow Control Number:**	007489	
		Moisture Noted:	No	

Notes	Photographic Documentation
Low initial canister pressure	Not Available.

Soil Gas Sampling Form

General Site Information			
Project Name:	Former Whirlpool Facility	**Date:**	**11/13/2023**
Location:	La Porte, Indiana		
Personnel:	MG	**Sample Point Identification:**	SG-3
Project No.#:	1042-1005		

Weather Conditions			
Current Weather:	56 and sunny		
Most Recent Rain Event:	November 1st		
Barometric Pressure:	30.33" rising	inHg	

Purge Volume Calculation			
Purge Method:	60 mL syringe connected to Swagelok® diverting valve		
Length of Tubing:	10 ft	Inner Diameter	0.17 inches
Volume of Tubing:	45		
Volume Purged:	135 mL	**Moisture Noted:**	No

Sample Collection Data				
SG-3				**QA/QC**
Start Time:	1245	**Initial Pressure:**	-30.0	
Ending Time:	1250	**Final Pressure:**	-5.0	
Sample Container:	1 Liter Summa® Canister	**Canister Identification:**	020586	
Leak Detection:	Shut in - pass	**Flow Control Number:**	015239	
		Moisture Noted:	No	

Notes	Photographic Documentation
	

Soil Gas Sampling Form

General Site Information			
Project Name:	Former Whirlpool Facility	**Date:**	**11/13/2023**
Location:	La Porte, Indiana		
Personnel:	MG	**Sample Point Identification:**	SG-4
Project No.#:	1042-1005		

Weather Conditions			
Current Weather:	56 and sunny		
Most Recent Rain Event:	November 1st		
Barometric Pressure:	30.33" rising	inHg	

Purge Volume Calculation			
Purge Method:	60 mL syringe connected to Swagelok® diverting valve		
Length of Tubing:	10 ft	Inner Diameter	0.17 inches
Volume of Tubing:	45		
Volume Purged:	135 mL	**Moisture Noted:**	No

Sample Collection Data				
SG-4				**QA/QC**
Start Time:	1305	**Initial Pressure:**	-30.0	
Ending Time:	1310	**Final Pressure:**	-5.0	
Sample Container:	1 Liter Summa® Canister	**Canister Identification:**	020334	
Leak Detection:	Shut in - pass	**Flow Control Number:**	028919	
		Moisture Noted:	No	

Notes	Photographic Documentation
	

Soil Gas Sampling Form

General Site Information			
Project Name:	Former Whirlpool Facility	**Date:**	**11/23/2023**
Location:	La Porte, Indiana		
Personnel:	MG	**Sample Point Identification:**	SG-5
Project No.#:	1042-1005		

Weather Conditions			
Current Weather:	56 and sunny		
Most Recent Rain Event:	November 1st		
Barometric Pressure:	30.33" rising	inHg	

Purge Volume Calculation			
Purge Method:	60 mL syringe connected to Swagelok® diverting valve		
Length of Tubing:	10 ft	Inner Diameter	0.17 inches
Volume of Tubing:	45		
Volume Purged:	135 mL	**Moisture Noted:**	No

Sample Collection Data				
SG-5				**QA/QC**
Start Time:	1320	**Initial Pressure:**	-27.0	
Ending Time:	1325	**Final Pressure:**	-5.0	
Sample Container:	1 Liter Summa® Canister	**Canister Identification:**	028791	
Leak Detection:	Shut in - pass	**Flow Control Number:**	013619	
		Moisture Noted:	No	

Notes	Photographic Documentation
	

Soil Gas Sampling Form

General Site Information			
Project Name:	Former Whirlpool Facility	**Date:**	**11/23/2023**
Location:	La Porte, Indiana		
Personnel:	MG	**Sample Point Identification:**	SG-6
Project No.#:	1042-1005		

Weather Conditions			
Current Weather:	56 and sunny		
Most Recent Rain Event:	November 1st		
Barometric Pressure:	30.33" rising	inHg	

Purge Volume Calculation			
Purge Method:	60 mL syringe connected to Swagelok® diverting valve		
Length of Tubing:	10 ft	Inner Diameter	0.17 inches
Volume of Tubing:	45		
Volume Purged:	135 mL	**Moisture Noted:**	No

Sample Collection Data				
SG-6				**QA/QC**
Start Time:	1340	**Initial Pressure:**	-30.0	
Ending Time:	1345	**Final Pressure:**	-5.0	
Sample Container:	1 Liter Summa® Canister	**Canister Identification:**	020246	
Leak Detection:	Shut in - pass	**Flow Control Number:**	020341	
		Moisture Noted:	No	

Notes	Photographic Documentation
	

Soil Gas Sampling Form

General Site Information			
Project Name:	Former Whirlpool Facility	**Date:**	**11/13/2023**
Location:	La Porte, Indiana		
Personnel:	MG	**Sample Point Identification:**	SG-7
Project No.#:	1042-1005		

Weather Conditions			
Current Weather:	56 and sunny		
Most Recent Rain Event:	November 1st		
Barometric Pressure:	30.33" rising	inHg	

Purge Volume Calculation			
Purge Method:	60 mL syringe connected to Swagelok® diverting valve		
Length of Tubing:	10 ft	Inner Diameter	0.17 inches
Volume of Tubing:	45		
Volume Purged:	135 mL	**Moisture Noted:**	No

Sample Collection Data				
SG-7				**QA/QC**
Start Time:	1355	**Initial Pressure:**	-30.0	
Ending Time:	1400	**Final Pressure:**	-5.0	
Sample Container:	1 Liter Summa® Canister	**Canister Identification:**	022547	
Leak Detection:	Shut in - pass	**Flow Control Number:**	029249	
		Moisture Noted:	No	

Notes	Photographic Documentation
	

Soil Gas Sampling Form

General Site Information			
Project Name:	Former Whirlpool Facility	**Date:**	**11/13/2023**
Location:	La Porte, Indiana		
Personnel:	MG	**Sample Point Identification:**	SG-8
Project No.#:	1042-1005		

Weather Conditions			
Current Weather:	56 and sunny		
Most Recent Rain Event:	November 1st		
Barometric Pressure:	30.33" rising	inHg	

Purge Volume Calculation			
Purge Method:	60 mL syringe connected to Swagelok® diverting valve		
Length of Tubing:	10 ft	Inner Diameter	0.17 inches
Volume of Tubing:	45		
Volume Purged:	135 mL	**Moisture Noted:**	No

Sample Collection Data				
SG-8				**QA/QC**
Start Time:	1410	**Initial Pressure:**	-27.5	
Ending Time:	1415	**Final Pressure:**	-5.0	
Sample Container:	1 Liter Summa® Canister	**Canister Identification:**	020181	
Leak Detection:	Shut in - pass	**Flow Control Number:**	029100	
		Moisture Noted:	No	

Notes	Photographic Documentation
	

Soil Gas Sampling Form

General Site Information			
Project Name:	Former Whirlpool Facility	**Date:**	**11/13/2023**
Location:	La Porte, Indiana		
Personnel:	MG	**Sample Point Identification:**	SSIA9
Project No.#:	1042-1005		

Weather Conditions			
Current Weather:	56 and sunny		
Most Recent Rain Event:	November 1st		
Barometric Pressure:	30.33" rising	inHg	

Purge Volume Calculation			
Purge Method:	60 mL syringe connected to Swagelok® diverting valve		
Length of Tubing:	3 ft	Inner Diameter	0.17 inches
Volume of Tubing:	14		
Volume Purged:	42 mL	**Moisture Noted:**	No

Sample Collection Data				
SSIA9				**QA/QC**
Start Time:	1450	**Initial Pressure:**	-30.0	
Ending Time:	1455	**Final Pressure:**	-2.0	
Sample Container:	1 Liter Summa® Canister	**Canister Identification:**	020280	
Leak Detection:	Shut in - pass	**Flow Control Number:**	012575	
		Moisture Noted:	No	

Notes	Photographic Documentation
	

Soil Gas Sampling Form

General Site Information			
Project Name:	Former Whirlpool Facility	**Date:**	**11/13/2023**
Location:	La Porte, Indiana		
Personnel:	MG	**Sample Point Identification:**	SSIA8
Project No.#:	1042-1005		

Weather Conditions			
Current Weather:	56 and sunny		
Most Recent Rain Event:	November 1st		
Barometric Pressure:	30.33" rising	inHg	

Purge Volume Calculation			
Purge Method:	60 mL syringe connected to Swagelok® diverting valve		
Length of Tubing:	3 ft	Inner Diameter	0.17 inches
Volume of Tubing:	14		
Volume Purged:	42 mL	**Moisture Noted:**	No

Sample Collection Data				
SSIA8				**QA/QC**
Start Time:	1505	**Initial Pressure:**	-30.0	
Ending Time:	1510	**Final Pressure:**	-5.0	
Sample Container:	1 Liter Summa® Canister	**Canister Identification:**	020328	
Leak Detection:	Shut in - pass	**Flow Control Number:**	028206	
		Moisture Noted:	No	

Notes	Photographic Documentation
	

Soil Gas Sampling Form

General Site Information			
Project Name:	Former Whirlpool Facility	**Date:**	**11/14/2023**
Location:	La Porte, Indiana		
Personnel:	JH	**Sample Point Identification:**	SSIA7
Project No.#:	1042-1005		

Weather Conditions			
Current Weather:	56 and sunny		
Most Recent Rain Event:	November 1st		
Barometric Pressure:	30.33" rising	inHg	

Purge Volume Calculation			
Purge Method:	60 mL syringe connected to Swagelok® diverting valve		
Length of Tubing:	3 ft	Inner Diameter	0.17 inches
Volume of Tubing:	14		
Volume Purged:	42 mL	**Moisture Noted:**	No

Sample Collection Data				
SSIA7				**QA/QC**
Start Time:	1347	**Initial Pressure:**	-29.0	
Ending Time:	1352	**Final Pressure:**	-2.0	
Sample Container:	1 Liter Summa® Canister	**Canister Identification:**	024648	
Leak Detection:	Shut in - pass	**Flow Control Number:**	011345	
		Moisture Noted:	No	

Notes	Photographic Documentation
	

Appendix B

Not Applicable

Appendix C

Indoor Air Sampling Sheets, Building Survey Checklists and VMS Inspection Logs

Vapor Intrusion Investigation Documentation

Part I: General Information

Complete Part I for each sampling event (may involve multiple structures)

Release	*For Known Source(s):*		
	Site Name (if applicable) Former Whirlpool		Site Number
	Address of Investigation:		VRP Project #6180802
	229 Factory Street, LaPorte, IN		
	☐ Source not known		
Chemicals	*Check all that apply:* ■ Chlorinated solvents ☐ Petroleum hydrocarbons ☐ Unknown ☐ Other *(specify)*:		
Rationale	Condition(s) prompting investigation *(check all that apply):* ☐ Odor complaint ■ Ground water contamination levels ☐ Soil contamination levels ☐ Other *(specify)*:		
Weather	Precipitation ≤ 12 hours prior to sampling? ☐ Yes ■ No Outside temperature range: 40 °F to 60 °F		
Personnel	Sampler(s)	Affiliation	Telephone
	Mike Grzegorek	AES	317-863-4685
	Kailey Gray	AES	317-863-4692
	Preparer	Affiliation	Telephone
	Mike Grzegorek	AES	317-863-4685
	Laboratory: Pace Analytical		

Vapor Intrusion Investigation Documentation

Part II: General Structure Characteristics and Sampling Information

Complete a separate Part II for each structure

	■ Residential ☐ Non-residential ☐ Multi-unit	Year Constructed: _____
	Floors at/above grade: 2	Ceiling Height (feet):
	Sensitive population? ■ No ☐ Yes (*specify*):	
	Surrounding area: ■ Bare soil/Vegetation ☐ Impervious ☐ Mixed	
	■ Basement ☐ Crawl space ☐ Slab on grade (check all that are applicable)	
Basement (if applicable)	Depth of basement floor below ground surface (feet): ~6	
	Basement area: 670 ft^2	
	Floor is ☐ Dirt/stones ☐ Slab ■ Other (*specify*): Vapor Barrier	
	Walls are ■ Block ☐ Poured ☐ Other (*specify*):	
	Floor sealed? ■ Yes ☐ No Vapor barrier	Walls sealed? ■ Yes ☐ No
	Sump? ☐ Yes ■ No	Water in sump? ☐ Yes ☐ No
	Floor cracks? ☐ Yes ■ No	Wall cracks? ☐ Yes ■ No
Heating	System type (*check all that apply*): ■ Hot air circulation ☐ Hot air radiation ☐ Steam radiation ☐ Wood ☐ Heat pump ☐ Hot water radiation ☐ Kerosene ☐ Electric baseboard ☐ Other (*specify*): Is system operating? ■ Yes ☐ No System Comments:	
	Fuel type (*check all that apply*): ■ Natural gas ☐ Electric ☐ Oil ☐ Wood ☐ Coal ☐ Kerosene ☐ Other (*specify*):	
Other	Whole house fan? ☐ Yes ■ No	Septic? ☐ Yes ■ No
	Well? ☐ Yes ■ No	
	Sub-slab vapor/moisture barrier? ■ Yes ☐ No ☐ Don't Know If yes, what kind: Vapor barrier installed as part of vapor mitigation system Instructions for Occupants followed? ■ Yes ☐ No If not, describe modifications:	

Part II: Structure Characteristics and Sampling Information *continued*

Sample Location Sketch

ID	Type[1]	Floor	Room	Vol (mL)	Time (hrs)	Method[2]
205P-BAS	IA	Basement	Basement	6L	24	TO-15
205P-IA	IA	1st	Living Room	6L	24	TO-15

[1] IA = indoor air SS = sub-slab SGe = exterior soil gas CS = crawl space NS = near-slab exterior
[2] TO-14A; TO-15; TO-15SIM; TO-17; Other (specify)

Vapor Intrusion Investigation Documentation

Part III: Indoor Air Background Investigation

Complete a separate Part III for any structure with suspected background source

Structure address: 205 Planett Street LaPorte, IN
Potential background contaminant(s):

■ Yes	☐ No	Do structure occupants smoke?
		If yes, last time someone smoked in structure:
☐ Yes	■ No	Garage attached to living space?
		If yes, is a vehicle usually parked in the garage?
		If yes, are gas cans or gas-powered equipment stored in the garage?
☐ Yes	■ No	Do structure occupants have clothes dry cleaned?
		If yes, how often:
		If yes, last time newly dry cleaned clothes brought home:
☐ Yes	■ No	Occupants use solvents at place of employment?
		If yes, what types:
		If yes, are their clothes washed away from home?
☐ Yes	■ No	Are pesticides applied in/around structure?
		If yes, which pesticides:
		If yes, when:
☐ Yes	■ No	Has there ever been a fire in the structure?
		If yes, when:
☐ Yes	■ No	Painting or staining in the building in the last six months?
		If yes, when:
		If yes, which rooms:

Vapor Intrusion Investigation Documentation

Part III: Indoor Air Background Investigation *continued*

Indoor Chemical Inventory

Potential Sources	Location(s)	Removed prior to sampling? Y/N/NA
Gasoline storage cans		
Gas powered equipment		
Kerosene storage cans		
Paint/thinner/stripper		
Cleaning solvents		
Oven cleaner		
Carpet/upholstery cleaner		
Other cleaning products	Various household cleaners	N
Moth balls		
Polish/wax		
Insecticide		
Nail polish/polish remover		
Hairspray		
Cologne/perfume		
Air fresheners		
Indoor fuel tank		
Wood stove or fireplace		
New furniture/upholstery		
New carpeting/flooring		
Hobby chemicals: glues, paints, lacquers, darkroom chemicals, etc.		
Scented trees, wreaths, potpourri, etc.		
Other		

Indoor Air Sampling Form

General Site Information				
Project Name:	Former Whirlpool Facility	**Date:**	11/15-11/16/23	
Location:	205 Planett St. LaPorte, Indiana			
Personnel:	JH / KG	**Sample Point Identification:**	205P-BAS	
Project No.#:	1042-1005			
Weather Conditions				
Current Weather:	50F, sunny			
Barometric Pressure:	30.21, steady	**Most Recent Rain Event:**	11/1/2023	
Sample Collection Data			205P-BAS	
Start Time:	0913	**Initial Pressure** (in Hg)**:**	-27	
Ending Time:	848	**Final Pressure** (in Hg)**:**	0	
Sample Container:	6 Liter Summa® Canister	**Canister Identification:**	24214	FC:015383

Notes	Photographic Documentation
DUP could not be collected. Pace provided unusable cansiter.	

Indoor Air Sampling Form

General Site Information				
Project Name:	Former Whirlpool Facility	**Date:**	11/15-11/16/23	
Location:	205 Planett St. LaPorte, Indiana			
Personnel:	JH / KG	**Sample Point Identification:**	205P-IA	
Project No.#:	1042-1005			
Weather Conditions				
Current Weather:	50F sunny			
Barometric Pressure:	30.21, steady	**Most Recent Rain Event:**	11/1/2023	
Sample Collection Data				
Start Time:	0916	**Initial Pressure** (in Hg)**:**	-27.5	
Ending Time:	855	**Final Pressure** (in Hg)**:**	0	
Sample Container:	6 Liter Summa® Canister	**Canister Identification:**	5613	FC:022557

Notes	Photographic Documentation
	

Vapor Mitigation System Evaluation and Inspection Checklist

Ongoing inspections are required to confirm the SSD System is operating as designed. An inspection of all mitigation system components should be performed every year (annually) followed by an inspection every 6 months. Additionally, any service event requires specific inspection procedures.

This document will help a qualified trained personnel to conduct and document an inspection on all installed mitigation systems on or about the first week of the first month of August. The annual inspection will take place on or about the first week of February.

Project Name:	Former Whirlpool Facility	**Date:**	11/15/2023
Project Number:	1042-1005	**Acuity Personnel:**	JH & KG
Property Location:	205 Planett Street	**Signature:**	
Owner/Tenant:	Lacie	**Weather:**	50F
Inspection Type	Annual	**Pictures:**	Yes

Outdoor Evaluation (Semi-Annual)		
Is the exhaust fan operational?	Yes	Notes:
Is the piping damaged or cracked?	No	Notes:
Is the piping secured to the building?	Yes	Notes:
Is there an intact seal where the piping enters the building?	Yes	Notes:
Is the piping water-tight?	Yes	Notes:
Is the path of the exhaust air obstructed?	No	Notes:
Is the exhaust screen intact?	Yes	Notes: exhaust screen not visble from ground, but lip of screen was observed during inspection.
Has new equipment been installed near the system exhaust?	No	Notes:
Pressure Gauge Reading: 2.75" wc		Original Pressure: 2.75" wc
Does the current operating pressure differ from the original pressure by more than 0.5?	No	Notes:

These gauges can freeze in extremely cold and icy weather. If the gauge is expected to be froze, wait until the outside temperature has been above freezing for 8 consecutive hours.

Indoor Inspection (Annual)		
Does the floor exhibit signs of shrinkage, warping, cracks, or missing pieces?	No	Notes:
Do the basement walls exhibit signs of shifting, settling, or cracking?	No	Notes:
Is the piping damaged or cracked?	No	Notes:
Is the piping secured to the building?	Yes	Notes:
Is there an intact seal where the piping connects to the basement floor?	Yes	Notes:
Is there an intact seal where the piping exits the basement wall?	Yes	Notes:
Are the extraction points intact?	Yes	Notes:
Does the electrical service disconnect work properly?	Yes	Notes:
Are the worm drive clamps on the fan secure?	Yes	Notes:
Monitoring Point Pressures		
Current operating pressure -		Original Pressure-
Monitoring Point 1: not measured		Monitoring Point 1: -0.023 "wc
Monitoring Point 2: not measured		Monitoring Point 2: -0.021 "wc
Monitoring Point 3: not measured		Monitoring Point 3: -0.027 "wc
Does the current operating pressure differ from the original pressure by more than 0.5?	No	Notes: the manometer scale was too large to detect < 1"WC. Will bring appropriately scaled manometer for next inspection.
Extraction Point Pressures		
Current operating pressure -		Original Pressure (found on label) -
Extraction Point 1: manometer not present		Extraction Point 1: manometer not present
Extraction Point 2: manometer not present		Extraction Point 2: manometer not present
Extraction Point 3: manometer not present		Extraction Point 3: manometer not present
Does the current operating pressure differ from the original pressure by more than 0.5?	No	Notes:

Vapor Intrusion Investigation Documentation

Part I: General Information

Complete Part I for each sampling event (may involve multiple structures)

Release	*For Known Source(s):*		
	Site Name (if applicable) Former Whirlpool		Site Number
	Address of Investigation:		VRP Project #6180802
	229 Factory Street, LaPorte, IN		
	☐ Source not known		
Chemicals	*Check all that apply:* ■ Chlorinated solvents ☐ Petroleum hydrocarbons ☐ Unknown ☐ Other *(specify)*:		
Rationale	Condition(s) prompting investigation *(check all that apply):* ☐ Odor complaint ■ Ground water contamination levels ☐ Soil contamination levels ☐ Other *(specify)*:		
Weather	Precipitation ≤ 12 hours prior to sampling? ☐ Yes ■ No Outside temperature range: 40 °F to 60 °F		
Personnel	Sampler(s)	Affiliation	Telephone
	Mike Grzegorek	AES	317-863-4685
	Kailey Gray	AES	317-863-4692
	Preparer	Affiliation	Telephone
	Mike Grzegorek	AES	317-863-4685
	Laboratory: Pace Analytical		

Vapor Intrusion Investigation Documentation

Part II: General Structure Characteristics and Sampling Information

Complete a separate Part II for each structure

	■ Residential ☐ Non-residential ☐ Multi-unit	Year Constructed: _____
	Floors at/above grade: 1	Ceiling Height (feet): 8
	Sensitive population? ■ No ☐ Yes (*specify*):	
	Surrounding area: ■ Bare soil/Vegetation ☐ Impervious ☐ Mixed	
	■ Basement ☐ Crawl space ☐ Slab on grade (check all that are applicable)	
Basement (if applicable)	Depth of basement floor below ground surface (feet): ~8	
	Basement area: 625 ft^2	
	Floor is ☐ Dirt/stones ☑ Slab ☐ Other (*specify*):	
	Walls are ■ Block ☐ Poured ☐ Other (*specify*):	
	Floor sealed? ☐ Yes ■ No	Walls sealed? ☐ Yes ■ No
	Sump? ■ Yes ☐ No	Water in sump? ■ Yes ☐ No
	Floor cracks? ☐ Yes ■ No	Wall cracks? ☐ Yes ■ No
Heating	System type (*check all that apply*): ■ Hot air circulation ☐ Hot air radiation ☐ Steam radiation ☐ Wood ☐ Heat pump ☐ Hot water radiation ☐ Kerosene ☐ Electric baseboard ☐ Other (*specify*): Is system operating? ■ Yes ☐ No System Comments:	
	Fuel type (*check all that apply*): ■ Natural gas ☐ Electric ☐ Oil ☐ Wood ☐ Coal ☐ Kerosene ☐ Other (*specify*):	
Other	Whole house fan? ☐ Yes ■ No	Septic? ☐ Yes ■ No
	Well? ☐ Yes ■ No	
	Sub-slab vapor/moisture barrier? ☐ Yes ☐ No ■ Don't Know If yes, what kind: Instructions for Occupants followed? ■ Yes ☐ No If not, describe modifications:	

Sample Location Sketch

211O-BAS: Sink counter- left of sink
211O-IA: Kitchen - left of microwave

ID	Type[1]	Floor	Room	Vol (mL)	Time (hrs)	Method[2]
211O-BAS	IA	Basement	Basement	6L	24	TO-15
211O-IA	IA	1st	Kitchen	6L	24	TO-15

[1] IA = indoor air SS = sub-slab SGe = exterior soil gas CS = crawl space NS = near-slab exterior
[2] TO-14A; TO-15; TO-15SIM; TO-17; Other (specify)

Vapor Intrusion Investigation Documentation

Part III: Indoor Air Background Investigation

Complete a separate Part III for any structure with suspected background source

Structure address: 211 Oberreich Street LaPorte, IN
Potential background contaminant(s):

◉ Yes	○ No	Do structure occupants smoke?
		If yes, last time someone smoked in structure:
○ Yes	◉ No	Garage attached to living space?
		If yes, is a vehicle usually parked in the garage?
		If yes, are gas cans or gas-powered equipment stored in the garage?
◉ Yes	○ No	Do structure occupants have clothes dry cleaned?
		If yes, how often:
		If yes, last time newly dry cleaned clothes brought home:
○ Yes	◉ No	Occupants use solvents at place of employment?
		If yes, what types:
		If yes, are their clothes washed away from home?
○ Yes	◉ No	Are pesticides applied in/around structure?
		If yes, which pesticides:
		If yes, when:
○ Yes	◉ No	Has there ever been a fire in the structure?
		If yes, when:
○ Yes	◉ No	Painting or staining in the building in the last six months?
		If yes, when:
		If yes, which rooms:

Vapor Intrusion Investigation Documentation

Part III: Indoor Air Background Investigation *continued*

Indoor Chemical Inventory

Potential Sources	Location(s)	Removed prior to sampling? Y/N/NA
Gasoline storage cans	Motor oil	N
Gas powered equipment		
Kerosene storage cans		
Paint/thinner/stripper	Sealed Paint cans	N
Cleaning solvents		
Oven cleaner		
Carpet/upholstery cleaner		
Other cleaning products	Various household cleaners	N
Moth balls		
Polish/wax		
Insecticide		
Nail polish/polish remover		
Hairspray		
Cologne/perfume		
Air fresheners		
Indoor fuel tank		
Wood stove or fireplace		
New furniture/upholstery		
New carpeting/flooring		
Hobby chemicals: glues, paints, lacquers, darkroom chemicals, etc.	Construction adhesive	N
Scented trees, wreaths, potpourri, etc.		
Other		

Indoor Air Sampling Form

General Site Information				
Project Name:	Former Whirlpool Facility	**Date:**	11/13-11/14/2023	
Location:	211 Oberreich St. LaPorte, Indiana			
Personnel:	MG / KG	**Sample Point Identification:**	211O-BAS	
Project No.#:	1042-1005			
Weather Conditions				
Current Weather:	55, sunny			
Barometric Pressure:	30.33", steady	**Most Recent Rain Event:**	11/1/2023	
Sample Collection Data				
Start Time:	1605	**Initial Pressure** (in Hg)**:**	-29	
Ending Time:	1530	**Final Pressure** (in Hg)**:**	-10.5	
Sample Container:	6 Liter Summa® Canister	**Canister Identification:**	13836	FC:013181

Notes	Photographic Documentation
	

Indoor Air Sampling Form

General Site Information				
Project Name:	Former Whirlpool Facility	**Date:**	11/13-11/14/2023	
Location:	211 Oberreich St. LaPorte, Indiana			
Personnel:	MG / KG	**Sample Point Identification:**	211O-IA	
Project No.#:	1042-1005			
Weather Conditions				
Current Weather:	55, sunny			
Barometric Pressure:	30.33", steady	**Most Recent Rain Event:**	11/1/2023	
Sample Collection Data				
Start Time:	1607	**Initial Pressure** (in Hg)**:**	-29.5	
Ending Time:	1532	**Final Pressure** (in Hg)**:**	-16	
Sample Container:	6 Liter Summa® Canister	**Canister Identification:**	23411	FC:022738

Notes	Photographic Documentation
	

Vapor Mitigation System Evaluation and Inspection Checklist

Ongoing inspections are required to confirm the SSD System is operating as designed. An inspection of all mitigation system components should be performed every year (annually) followed by an inspection every 6 months. Additionally, any service event requires specific inspection procedures.

This document will help a qualified trained personnel to conduct and document an inspection on all installed mitigation systems on or about the first week of the first month of August. The annual inspection will take place on or about the first week of February.

Project Name:	Former Whirlpool Facility	**Date:**	11/13/2023
Project Number:	1042-1005	**Acuity Personnel:**	MG/JH/KG
Property Location:	211 Oberreich Street	**Signature:**	
Owner/Tenant:	Denise Trujillo	**Weather:**	50, sunny
Inspection Type	Annual	**Pictures:**	

Outdoor Evaluation (Semi-Annual)		
Is the exhaust fan operational?	Yes	Notes:
Is the piping damaged or cracked?	No	Notes:
Is the piping secured to the building?	Yes	Notes:
Is there an intact seal where the piping enters the building?	Yes	Notes:
Is the piping water-tight?	Yes	Notes:
Is the path of the exhaust air obstructed?	No	Notes:
Is the exhaust screen intact?	Yes	Notes:
Has new equipment been installed near the system exhaust?	No	Notes:
Pressure Gauge Reading:-3.75" wc		Original Pressure: 3.5" wc
Does the current operating pressure differ from the original pressure by more than 0.5?	No	Notes:

These gauges can freeze in extremely cold and icy weather. If the gauge is expected to be frozen, wait until the outside temperature has been above freezing for 8 consecutive hours.

Indoor Inspection (Annual)		
Does the floor exhibit signs of shrinkage, warping, cracks, or missing pieces?	No	Notes:
Do the basement walls exhibit signs of shifting, settling, or cracking?	No	Notes:
Is the piping damaged or cracked?	No	Notes:
Is the piping secured to the building?	Yes	Notes:
Is there an intact seal where the piping connects to the basement floor?	Yes	Notes:
Is there an intact seal where the piping exits the basement wall?	Yes	Notes:
Are the extraction points intact?	Yes	Notes:
Does the electrical service disconnect work properly?	Yes	Notes:
Are the worm drive clamps on the fan secure?	Yes	Notes:
Monitoring Point Pressures		
Current operating pressure -		Original Pressure (found on label) -
Manometer 1: 2.25" w.c.		Manometer 1: 1.9" w.c.
Manometer 2: 2.75" w.c.		Manometer 2: 2.7" w.c.
Does the current operating pressure differ from the original pressure by more than 0.5?	No	Notes:
Extraction Point Pressures		
Current operating pressure -		Original Pressure (found on label) -
Extraction Point 1: 2.25" w.c.		Extraction Point 1: 1.9" w.c.
Extraction Point 2: 2.75" w.c.		Extraction Point 2: 2.7" w.c.
Does the current operating pressure differ from the original pressure by more than 0.5?	No	Notes:

Appendix D

Laboratory Analytical Reports

Groundwater Analytical Lab Report

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

November 30, 2023

Jacqueline Humphress
Acuity Environmental Solutions, LLC
7965 East 106th Street, Suite
Fishers, IN 46038

RE: Project: Factory Street
Pace Project No.: 50360041

Dear Jacqueline Humphress:

Enclosed are the analytical results for sample(s) received by the laboratory on November 17, 2023. 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 - Indianapolis

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

Sincerely,

Allison Martinez
allison.martinez@pacelabs.com
(317)228-3118
Project Manager

Enclosures

cc: Kailey Gray, ACUITY Environmental Solutions
Mike Grzegorek, ACUITY Environmental Solutions

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: Factory Street
Pace Project No.: 50360041

Pace Analytical Services Indianapolis
7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: Factory Street
Pace Project No.: 50360041

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50360041001	**MW-10S**	Water	11/15/23 13:20	11/17/23 13:30
50360041002	**MW-11S**	Water	11/16/23 10:28	11/17/23 13:30
50360041003	**MW-12D**	Water	11/15/23 09:35	11/17/23 13:30
50360041004	**MW-12S**	Water	11/16/23 12:15	11/17/23 13:30
50360041005	**MW-13S**	Water	11/16/23 10:10	11/17/23 13:30
50360041006	**MW-14S**	Water	11/15/23 12:25	11/17/23 13:30
50360041007	**MW-15S**	Water	11/15/23 16:25	11/17/23 13:30
50360041008	**MW-16S**	Water	11/16/23 10:35	11/17/23 13:30
50360041009	**MW-19S**	Water	11/15/23 14:15	11/17/23 13:30
50360041010	**MW-1D**	Water	11/14/23 10:05	11/17/23 13:30
50360041011	**MW-1**	Water	11/15/23 17:00	11/17/23 13:30
50360041012	**MW-20S**	Water	11/15/23 15:05	11/17/23 13:30
50360041013	**MW-2D**	Water	11/14/23 14:00	11/17/23 13:30
50360041014	**MW-2SR**	Water	11/15/23 14:00	11/17/23 13:30
50360041015	**MW-3S**	Water	11/15/23 15:50	11/17/23 13:30
50360041016	**MW-3D**	Water	11/14/23 10:30	11/17/23 13:30
50360041017	**MW-4**	Water	11/14/23 11:45	11/17/23 13:30
50360041018	**MW-5D**	Water	11/14/23 15:10	11/17/23 13:30
50360041019	**MW-5S**	Water	11/16/23 11:40	11/17/23 13:30
50360041020	**MW-6D**	Water	11/14/23 15:15	11/17/23 13:30
50360041021	**MW-6S**	Water	11/14/23 12:10	11/17/23 13:30
50360041022	**MW-7D**	Water	11/14/23 16:30	11/17/23 13:30
50360041023	**MW-7I**	Water	11/16/23 14:55	11/17/23 13:30
50360041024	**MW-7S**	Water	11/16/23 13:50	11/17/23 13:30
50360041025	**MW-8D**	Water	11/14/23 16:40	11/17/23 13:30
50360041026	**MW-8S**	Water	11/16/23 12:20	11/17/23 13:30
50360041027	**MW-9D**	Water	11/15/23 11:30	11/17/23 13:30
50360041028	**MW-9S**	Water	11/15/23 16:30	11/17/23 13:30
50360041029	**OW-1D**	Water	11/16/23 09:05	11/17/23 13:30
50360041030	**OW-1S**	Water	11/16/23 15:05	11/17/23 13:30
50360041031	**OW-2D**	Water	11/15/23 13:45	11/17/23 13:30
50360041032	**OW-2S**	Water	11/16/23 17:50	11/17/23 13:30
50360041033	**DUP-1**	Water	11/16/23 08:00	11/17/23 13:30
50360041034	**DUP-2**	Water	11/16/23 08:00	11/17/23 13:30
50360041035	**EB-1**	Water	11/16/23 12:35	11/17/23 13:30
50360041036	**EB-2**	Water	11/16/23 12:45	11/17/23 13:30
50360041037	**EB-3**	Water	11/16/23 16:40	11/17/23 13:30

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: Factory Street
Pace Project No.: 50360041

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50360041038	**TB-1**	Water	11/14/23 08:00	11/17/23 13:30

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: Factory Street
Pace Project No.: 50360041

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50360041001	MW-10S	EPA 8260	KLP	15	PASI-I
50360041002	MW-11S	EPA 8260	KLP	15	PASI-I
50360041003	MW-12D	EPA 8260	KLP	15	PASI-I
50360041004	MW-12S	EPA 8260	KLP	15	PASI-I
50360041005	MW-13S	EPA 8260	KLP	15	PASI-I
50360041006	MW-14S	EPA 8260	KLP	15	PASI-I
50360041007	MW-15S	EPA 8260	KLP	15	PASI-I
50360041008	MW-16S	EPA 8260	KLP	15	PASI-I
50360041009	MW-19S	EPA 8260	KLP	15	PASI-I
50360041010	MW-1D	EPA 8260	KLP	15	PASI-I
50360041011	MW-1	EPA 8260	KLP	15	PASI-I
50360041012	MW-20S	EPA 8260	KLP	15	PASI-I
50360041013	MW-2D	EPA 8260	KLP	15	PASI-I
50360041014	MW-2SR	EPA 8260	KLP	15	PASI-I
50360041015	MW-3S	EPA 8260	KLP	15	PASI-I
50360041016	MW-3D	EPA 8260	KLP	15	PASI-I
50360041017	MW-4	EPA 8260	KLP	15	PASI-I
50360041018	MW-5D	EPA 8260	KLP	15	PASI-I
50360041019	MW-5S	EPA 8260	KLP	15	PASI-I
50360041020	MW-6D	EPA 8260	KLP	15	PASI-I
50360041021	MW-6S	EPA 8260	KLP	15	PASI-I
50360041022	MW-7D	EPA 8260	KLP	15	PASI-I
50360041023	MW-7I	EPA 8260	KLP	15	PASI-I
50360041024	MW-7S	EPA 8260	KLP	15	PASI-I
50360041025	MW-8D	EPA 8260	KLP	15	PASI-I
50360041026	MW-8S	EPA 8260	KLP	15	PASI-I
50360041027	MW-9D	EPA 8260	KLP	15	PASI-I
50360041028	MW-9S	EPA 8260	KLP	15	PASI-I
50360041029	OW-1D	EPA 8260	KLP	15	PASI-I
50360041030	OW-1S	EPA 8260	KLP	15	PASI-I
50360041031	OW-2D	EPA 8260	KLP	15	PASI-I
50360041032	OW-2S	EPA 8260	KLP	15	PASI-I
50360041033	DUP-1	EPA 8260	KLP	15	PASI-I
50360041034	DUP-2	EPA 8260	KLP	15	PASI-I
50360041035	EB-1	EPA 8260	KLP	15	PASI-I
50360041036	EB-2	EPA 8260	KLP	15	PASI-I
50360041037	EB-3	EPA 8260	KLP	15	PASI-I

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: Factory Street
Pace Project No.: 50360041

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50360041038	**TB-1**	EPA 8260	KLP	15	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: Factory Street
Pace Project No.: 50360041

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50360041001	**MW-10S**					
EPA 8260	Carbon tetrachloride	18.7	ug/L	5.0	11/22/23 10:44	
50360041002	**MW-11S**					
EPA 8260	Trichloroethene	24.5	ug/L	5.0	11/22/23 09:39	
50360041003	**MW-12D**					
EPA 8260	Trichloroethene	6.8	ug/L	5.0	11/22/23 07:28	
50360041004	**MW-12S**					
EPA 8260	Trichloroethene	163	ug/L	5.0	11/22/23 08:00	
50360041006	**MW-14S**					
EPA 8260	1,1-Dichloroethene	13.2	ug/L	5.0	11/22/23 09:06	
EPA 8260	1,1,1-Trichloroethane	233	ug/L	5.0	11/22/23 09:06	
50360041007	**MW-15S**					
EPA 8260	Tetrachloroethene	226	ug/L	5.0	11/22/23 15:19	
50360041008	**MW-16S**					
EPA 8260	Carbon tetrachloride	10.5	ug/L	5.0	11/22/23 15:52	
EPA 8260	Tetrachloroethene	257	ug/L	50.0	11/28/23 13:42	
EPA 8260	Trichloroethene	19.1	ug/L	5.0	11/22/23 15:52	
50360041009	**MW-19S**					
EPA 8260	Carbon tetrachloride	32.7	ug/L	5.0	11/22/23 16:25	
EPA 8260	Chloroform	7.8	ug/L	5.0	11/22/23 16:25	
EPA 8260	1,1,1-Trichloroethane	291	ug/L	5.0	11/22/23 16:25	
50360041011	**MW-1**					
EPA 8260	Trichloroethene	133	ug/L	5.0	11/22/23 17:30	
50360041012	**MW-20S**					
EPA 8260	Carbon tetrachloride	31.5	ug/L	25.0	11/22/23 18:03	
EPA 8260	1,1-Dichloroethane	33.1	ug/L	25.0	11/22/23 18:03	
EPA 8260	1,1,1-Trichloroethane	1020	ug/L	25.0	11/22/23 18:03	
EPA 8260	Trichloroethene	38.3	ug/L	25.0	11/22/23 18:03	
50360041014	**MW-2SR**					
EPA 8260	Tetrachloroethene	5.7	ug/L	5.0	11/22/23 19:41	
EPA 8260	Trichloroethene	115	ug/L	5.0	11/22/23 19:41	
50360041015	**MW-3S**					
EPA 8260	Trichloroethene	228	ug/L	5.0	11/22/23 20:14	
50360041019	**MW-5S**					
EPA 8260	Trichloroethene	723	ug/L	50.0	11/23/23 03:52	
50360041021	**MW-6S**					
EPA 8260	Chloroform	11.9	ug/L	5.0	11/23/23 04:57	
50360041022	**MW-7D**					
EPA 8260	Trichloroethene	6.1	ug/L	5.0	11/23/23 05:30	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: Factory Street
Pace Project No.: 50360041

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50360041023	**MW-7I**					
EPA 8260	Trichloroethene	14700	ug/L	500	11/23/23 06:35	
50360041024	**MW-7S**					
EPA 8260	Trichloroethene	4590	ug/L	500	11/23/23 07:41	
50360041026	**MW-8S**					
EPA 8260	Trichloroethene	1120	ug/L	25.0	11/23/23 08:46	
50360041028	**MW-9S**					
EPA 8260	Tetrachloroethene	97.2	ug/L	5.0	11/23/23 10:24	
50360041030	**OW-1S**					
EPA 8260	Trichloroethene	390	ug/L	50.0	11/23/23 12:03	
50360041031	**OW-2D**					
EPA 8260	Trichloroethene	64.6	ug/L	5.0	11/27/23 13:12	
50360041032	**OW-2S**					
EPA 8260	Trichloroethene	2650	ug/L	250	11/27/23 14:18	
50360041033	**DUP-1**					
EPA 8260	Trichloroethene	14500	ug/L	500	11/27/23 15:23	
50360041034	**DUP-2**					
EPA 8260	Trichloroethene	2460	ug/L	250	11/27/23 16:28	

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Factory Street
Pace Project No.: 50360041

Sample: MW-10S **Lab ID: 50360041001** Collected: 11/15/23 13:20 Received: 11/17/23 13:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Carbon tetrachloride	**18.7**	ug/L	5.0	1		11/22/23 10:44	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/22/23 10:44	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/22/23 10:44	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/22/23 10:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/23 10:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/23 10:44	156-60-5	
Naphthalene	ND	ug/L	5.0	1		11/22/23 10:44	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/22/23 10:44	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/22/23 10:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/22/23 10:44	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/22/23 10:44	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/22/23 10:44	75-01-4	
Surrogates								
Dibromofluoromethane (S)	102	%.	82-128	1		11/22/23 10:44	1868-53-7	
4-Bromofluorobenzene (S)	92	%.	79-124	1		11/22/23 10:44	460-00-4	
Toluene-d8 (S)	94	%.	73-122	1		11/22/23 10:44	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Factory Street
Pace Project No.: 50360041

Sample: MW-11S **Lab ID: 50360041002** Collected: 11/16/23 10:28 Received: 11/17/23 13:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Carbon tetrachloride	ND	ug/L	5.0	1		11/22/23 09:39	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/22/23 09:39	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/22/23 09:39	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/22/23 09:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/23 09:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/23 09:39	156-60-5	
Naphthalene	ND	ug/L	5.0	1		11/22/23 09:39	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/22/23 09:39	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/22/23 09:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/22/23 09:39	79-00-5	
Trichloroethene	**24.5**	ug/L	5.0	1		11/22/23 09:39	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/22/23 09:39	75-01-4	
Surrogates								
Dibromofluoromethane (S)	102	%.	82-128	1		11/22/23 09:39	1868-53-7	
4-Bromofluorobenzene (S)	93	%.	79-124	1		11/22/23 09:39	460-00-4	
Toluene-d8 (S)	94	%.	73-122	1		11/22/23 09:39	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Indianapolis, IN 46268
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ANALYTICAL RESULTS

Project: Factory Street
Pace Project No.: 50360041

Sample: MW-12D **Lab ID: 50360041003** Collected: 11/15/23 09:35 Received: 11/17/23 13:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Carbon tetrachloride	ND	ug/L	5.0	1		11/22/23 07:28	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/22/23 07:28	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/22/23 07:28	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/22/23 07:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/23 07:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/23 07:28	156-60-5	
Naphthalene	ND	ug/L	5.0	1		11/22/23 07:28	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/22/23 07:28	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/22/23 07:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/22/23 07:28	79-00-5	
Trichloroethene	**6.8**	ug/L	5.0	1		11/22/23 07:28	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/22/23 07:28	75-01-4	
Surrogates								
Dibromofluoromethane (S)	103	%.	82-128	1		11/22/23 07:28	1868-53-7	
4-Bromofluorobenzene (S)	93	%.	79-124	1		11/22/23 07:28	460-00-4	
Toluene-d8 (S)	94	%.	73-122	1		11/22/23 07:28	2037-26-5	

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ANALYTICAL RESULTS

Project: Factory Street
Pace Project No.: 50360041

Sample: MW-12S **Lab ID: 50360041004** Collected: 11/16/23 12:15 Received: 11/17/23 13:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Carbon tetrachloride	ND	ug/L	5.0	1		11/22/23 08:00	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/22/23 08:00	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/22/23 08:00	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/22/23 08:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/23 08:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/23 08:00	156-60-5	
Naphthalene	ND	ug/L	5.0	1		11/22/23 08:00	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/22/23 08:00	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/22/23 08:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/22/23 08:00	79-00-5	
Trichloroethene	**163**	ug/L	5.0	1		11/22/23 08:00	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/22/23 08:00	75-01-4	
Surrogates								
Dibromofluoromethane (S)	102	%.	82-128	1		11/22/23 08:00	1868-53-7	
4-Bromofluorobenzene (S)	92	%.	79-124	1		11/22/23 08:00	460-00-4	
Toluene-d8 (S)	92	%.	73-122	1		11/22/23 08:00	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Factory Street
Pace Project No.: 50360041

Sample: MW-13S **Lab ID: 50360041005** Collected: 11/16/23 10:10 Received: 11/17/23 13:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Carbon tetrachloride	ND	ug/L	5.0	1		11/22/23 08:33	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/22/23 08:33	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/22/23 08:33	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/22/23 08:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/23 08:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/23 08:33	156-60-5	
Naphthalene	ND	ug/L	5.0	1		11/22/23 08:33	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/22/23 08:33	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/22/23 08:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/22/23 08:33	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/22/23 08:33	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/22/23 08:33	75-01-4	
Surrogates								
Dibromofluoromethane (S)	101	%.	82-128	1		11/22/23 08:33	1868-53-7	
4-Bromofluorobenzene (S)	92	%.	79-124	1		11/22/23 08:33	460-00-4	
Toluene-d8 (S)	94	%.	73-122	1		11/22/23 08:33	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Factory Street
Pace Project No.: 50360041

Sample: MW-14S **Lab ID: 50360041006** Collected: 11/15/23 12:25 Received: 11/17/23 13:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Carbon tetrachloride	ND	ug/L	5.0	1		11/22/23 09:06	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/22/23 09:06	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/22/23 09:06	75-34-3	
1,1-Dichloroethene	**13.2**	ug/L	5.0	1		11/22/23 09:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/23 09:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/23 09:06	156-60-5	
Naphthalene	ND	ug/L	5.0	1		11/22/23 09:06	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/22/23 09:06	127-18-4	
1,1,1-Trichloroethane	**233**	ug/L	5.0	1		11/22/23 09:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/22/23 09:06	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/22/23 09:06	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/22/23 09:06	75-01-4	
Surrogates								
Dibromofluoromethane (S)	102	%.	82-128	1		11/22/23 09:06	1868-53-7	
4-Bromofluorobenzene (S)	92	%.	79-124	1		11/22/23 09:06	460-00-4	
Toluene-d8 (S)	94	%.	73-122	1		11/22/23 09:06	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Factory Street
Pace Project No.: 50360041

Sample: MW-15S **Lab ID: 50360041007** Collected: 11/15/23 16:25 Received: 11/17/23 13:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Carbon tetrachloride	ND	ug/L	5.0	1		11/22/23 15:19	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/22/23 15:19	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/22/23 15:19	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/22/23 15:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/23 15:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/23 15:19	156-60-5	
Naphthalene	ND	ug/L	5.0	1		11/22/23 15:19	91-20-3	
Tetrachloroethene	**226**	ug/L	5.0	1		11/22/23 15:19	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/22/23 15:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/22/23 15:19	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/22/23 15:19	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/22/23 15:19	75-01-4	
Surrogates								
Dibromofluoromethane (S)	101	%.	82-128	1		11/22/23 15:19	1868-53-7	
4-Bromofluorobenzene (S)	93	%.	79-124	1		11/22/23 15:19	460-00-4	
Toluene-d8 (S)	94	%.	73-122	1		11/22/23 15:19	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Factory Street
Pace Project No.: 50360041

Sample: MW-16S **Lab ID: 50360041008** Collected: 11/16/23 10:35 Received: 11/17/23 13:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Carbon tetrachloride	**10.5**	ug/L	5.0	1		11/22/23 15:52	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/22/23 15:52	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/22/23 15:52	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/22/23 15:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/23 15:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/23 15:52	156-60-5	
Naphthalene	ND	ug/L	5.0	1		11/22/23 15:52	91-20-3	
Tetrachloroethene	**257**	ug/L	50.0	10		11/28/23 13:42	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/22/23 15:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/22/23 15:52	79-00-5	
Trichloroethene	**19.1**	ug/L	5.0	1		11/22/23 15:52	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/22/23 15:52	75-01-4	
Surrogates								
Dibromofluoromethane (S)	100	%.	82-128	1		11/22/23 15:52	1868-53-7	
4-Bromofluorobenzene (S)	93	%.	79-124	1		11/22/23 15:52	460-00-4	
Toluene-d8 (S)	93	%.	73-122	1		11/22/23 15:52	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Factory Street
Pace Project No.: 50360041

Sample: MW-19S **Lab ID: 50360041009** Collected: 11/15/23 14:15 Received: 11/17/23 13:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Carbon tetrachloride	**32.7**	ug/L	5.0	1		11/22/23 16:25	56-23-5	
Chloroform	**7.8**	ug/L	5.0	1		11/22/23 16:25	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/22/23 16:25	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/22/23 16:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/23 16:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/23 16:25	156-60-5	
Naphthalene	ND	ug/L	5.0	1		11/22/23 16:25	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/22/23 16:25	127-18-4	
1,1,1-Trichloroethane	**291**	ug/L	5.0	1		11/22/23 16:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/22/23 16:25	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/22/23 16:25	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/22/23 16:25	75-01-4	
Surrogates								
Dibromofluoromethane (S)	101	%.	82-128	1		11/22/23 16:25	1868-53-7	
4-Bromofluorobenzene (S)	91	%.	79-124	1		11/22/23 16:25	460-00-4	
Toluene-d8 (S)	94	%.	73-122	1		11/22/23 16:25	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Factory Street
Pace Project No.: 50360041

Sample: MW-1D **Lab ID: 50360041010** Collected: 11/14/23 10:05 Received: 11/17/23 13:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Carbon tetrachloride	ND	ug/L	5.0	1		11/22/23 16:58	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/22/23 16:58	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/22/23 16:58	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/22/23 16:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/23 16:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/23 16:58	156-60-5	
Naphthalene	ND	ug/L	5.0	1		11/22/23 16:58	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/22/23 16:58	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/22/23 16:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/22/23 16:58	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/22/23 16:58	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/22/23 16:58	75-01-4	
Surrogates								
Dibromofluoromethane (S)	102	%.	82-128	1		11/22/23 16:58	1868-53-7	
4-Bromofluorobenzene (S)	92	%.	79-124	1		11/22/23 16:58	460-00-4	
Toluene-d8 (S)	94	%.	73-122	1		11/22/23 16:58	2037-26-5	

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ANALYTICAL RESULTS

Project: Factory Street
Pace Project No.: 50360041

Sample: MW-1 **Lab ID: 50360041011** Collected: 11/15/23 17:00 Received: 11/17/23 13:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Carbon tetrachloride	ND	ug/L	5.0	1		11/22/23 17:30	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/22/23 17:30	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/22/23 17:30	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/22/23 17:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/23 17:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/23 17:30	156-60-5	
Naphthalene	ND	ug/L	5.0	1		11/22/23 17:30	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/22/23 17:30	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/22/23 17:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/22/23 17:30	79-00-5	
Trichloroethene	**133**	ug/L	5.0	1		11/22/23 17:30	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/22/23 17:30	75-01-4	
Surrogates								
Dibromofluoromethane (S)	101	%.	82-128	1		11/22/23 17:30	1868-53-7	
4-Bromofluorobenzene (S)	92	%.	79-124	1		11/22/23 17:30	460-00-4	
Toluene-d8 (S)	94	%.	73-122	1		11/22/23 17:30	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Factory Street
Pace Project No.: 50360041

Sample: MW-20S **Lab ID: 50360041012** Collected: 11/15/23 15:05 Received: 11/17/23 13:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Carbon tetrachloride	**31.5**	ug/L	25.0	5		11/22/23 18:03	56-23-5	
Chloroform	ND	ug/L	25.0	5		11/22/23 18:03	67-66-3	
1,1-Dichloroethane	**33.1**	ug/L	25.0	5		11/22/23 18:03	75-34-3	
1,1-Dichloroethene	ND	ug/L	25.0	5		11/22/23 18:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	25.0	5		11/22/23 18:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	25.0	5		11/22/23 18:03	156-60-5	
Naphthalene	ND	ug/L	25.0	5		11/22/23 18:03	91-20-3	
Tetrachloroethene	ND	ug/L	25.0	5		11/22/23 18:03	127-18-4	
1,1,1-Trichloroethane	**1020**	ug/L	25.0	5		11/22/23 18:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	25.0	5		11/22/23 18:03	79-00-5	
Trichloroethene	**38.3**	ug/L	25.0	5		11/22/23 18:03	79-01-6	
Vinyl chloride	ND	ug/L	10.0	5		11/22/23 18:03	75-01-4	
Surrogates								
Dibromofluoromethane (S)	103	%.	82-128	5		11/22/23 18:03	1868-53-7	
4-Bromofluorobenzene (S)	92	%.	79-124	5		11/22/23 18:03	460-00-4	
Toluene-d8 (S)	95	%.	73-122	5		11/22/23 18:03	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Factory Street
Pace Project No.: 50360041

Sample: MW-2D **Lab ID: 50360041013** Collected: 11/14/23 14:00 Received: 11/17/23 13:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Carbon tetrachloride	ND	ug/L	5.0	1		11/22/23 19:09	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/22/23 19:09	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/22/23 19:09	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/22/23 19:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/23 19:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/23 19:09	156-60-5	
Naphthalene	ND	ug/L	5.0	1		11/22/23 19:09	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/22/23 19:09	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/22/23 19:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/22/23 19:09	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/22/23 19:09	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/22/23 19:09	75-01-4	
Surrogates								
Dibromofluoromethane (S)	102	%.	82-128	1		11/22/23 19:09	1868-53-7	
4-Bromofluorobenzene (S)	91	%.	79-124	1		11/22/23 19:09	460-00-4	
Toluene-d8 (S)	94	%.	73-122	1		11/22/23 19:09	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Factory Street
Pace Project No.: 50360041

Sample: MW-2SR **Lab ID: 50360041014** Collected: 11/15/23 14:00 Received: 11/17/23 13:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Carbon tetrachloride	ND	ug/L	5.0	1		11/22/23 19:41	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/22/23 19:41	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/22/23 19:41	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/22/23 19:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/23 19:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/23 19:41	156-60-5	
Naphthalene	ND	ug/L	5.0	1		11/22/23 19:41	91-20-3	
Tetrachloroethene	**5.7**	ug/L	5.0	1		11/22/23 19:41	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/22/23 19:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/22/23 19:41	79-00-5	
Trichloroethene	**115**	ug/L	5.0	1		11/22/23 19:41	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/22/23 19:41	75-01-4	
Surrogates								
Dibromofluoromethane (S)	101	%.	82-128	1		11/22/23 19:41	1868-53-7	
4-Bromofluorobenzene (S)	91	%.	79-124	1		11/22/23 19:41	460-00-4	
Toluene-d8 (S)	94	%.	73-122	1		11/22/23 19:41	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Factory Street
Pace Project No.: 50360041

Sample: MW-3S **Lab ID: 50360041015** Collected: 11/15/23 15:50 Received: 11/17/23 13:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Carbon tetrachloride	ND	ug/L	5.0	1		11/22/23 20:14	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/22/23 20:14	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/22/23 20:14	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/22/23 20:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/23 20:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/23 20:14	156-60-5	
Naphthalene	ND	ug/L	5.0	1		11/22/23 20:14	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/22/23 20:14	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/22/23 20:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/22/23 20:14	79-00-5	
Trichloroethene	**228**	ug/L	5.0	1		11/22/23 20:14	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/22/23 20:14	75-01-4	
Surrogates								
Dibromofluoromethane (S)	101	%.	82-128	1		11/22/23 20:14	1868-53-7	
4-Bromofluorobenzene (S)	91	%.	79-124	1		11/22/23 20:14	460-00-4	
Toluene-d8 (S)	94	%.	73-122	1		11/22/23 20:14	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Factory Street
Pace Project No.: 50360041

Sample: MW-3D **Lab ID: 50360041016** Collected: 11/14/23 10:30 Received: 11/17/23 13:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Carbon tetrachloride	ND	ug/L	5.0	1		11/22/23 20:47	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/22/23 20:47	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/22/23 20:47	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/22/23 20:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/23 20:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/23 20:47	156-60-5	
Naphthalene	ND	ug/L	5.0	1		11/22/23 20:47	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/22/23 20:47	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/22/23 20:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/22/23 20:47	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/22/23 20:47	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/22/23 20:47	75-01-4	
Surrogates								
Dibromofluoromethane (S)	103	%.	82-128	1		11/22/23 20:47	1868-53-7	
4-Bromofluorobenzene (S)	92	%.	79-124	1		11/22/23 20:47	460-00-4	
Toluene-d8 (S)	94	%.	73-122	1		11/22/23 20:47	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Factory Street
Pace Project No.: 50360041

Sample: MW-4 **Lab ID: 50360041017** Collected: 11/14/23 11:45 Received: 11/17/23 13:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Carbon tetrachloride	ND	ug/L	5.0	1		11/22/23 21:19	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/22/23 21:19	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/22/23 21:19	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/22/23 21:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/23 21:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/23 21:19	156-60-5	
Naphthalene	ND	ug/L	5.0	1		11/22/23 21:19	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/22/23 21:19	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/22/23 21:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/22/23 21:19	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/22/23 21:19	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/22/23 21:19	75-01-4	
Surrogates								
Dibromofluoromethane (S)	101	%.	82-128	1		11/22/23 21:19	1868-53-7	
4-Bromofluorobenzene (S)	91	%.	79-124	1		11/22/23 21:19	460-00-4	
Toluene-d8 (S)	94	%.	73-122	1		11/22/23 21:19	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Factory Street
Pace Project No.: 50360041

Sample: MW-5D **Lab ID: 50360041018** Collected: 11/14/23 15:10 Received: 11/17/23 13:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Carbon tetrachloride	ND	ug/L	5.0	1		11/22/23 21:52	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/22/23 21:52	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/22/23 21:52	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/22/23 21:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/23 21:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/23 21:52	156-60-5	
Naphthalene	ND	ug/L	5.0	1		11/22/23 21:52	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/22/23 21:52	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/22/23 21:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/22/23 21:52	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/22/23 21:52	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/22/23 21:52	75-01-4	
Surrogates								
Dibromofluoromethane (S)	101	%.	82-128	1		11/22/23 21:52	1868-53-7	
4-Bromofluorobenzene (S)	91	%.	79-124	1		11/22/23 21:52	460-00-4	
Toluene-d8 (S)	93	%.	73-122	1		11/22/23 21:52	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Factory Street
Pace Project No.: 50360041

Sample: MW-5S **Lab ID: 50360041019** Collected: 11/16/23 11:40 Received: 11/17/23 13:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Carbon tetrachloride	ND	ug/L	5.0	1		11/23/23 03:19	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/23/23 03:19	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/23/23 03:19	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/23/23 03:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/23/23 03:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/23/23 03:19	156-60-5	
Naphthalene	ND	ug/L	5.0	1		11/23/23 03:19	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/23/23 03:19	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/23/23 03:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/23/23 03:19	79-00-5	
Trichloroethene	**723**	ug/L	50.0	10		11/23/23 03:52	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/23/23 03:19	75-01-4	
Surrogates								
Dibromofluoromethane (S)	101	%.	82-128	1		11/23/23 03:19	1868-53-7	
4-Bromofluorobenzene (S)	93	%.	79-124	1		11/23/23 03:19	460-00-4	
Toluene-d8 (S)	95	%.	73-122	1		11/23/23 03:19	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Factory Street
Pace Project No.: 50360041

Sample: MW-6D **Lab ID: 50360041020** Collected: 11/14/23 15:15 Received: 11/17/23 13:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Carbon tetrachloride	ND	ug/L	5.0	1		11/23/23 04:24	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/23/23 04:24	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/23/23 04:24	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/23/23 04:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/23/23 04:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/23/23 04:24	156-60-5	
Naphthalene	ND	ug/L	5.0	1		11/23/23 04:24	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/23/23 04:24	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/23/23 04:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/23/23 04:24	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/23/23 04:24	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/23/23 04:24	75-01-4	
Surrogates								
Dibromofluoromethane (S)	102	%.	82-128	1		11/23/23 04:24	1868-53-7	
4-Bromofluorobenzene (S)	93	%.	79-124	1		11/23/23 04:24	460-00-4	
Toluene-d8 (S)	95	%.	73-122	1		11/23/23 04:24	2037-26-5	

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ANALYTICAL RESULTS

Project: Factory Street
Pace Project No.: 50360041

Sample: MW-6S **Lab ID: 50360041021** Collected: 11/14/23 12:10 Received: 11/17/23 13:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Carbon tetrachloride	ND	ug/L	5.0	1		11/23/23 04:57	56-23-5	
Chloroform	**11.9**	ug/L	5.0	1		11/23/23 04:57	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/23/23 04:57	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/23/23 04:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/23/23 04:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/23/23 04:57	156-60-5	
Naphthalene	ND	ug/L	5.0	1		11/23/23 04:57	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/23/23 04:57	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/23/23 04:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/23/23 04:57	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/23/23 04:57	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/23/23 04:57	75-01-4	
Surrogates								
Dibromofluoromethane (S)	103	%.	82-128	1		11/23/23 04:57	1868-53-7	
4-Bromofluorobenzene (S)	92	%.	79-124	1		11/23/23 04:57	460-00-4	
Toluene-d8 (S)	94	%.	73-122	1		11/23/23 04:57	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Factory Street
Pace Project No.: 50360041

Sample: MW-7D **Lab ID: 50360041022** Collected: 11/14/23 16:30 Received: 11/17/23 13:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Carbon tetrachloride	ND	ug/L	5.0	1		11/23/23 05:30	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/23/23 05:30	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/23/23 05:30	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/23/23 05:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/23/23 05:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/23/23 05:30	156-60-5	
Naphthalene	ND	ug/L	5.0	1		11/23/23 05:30	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/23/23 05:30	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/23/23 05:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/23/23 05:30	79-00-5	
Trichloroethene	**6.1**	ug/L	5.0	1		11/23/23 05:30	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/23/23 05:30	75-01-4	
Surrogates								
Dibromofluoromethane (S)	102	%.	82-128	1		11/23/23 05:30	1868-53-7	
4-Bromofluorobenzene (S)	93	%.	79-124	1		11/23/23 05:30	460-00-4	
Toluene-d8 (S)	95	%.	73-122	1		11/23/23 05:30	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Factory Street
Pace Project No.: 50360041

Sample: MW-7I **Lab ID: 50360041023** Collected: 11/16/23 14:55 Received: 11/17/23 13:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Carbon tetrachloride	ND	ug/L	50.0	10		11/23/23 06:03	56-23-5	
Chloroform	ND	ug/L	50.0	10		11/23/23 06:03	67-66-3	
1,1-Dichloroethane	ND	ug/L	50.0	10		11/23/23 06:03	75-34-3	
1,1-Dichloroethene	ND	ug/L	50.0	10		11/23/23 06:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	50.0	10		11/23/23 06:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	50.0	10		11/23/23 06:03	156-60-5	
Naphthalene	ND	ug/L	50.0	10		11/23/23 06:03	91-20-3	
Tetrachloroethene	ND	ug/L	50.0	10		11/23/23 06:03	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	50.0	10		11/23/23 06:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	50.0	10		11/23/23 06:03	79-00-5	
Trichloroethene	**14700**	ug/L	500	100		11/23/23 06:35	79-01-6	
Vinyl chloride	ND	ug/L	20.0	10		11/23/23 06:03	75-01-4	
Surrogates								
Dibromofluoromethane (S)	100	%.	82-128	10		11/23/23 06:03	1868-53-7	
4-Bromofluorobenzene (S)	94	%.	79-124	10		11/23/23 06:03	460-00-4	
Toluene-d8 (S)	95	%.	73-122	10		11/23/23 06:03	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Factory Street
Pace Project No.: 50360041

Sample: MW-7S **Lab ID: 50360041024** Collected: 11/16/23 13:50 Received: 11/17/23 13:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Carbon tetrachloride	ND	ug/L	50.0	10		11/23/23 07:08	56-23-5	
Chloroform	ND	ug/L	50.0	10		11/23/23 07:08	67-66-3	
1,1-Dichloroethane	ND	ug/L	50.0	10		11/23/23 07:08	75-34-3	
1,1-Dichloroethene	ND	ug/L	50.0	10		11/23/23 07:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	50.0	10		11/23/23 07:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	50.0	10		11/23/23 07:08	156-60-5	
Naphthalene	ND	ug/L	50.0	10		11/23/23 07:08	91-20-3	
Tetrachloroethene	ND	ug/L	50.0	10		11/23/23 07:08	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	50.0	10		11/23/23 07:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	50.0	10		11/23/23 07:08	79-00-5	
Trichloroethene	**4590**	ug/L	500	100		11/23/23 07:41	79-01-6	
Vinyl chloride	ND	ug/L	20.0	10		11/23/23 07:08	75-01-4	
Surrogates								
Dibromofluoromethane (S)	101	%.	82-128	10		11/23/23 07:08	1868-53-7	
4-Bromofluorobenzene (S)	93	%.	79-124	10		11/23/23 07:08	460-00-4	
Toluene-d8 (S)	94	%.	73-122	10		11/23/23 07:08	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Factory Street
Pace Project No.: 50360041

Sample: MW-8D **Lab ID: 50360041025** Collected: 11/14/23 16:40 Received: 11/17/23 13:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Carbon tetrachloride	ND	ug/L	5.0	1		11/23/23 08:13	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/23/23 08:13	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/23/23 08:13	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/23/23 08:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/23/23 08:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/23/23 08:13	156-60-5	
Naphthalene	ND	ug/L	5.0	1		11/23/23 08:13	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/23/23 08:13	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/23/23 08:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/23/23 08:13	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/23/23 08:13	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/23/23 08:13	75-01-4	
Surrogates								
Dibromofluoromethane (S)	101	%.	82-128	1		11/23/23 08:13	1868-53-7	
4-Bromofluorobenzene (S)	92	%.	79-124	1		11/23/23 08:13	460-00-4	
Toluene-d8 (S)	95	%.	73-122	1		11/23/23 08:13	2037-26-5	

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ANALYTICAL RESULTS

Project: Factory Street
Pace Project No.: 50360041

Sample: MW-8S **Lab ID: 50360041026** Collected: 11/16/23 12:20 Received: 11/17/23 13:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Carbon tetrachloride	ND	ug/L	25.0	5		11/23/23 08:46	56-23-5	
Chloroform	ND	ug/L	25.0	5		11/23/23 08:46	67-66-3	
1,1-Dichloroethane	ND	ug/L	25.0	5		11/23/23 08:46	75-34-3	
1,1-Dichloroethene	ND	ug/L	25.0	5		11/23/23 08:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	25.0	5		11/23/23 08:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	25.0	5		11/23/23 08:46	156-60-5	
Naphthalene	ND	ug/L	25.0	5		11/23/23 08:46	91-20-3	
Tetrachloroethene	ND	ug/L	25.0	5		11/23/23 08:46	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	25.0	5		11/23/23 08:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	25.0	5		11/23/23 08:46	79-00-5	
Trichloroethene	**1120**	ug/L	25.0	5		11/23/23 08:46	79-01-6	
Vinyl chloride	ND	ug/L	10.0	5		11/23/23 08:46	75-01-4	
Surrogates								
Dibromofluoromethane (S)	100	%.	82-128	5		11/23/23 08:46	1868-53-7	
4-Bromofluorobenzene (S)	92	%.	79-124	5		11/23/23 08:46	460-00-4	
Toluene-d8 (S)	93	%.	73-122	5		11/23/23 08:46	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Factory Street
Pace Project No.: 50360041

Sample: MW-9D **Lab ID: 50360041027** Collected: 11/15/23 11:30 Received: 11/17/23 13:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Carbon tetrachloride	ND	ug/L	5.0	1		11/23/23 09:52	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/23/23 09:52	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/23/23 09:52	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/23/23 09:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/23/23 09:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/23/23 09:52	156-60-5	
Naphthalene	ND	ug/L	5.0	1		11/23/23 09:52	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/23/23 09:52	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/23/23 09:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/23/23 09:52	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/23/23 09:52	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/23/23 09:52	75-01-4	
Surrogates								
Dibromofluoromethane (S)	100	%.	82-128	1		11/23/23 09:52	1868-53-7	
4-Bromofluorobenzene (S)	92	%.	79-124	1		11/23/23 09:52	460-00-4	
Toluene-d8 (S)	94	%.	73-122	1		11/23/23 09:52	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Factory Street
Pace Project No.: 50360041

Sample: MW-9S **Lab ID: 50360041028** Collected: 11/15/23 16:30 Received: 11/17/23 13:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Carbon tetrachloride	ND	ug/L	5.0	1		11/23/23 10:24	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/23/23 10:24	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/23/23 10:24	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/23/23 10:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/23/23 10:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/23/23 10:24	156-60-5	
Naphthalene	ND	ug/L	5.0	1		11/23/23 10:24	91-20-3	
Tetrachloroethene	**97.2**	ug/L	5.0	1		11/23/23 10:24	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/23/23 10:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/23/23 10:24	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/23/23 10:24	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/23/23 10:24	75-01-4	
Surrogates								
Dibromofluoromethane (S)	99	%.	82-128	1		11/23/23 10:24	1868-53-7	
4-Bromofluorobenzene (S)	93	%.	79-124	1		11/23/23 10:24	460-00-4	
Toluene-d8 (S)	95	%.	73-122	1		11/23/23 10:24	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
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ANALYTICAL RESULTS

Project: Factory Street
Pace Project No.: 50360041

Sample: OW-1D **Lab ID: 50360041029** Collected: 11/16/23 09:05 Received: 11/17/23 13:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Carbon tetrachloride	ND	ug/L	5.0	1		11/23/23 10:57	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/23/23 10:57	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/23/23 10:57	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/23/23 10:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/23/23 10:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/23/23 10:57	156-60-5	
Naphthalene	ND	ug/L	5.0	1		11/23/23 10:57	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/23/23 10:57	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/23/23 10:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/23/23 10:57	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/23/23 10:57	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/23/23 10:57	75-01-4	
Surrogates								
Dibromofluoromethane (S)	101	%.	82-128	1		11/23/23 10:57	1868-53-7	
4-Bromofluorobenzene (S)	93	%.	79-124	1		11/23/23 10:57	460-00-4	
Toluene-d8 (S)	95	%.	73-122	1		11/23/23 10:57	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Factory Street
Pace Project No.: 50360041

Sample: OW-1S **Lab ID: 50360041030** Collected: 11/16/23 15:05 Received: 11/17/23 13:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Carbon tetrachloride	ND	ug/L	5.0	1		11/23/23 11:30	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/23/23 11:30	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/23/23 11:30	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/23/23 11:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/23/23 11:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/23/23 11:30	156-60-5	
Naphthalene	ND	ug/L	5.0	1		11/23/23 11:30	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/23/23 11:30	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/23/23 11:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/23/23 11:30	79-00-5	
Trichloroethene	**390**	ug/L	50.0	10		11/23/23 12:03	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/23/23 11:30	75-01-4	
Surrogates								
Dibromofluoromethane (S)	101	%.	82-128	1		11/23/23 11:30	1868-53-7	
4-Bromofluorobenzene (S)	93	%.	79-124	1		11/23/23 11:30	460-00-4	
Toluene-d8 (S)	95	%.	73-122	1		11/23/23 11:30	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Factory Street
Pace Project No.: 50360041

Sample: OW-2D **Lab ID: 50360041031** Collected: 11/15/23 13:45 Received: 11/17/23 13:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Carbon tetrachloride	ND	ug/L	5.0	1		11/27/23 13:12	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/27/23 13:12	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/27/23 13:12	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/27/23 13:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/27/23 13:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/27/23 13:12	156-60-5	
Naphthalene	ND	ug/L	5.0	1		11/27/23 13:12	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/27/23 13:12	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/27/23 13:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/27/23 13:12	79-00-5	
Trichloroethene	**64.6**	ug/L	5.0	1		11/27/23 13:12	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/27/23 13:12	75-01-4	
Surrogates								
Dibromofluoromethane (S)	103	%.	82-128	1		11/27/23 13:12	1868-53-7	
4-Bromofluorobenzene (S)	95	%.	79-124	1		11/27/23 13:12	460-00-4	
Toluene-d8 (S)	92	%.	73-122	1		11/27/23 13:12	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Factory Street
Pace Project No.: 50360041

Sample: OW-2S **Lab ID: 50360041032** Collected: 11/16/23 17:50 Received: 11/17/23 13:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Carbon tetrachloride	ND	ug/L	25.0	5		11/27/23 13:45	56-23-5	
Chloroform	ND	ug/L	25.0	5		11/27/23 13:45	67-66-3	
1,1-Dichloroethane	ND	ug/L	25.0	5		11/27/23 13:45	75-34-3	
1,1-Dichloroethene	ND	ug/L	25.0	5		11/27/23 13:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	25.0	5		11/27/23 13:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	25.0	5		11/27/23 13:45	156-60-5	
Naphthalene	ND	ug/L	25.0	5		11/27/23 13:45	91-20-3	
Tetrachloroethene	ND	ug/L	25.0	5		11/27/23 13:45	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	25.0	5		11/27/23 13:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	25.0	5		11/27/23 13:45	79-00-5	
Trichloroethene	**2650**	ug/L	250	50		11/27/23 14:18	79-01-6	
Vinyl chloride	ND	ug/L	10.0	5		11/27/23 13:45	75-01-4	
Surrogates								
Dibromofluoromethane (S)	103	%.	82-128	5		11/27/23 13:45	1868-53-7	
4-Bromofluorobenzene (S)	94	%.	79-124	5		11/27/23 13:45	460-00-4	
Toluene-d8 (S)	92	%.	73-122	5		11/27/23 13:45	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Factory Street
Pace Project No.: 50360041

Sample: DUP-1 **Lab ID: 50360041033** Collected: 11/16/23 08:00 Received: 11/17/23 13:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Carbon tetrachloride	ND	ug/L	50.0	10		11/27/23 14:50	56-23-5	
Chloroform	ND	ug/L	50.0	10		11/27/23 14:50	67-66-3	
1,1-Dichloroethane	ND	ug/L	50.0	10		11/27/23 14:50	75-34-3	
1,1-Dichloroethene	ND	ug/L	50.0	10		11/27/23 14:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	50.0	10		11/27/23 14:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	50.0	10		11/27/23 14:50	156-60-5	
Naphthalene	ND	ug/L	50.0	10		11/27/23 14:50	91-20-3	
Tetrachloroethene	ND	ug/L	50.0	10		11/27/23 14:50	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	50.0	10		11/27/23 14:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	50.0	10		11/27/23 14:50	79-00-5	
Trichloroethene	**14500**	ug/L	500	100		11/27/23 15:23	79-01-6	
Vinyl chloride	ND	ug/L	20.0	10		11/27/23 14:50	75-01-4	
Surrogates								
Dibromofluoromethane (S)	100	%.	82-128	10		11/27/23 14:50	1868-53-7	
4-Bromofluorobenzene (S)	94	%.	79-124	10		11/27/23 14:50	460-00-4	
Toluene-d8 (S)	93	%.	73-122	10		11/27/23 14:50	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Factory Street
Pace Project No.: 50360041

Sample: DUP-2 **Lab ID: 50360041034** Collected: 11/16/23 08:00 Received: 11/17/23 13:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Carbon tetrachloride	ND	ug/L	25.0	5		11/27/23 15:56	56-23-5	
Chloroform	ND	ug/L	25.0	5		11/27/23 15:56	67-66-3	
1,1-Dichloroethane	ND	ug/L	25.0	5		11/27/23 15:56	75-34-3	
1,1-Dichloroethene	ND	ug/L	25.0	5		11/27/23 15:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	25.0	5		11/27/23 15:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	25.0	5		11/27/23 15:56	156-60-5	
Naphthalene	ND	ug/L	25.0	5		11/27/23 15:56	91-20-3	
Tetrachloroethene	ND	ug/L	25.0	5		11/27/23 15:56	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	25.0	5		11/27/23 15:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	25.0	5		11/27/23 15:56	79-00-5	
Trichloroethene	**2460**	ug/L	250	50		11/27/23 16:28	79-01-6	
Vinyl chloride	ND	ug/L	10.0	5		11/27/23 15:56	75-01-4	
Surrogates								
Dibromofluoromethane (S)	102	%.	82-128	5		11/27/23 15:56	1868-53-7	
4-Bromofluorobenzene (S)	94	%.	79-124	5		11/27/23 15:56	460-00-4	
Toluene-d8 (S)	94	%.	73-122	5		11/27/23 15:56	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Factory Street
Pace Project No.: 50360041

Sample: EB-1 **Lab ID: 50360041035** Collected: 11/16/23 12:35 Received: 11/17/23 13:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Carbon tetrachloride	ND	ug/L	5.0	1		11/27/23 17:01	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/27/23 17:01	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/27/23 17:01	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/27/23 17:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/27/23 17:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/27/23 17:01	156-60-5	
Naphthalene	ND	ug/L	5.0	1		11/27/23 17:01	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/27/23 17:01	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/27/23 17:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/27/23 17:01	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/27/23 17:01	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/27/23 17:01	75-01-4	
Surrogates								
Dibromofluoromethane (S)	101	%.	82-128	1		11/27/23 17:01	1868-53-7	
4-Bromofluorobenzene (S)	94	%.	79-124	1		11/27/23 17:01	460-00-4	
Toluene-d8 (S)	93	%.	73-122	1		11/27/23 17:01	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Factory Street
Pace Project No.: 50360041

Sample: EB-2 **Lab ID: 50360041036** Collected: 11/16/23 12:45 Received: 11/17/23 13:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Carbon tetrachloride	ND	ug/L	5.0	1		11/27/23 17:34	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/27/23 17:34	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/27/23 17:34	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/27/23 17:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/27/23 17:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/27/23 17:34	156-60-5	
Naphthalene	ND	ug/L	5.0	1		11/27/23 17:34	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/27/23 17:34	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/27/23 17:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/27/23 17:34	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/27/23 17:34	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/27/23 17:34	75-01-4	
Surrogates								
Dibromofluoromethane (S)	102	%.	82-128	1		11/27/23 17:34	1868-53-7	
4-Bromofluorobenzene (S)	93	%.	79-124	1		11/27/23 17:34	460-00-4	
Toluene-d8 (S)	94	%.	73-122	1		11/27/23 17:34	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Factory Street
Pace Project No.: 50360041

Sample: EB-3 **Lab ID: 50360041037** Collected: 11/16/23 16:40 Received: 11/17/23 13:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Carbon tetrachloride	ND	ug/L	5.0	1		11/27/23 18:06	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/27/23 18:06	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/27/23 18:06	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/27/23 18:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/27/23 18:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/27/23 18:06	156-60-5	
Naphthalene	ND	ug/L	5.0	1		11/27/23 18:06	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/27/23 18:06	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/27/23 18:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/27/23 18:06	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/27/23 18:06	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/27/23 18:06	75-01-4	
Surrogates								
Dibromofluoromethane (S)	103	%.	82-128	1		11/27/23 18:06	1868-53-7	
4-Bromofluorobenzene (S)	93	%.	79-124	1		11/27/23 18:06	460-00-4	
Toluene-d8 (S)	94	%.	73-122	1		11/27/23 18:06	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Factory Street
Pace Project No.: 50360041

Sample: TB-1 **Lab ID: 50360041038** Collected: 11/14/23 08:00 Received: 11/17/23 13:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Carbon tetrachloride	ND	ug/L	5.0	1		11/27/23 18:39	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/27/23 18:39	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/27/23 18:39	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/27/23 18:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/27/23 18:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/27/23 18:39	156-60-5	
Naphthalene	ND	ug/L	5.0	1		11/27/23 18:39	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/27/23 18:39	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/27/23 18:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/27/23 18:39	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/27/23 18:39	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/27/23 18:39	75-01-4	
Surrogates								
Dibromofluoromethane (S)	102	%.	82-128	1		11/27/23 18:39	1868-53-7	
4-Bromofluorobenzene (S)	94	%.	79-124	1		11/27/23 18:39	460-00-4	
Toluene-d8 (S)	94	%.	73-122	1		11/27/23 18:39	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Factory Street
Pace Project No.: 50360041

QC Batch: 764338
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50360041001, 50360041002, 50360041003, 50360041004, 50360041005, 50360041006

METHOD BLANK: 3503476 Matrix: Water
Associated Lab Samples: 50360041001, 50360041002, 50360041003, 50360041004, 50360041005, 50360041006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	11/22/23 04:12	
1,1,2-Trichloroethane	ug/L	ND	5.0	11/22/23 04:12	
1,1-Dichloroethane	ug/L	ND	5.0	11/22/23 04:12	
1,1-Dichloroethene	ug/L	ND	5.0	11/22/23 04:12	
Carbon tetrachloride	ug/L	ND	5.0	11/22/23 04:12	
Chloroform	ug/L	ND	5.0	11/22/23 04:12	
cis-1,2-Dichloroethene	ug/L	ND	5.0	11/22/23 04:12	
Naphthalene	ug/L	ND	5.0	11/22/23 04:12	
Tetrachloroethene	ug/L	ND	5.0	11/22/23 04:12	
trans-1,2-Dichloroethene	ug/L	ND	5.0	11/22/23 04:12	
Trichloroethene	ug/L	ND	5.0	11/22/23 04:12	
Vinyl chloride	ug/L	ND	2.0	11/22/23 04:12	
4-Bromofluorobenzene (S)	%.	93	79-124	11/22/23 04:12	
Dibromofluoromethane (S)	%.	102	82-128	11/22/23 04:12	
Toluene-d8 (S)	%.	93	73-122	11/22/23 04:12	

LABORATORY CONTROL SAMPLE: 3503477

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.2	104	76-127	
1,1,2-Trichloroethane	ug/L	50	50.1	100	79-124	
1,1-Dichloroethane	ug/L	50	51.0	102	76-123	
1,1-Dichloroethene	ug/L	50	53.4	107	73-133	
Carbon tetrachloride	ug/L	50	53.5	107	78-132	
Chloroform	ug/L	50	52.1	104	75-118	
cis-1,2-Dichloroethene	ug/L	50	52.2	104	76-125	
Naphthalene	ug/L	50	44.3	89	70-132	
Tetrachloroethene	ug/L	50	51.8	104	73-132	
trans-1,2-Dichloroethene	ug/L	50	51.8	104	74-125	
Trichloroethene	ug/L	50	51.9	104	75-127	
Vinyl chloride	ug/L	50	49.9	100	48-133	
4-Bromofluorobenzene (S)	%.			95	79-124	
Dibromofluoromethane (S)	%.			101	82-128	
Toluene-d8 (S)	%.			99	73-122	

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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Factory Street
Pace Project No.: 50360041

MATRIX SPIKE SAMPLE: 3503478

Parameter	Units	50360041001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	50	52.4	105	63-138	
1,1,2-Trichloroethane	ug/L	ND	50	47.7	95	63-142	
1,1-Dichloroethane	ug/L	ND	50	49.2	98	64-138	
1,1-Dichloroethene	ug/L	ND	50	52.8	106	65-139	
Carbon tetrachloride	ug/L	18.7	50	74.2	111	65-156	
Chloroform	ug/L	ND	50	51.8	102	64-133	
cis-1,2-Dichloroethene	ug/L	ND	50	50.6	101	59-141	
Naphthalene	ug/L	ND	50	42.1	84	51-135	
Tetrachloroethene	ug/L	ND	50	56.4	103	43-149	
trans-1,2-Dichloroethene	ug/L	ND	50	50.2	100	63-133	
Trichloroethene	ug/L	ND	50	52.6	103	52-145	
Vinyl chloride	ug/L	ND	50	47.5	95	43-139	
4-Bromofluorobenzene (S)	%.				93	79-124	
Dibromofluoromethane (S)	%.				101	82-128	
Toluene-d8 (S)	%.				98	73-122	

SAMPLE DUPLICATE: 3503479

Parameter	Units	50360041002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	ND		20	
1,1,2-Trichloroethane	ug/L	ND	ND		20	
1,1-Dichloroethane	ug/L	ND	ND		20	
1,1-Dichloroethene	ug/L	ND	ND		20	
Carbon tetrachloride	ug/L	ND	ND		20	
Chloroform	ug/L	ND	ND		20	
cis-1,2-Dichloroethene	ug/L	ND	ND		20	
Naphthalene	ug/L	ND	ND		20	
Tetrachloroethene	ug/L	ND	ND		20	
trans-1,2-Dichloroethene	ug/L	ND	ND		20	
Trichloroethene	ug/L	24.5	23.3	5	20	
Vinyl chloride	ug/L	ND	ND		20	
4-Bromofluorobenzene (S)	%.	93	93			
Dibromofluoromethane (S)	%.	102	102			
Toluene-d8 (S)	%.	94	94			

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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Factory Street
Pace Project No.: 50360041

QC Batch: 764587
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50360041007, 50360041008, 50360041009, 50360041010, 50360041011, 50360041012, 50360041013, 50360041014, 50360041015, 50360041016, 50360041017, 50360041018

METHOD BLANK: 3504563 Matrix: Water
Associated Lab Samples: 50360041007, 50360041008, 50360041009, 50360041010, 50360041011, 50360041012, 50360041013, 50360041014, 50360041015, 50360041016, 50360041017, 50360041018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	11/22/23 14:46	
1,1,2-Trichloroethane	ug/L	ND	5.0	11/22/23 14:46	
1,1-Dichloroethane	ug/L	ND	5.0	11/22/23 14:46	
1,1-Dichloroethene	ug/L	ND	5.0	11/22/23 14:46	
Carbon tetrachloride	ug/L	ND	5.0	11/22/23 14:46	
Chloroform	ug/L	ND	5.0	11/22/23 14:46	
cis-1,2-Dichloroethene	ug/L	ND	5.0	11/22/23 14:46	
Naphthalene	ug/L	ND	5.0	11/22/23 14:46	
Tetrachloroethene	ug/L	ND	5.0	11/22/23 14:46	
trans-1,2-Dichloroethene	ug/L	ND	5.0	11/22/23 14:46	
Trichloroethene	ug/L	ND	5.0	11/22/23 14:46	
Vinyl chloride	ug/L	ND	2.0	11/22/23 14:46	
4-Bromofluorobenzene (S)	%.	93	79-124	11/22/23 14:46	
Dibromofluoromethane (S)	%.	103	82-128	11/22/23 14:46	1d
Toluene-d8 (S)	%.	94	73-122	11/22/23 14:46	

LABORATORY CONTROL SAMPLE: 3504564

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.1	104	76-127	
1,1,2-Trichloroethane	ug/L	50	51.0	102	79-124	
1,1-Dichloroethane	ug/L	50	50.2	100	76-123	
1,1-Dichloroethene	ug/L	50	53.7	107	73-133	
Carbon tetrachloride	ug/L	50	53.4	107	78-132	
Chloroform	ug/L	50	51.7	103	75-118	
cis-1,2-Dichloroethene	ug/L	50	52.0	104	76-125	
Naphthalene	ug/L	50	48.8	98	70-132	
Tetrachloroethene	ug/L	50	54.3	109	73-132	
trans-1,2-Dichloroethene	ug/L	50	52.3	105	74-125	
Trichloroethene	ug/L	50	52.0	104	75-127	
Vinyl chloride	ug/L	50	50.4	101	48-133	
4-Bromofluorobenzene (S)	%.			95	79-124	
Dibromofluoromethane (S)	%.			101	82-128	
Toluene-d8 (S)	%.			100	73-122	

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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Factory Street
Pace Project No.: 50360041

QC Batch: 764592
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50360041019, 50360041020, 50360041021, 50360041022, 50360041023, 50360041024, 50360041025, 50360041026, 50360041027, 50360041028, 50360041029, 50360041030

METHOD BLANK: 3504598 Matrix: Water
Associated Lab Samples: 50360041019, 50360041020, 50360041021, 50360041022, 50360041023, 50360041024, 50360041025, 50360041026, 50360041027, 50360041028, 50360041029, 50360041030

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	11/23/23 02:46	
1,1,2-Trichloroethane	ug/L	ND	5.0	11/23/23 02:46	
1,1-Dichloroethane	ug/L	ND	5.0	11/23/23 02:46	
1,1-Dichloroethene	ug/L	ND	5.0	11/23/23 02:46	
Carbon tetrachloride	ug/L	ND	5.0	11/23/23 02:46	
Chloroform	ug/L	ND	5.0	11/23/23 02:46	
cis-1,2-Dichloroethene	ug/L	ND	5.0	11/23/23 02:46	
Naphthalene	ug/L	ND	5.0	11/23/23 02:46	
Tetrachloroethene	ug/L	ND	5.0	11/23/23 02:46	
trans-1,2-Dichloroethene	ug/L	ND	5.0	11/23/23 02:46	
Trichloroethene	ug/L	ND	5.0	11/23/23 02:46	
Vinyl chloride	ug/L	ND	2.0	11/23/23 02:46	
4-Bromofluorobenzene (S)	%.	93	79-124	11/23/23 02:46	
Dibromofluoromethane (S)	%.	102	82-128	11/23/23 02:46	1d
Toluene-d8 (S)	%.	94	73-122	11/23/23 02:46	

LABORATORY CONTROL SAMPLE: 3504599

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.4	105	76-127	
1,1,2-Trichloroethane	ug/L	50	50.9	102	79-124	
1,1-Dichloroethane	ug/L	50	51.6	103	76-123	
1,1-Dichloroethene	ug/L	50	54.4	109	73-133	
Carbon tetrachloride	ug/L	50	53.1	106	78-132	
Chloroform	ug/L	50	51.5	103	75-118	
cis-1,2-Dichloroethene	ug/L	50	52.4	105	76-125	
Naphthalene	ug/L	50	42.5	85	70-132	
Tetrachloroethene	ug/L	50	51.4	103	73-132	
trans-1,2-Dichloroethene	ug/L	50	51.7	103	74-125	
Trichloroethene	ug/L	50	51.7	103	75-127	
Vinyl chloride	ug/L	50	51.4	103	48-133	
4-Bromofluorobenzene (S)	%.			95	79-124	
Dibromofluoromethane (S)	%.			100	82-128	
Toluene-d8 (S)	%.			100	73-122	

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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Factory Street
Pace Project No.: 50360041

QC Batch: 764851
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50360041031, 50360041032, 50360041033, 50360041034, 50360041035, 50360041036, 50360041037, 50360041038

METHOD BLANK: 3505539 Matrix: Water
Associated Lab Samples: 50360041031, 50360041032, 50360041033, 50360041034, 50360041035, 50360041036, 50360041037, 50360041038

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	11/27/23 12:07	
1,1,2-Trichloroethane	ug/L	ND	5.0	11/27/23 12:07	
1,1-Dichloroethane	ug/L	ND	5.0	11/27/23 12:07	
1,1-Dichloroethene	ug/L	ND	5.0	11/27/23 12:07	
Carbon tetrachloride	ug/L	ND	5.0	11/27/23 12:07	
Chloroform	ug/L	ND	5.0	11/27/23 12:07	
cis-1,2-Dichloroethene	ug/L	ND	5.0	11/27/23 12:07	
Naphthalene	ug/L	ND	5.0	11/27/23 12:07	
Tetrachloroethene	ug/L	ND	5.0	11/27/23 12:07	
trans-1,2-Dichloroethene	ug/L	ND	5.0	11/27/23 12:07	
Trichloroethene	ug/L	ND	5.0	11/27/23 12:07	
Vinyl chloride	ug/L	ND	2.0	11/27/23 12:07	
4-Bromofluorobenzene (S)	%.	93	79-124	11/27/23 12:07	
Dibromofluoromethane (S)	%.	103	82-128	11/27/23 12:07	
Toluene-d8 (S)	%.	91	73-122	11/27/23 12:07	

LABORATORY CONTROL SAMPLE: 3505540

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.7	105	76-127	
1,1,2-Trichloroethane	ug/L	50	50.9	102	79-124	
1,1-Dichloroethane	ug/L	50	53.4	107	76-123	
1,1-Dichloroethene	ug/L	50	55.7	111	73-133	
Carbon tetrachloride	ug/L	50	53.9	108	78-132	
Chloroform	ug/L	50	52.6	105	75-118	
cis-1,2-Dichloroethene	ug/L	50	53.6	107	76-125	
Naphthalene	ug/L	50	43.7	87	70-132	
Tetrachloroethene	ug/L	50	53.0	106	73-132	
trans-1,2-Dichloroethene	ug/L	50	54.0	108	74-125	
Trichloroethene	ug/L	50	54.1	108	75-127	
Vinyl chloride	ug/L	50	53.9	108	48-133	
4-Bromofluorobenzene (S)	%.			95	79-124	
Dibromofluoromethane (S)	%.			99	82-128	
Toluene-d8 (S)	%.			97	73-122	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Factory Street
Pace Project No.: 50360041

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3505541 3505542

Parameter	Units	50360102002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	51.9	54.8	104	110	63-138	5	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	49.9	52.3	100	105	63-142	5	20	
1,1-Dichloroethane	ug/L	ND	50	50	51.4	54.9	103	110	64-138	6	20	
1,1-Dichloroethene	ug/L	ND	50	50	54.8	58.6	110	117	65-139	7	20	
Carbon tetrachloride	ug/L	ND	50	50	53.4	55.9	107	112	65-156	5	20	
Chloroform	ug/L	ND	50	50	52.0	54.8	104	110	64-133	5	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	52.5	55.1	105	110	59-141	5	20	
Naphthalene	ug/L	ND	50	50	40.9	39.0	82	78	51-135	5	20	
Tetrachloroethene	ug/L	ND	50	50	52.1	52.3	104	105	43-149	0	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	52.5	55.7	105	111	63-133	6	20	
Trichloroethene	ug/L	ND	50	50	52.4	54.8	105	110	52-145	4	20	
Vinyl chloride	ug/L	ND	50	50	51.1	54.2	102	108	43-139	6	20	
4-Bromofluorobenzene (S)	%.						94	96	79-124			
Dibromofluoromethane (S)	%.						100	100	82-128			
Toluene-d8 (S)	%.						99	99	73-122			

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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALIFIERS

Project: Factory Street
Pace Project No.: 50360041

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 adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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.

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1d	A matrix spike/matrix spike duplicate could not be performed due to insufficient sample volume.

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Factory Street
Pace Project No.: 50360041

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50360041001	**MW-10S**	EPA 8260	764338		
50360041002	**MW-11S**	EPA 8260	764338		
50360041003	**MW-12D**	EPA 8260	764338		
50360041004	**MW-12S**	EPA 8260	764338		
50360041005	**MW-13S**	EPA 8260	764338		
50360041006	**MW-14S**	EPA 8260	764338		
50360041007	**MW-15S**	EPA 8260	764587		
50360041008	**MW-16S**	EPA 8260	764587		
50360041009	**MW-19S**	EPA 8260	764587		
50360041010	**MW-1D**	EPA 8260	764587		
50360041011	**MW-1**	EPA 8260	764587		
50360041012	**MW-20S**	EPA 8260	764587		
50360041013	**MW-2D**	EPA 8260	764587		
50360041014	**MW-2SR**	EPA 8260	764587		
50360041015	**MW-3S**	EPA 8260	764587		
50360041016	**MW-3D**	EPA 8260	764587		
50360041017	**MW-4**	EPA 8260	764587		
50360041018	**MW-5D**	EPA 8260	764587		
50360041019	**MW-5S**	EPA 8260	764592		
50360041020	**MW-6D**	EPA 8260	764592		
50360041021	**MW-6S**	EPA 8260	764592		
50360041022	**MW-7D**	EPA 8260	764592		
50360041023	**MW-7I**	EPA 8260	764592		
50360041024	**MW-7S**	EPA 8260	764592		
50360041025	**MW-8D**	EPA 8260	764592		
50360041026	**MW-8S**	EPA 8260	764592		
50360041027	**MW-9D**	EPA 8260	764592		
50360041028	**MW-9S**	EPA 8260	764592		
50360041029	**OW-1D**	EPA 8260	764592		
50360041030	**OW-1S**	EPA 8260	764592		
50360041031	**OW-2D**	EPA 8260	764851		
50360041032	**OW-2S**	EPA 8260	764851		
50360041033	**DUP-1**	EPA 8260	764851		
50360041034	**DUP-2**	EPA 8260	764851		
50360041035	**EB-1**	EPA 8260	764851		
50360041036	**EB-2**	EPA 8260	764851		
50360041037	**EB-3**	EPA 8260	764851		
50360041038	**TB-1**	EPA 8260	764851		

Pace® Location Requested (City/State):
Pace Analytical Indianapolis
7726 Moller Road, Indianapolis, IN 46268

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO# : 50360041

50360041

Company Name:	Acuity Environmental Solutions	Contact/Report	Humphress, Jacqueline
Street Address:	7965 East 106th Street, Suite, Fishers, IN 46038	Phone #:	317.294.8506
		E-Mail:	jhumphress@acuityes.com
		Cc E-Mail:	mgrzegorek@acuityes.com , kgray@acuityes.com
Customer Project		Invoice To:	AP
Project Name:	Factory Street	Invoice E-Mail:	pcromwell@acuityes.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET		County / State origin of sample(s):	Indiana

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested: 7 BD

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

Specify Container Size **: 6

Identify Container Preservative Type***: 4

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8 TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid MeOH, (11) Other

Lab Use Only
Proj. Mgr: **Allison Martinez**
AcctNum / Client ID:
Table #:
Profile / Template: **9132 / 2**
Prelog / Bottle Ord. ID: **1150486**

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	VOC by 8260	Sample Comment
MW-10S	WT	G	11/15/23	1320					3	X	001
MW-11S	WT	G	11/16/23	1028					3	X	002
MW-12D	WT	G	11/15/23	0935					3	X	003
MW-12S	WT	G	11/16/23	1215					3	X	004
MW-13S	WT	G	11/16/23	1010					3	X	005
MW-14S	WT	G	11/15/23	1225					3	X	006
MW-15S	WT	G	11/15/23	1625					3	X	007
MW-16S	WT	G	11/16/23	1035					3	X	008
MW-19S	WT	G	11/15/23	1415					3	X	009
MW-1D	WT	G	11/14/23	1005					3	X	010

Customer Remarks / Special Conditions / Possible Hazards:
Short List VOCs: Carbon Tetrachloride, Chloroform, 1,1-Dichloroethane, 1,1-Dichloroethene, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene, Naphthalene, Tetrachloroethene, 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, Trichloroethene, and Vinyl Chloride

Collected By: Kailey Gray, Michael Grzegorek
Printed Name: Jacqueline Humphress
Signature:

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp
1	C	0.0	3.3	3.3

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
AES	11/17/23 1330		11/17/23 1330

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Pace® Location Requested (City/State):
Pace Analytical Indianapolis
7726 Moller Road, Indianapolis, IN 46268

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

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Scan QR Code for instructions

Company Name:	Acuity Environmental Solutions	Contact/Report	Humphress, Jacqueline
Street Address:	7965 East 106th Street, Suite, Fishers, IN 46038	Phone #:	317.294.8506
		E-Mail:	jhumphress@acuityes.com
		Cc E-Mail:	mgrzegorek@acuityes.com , kgray@acuityes.com
Customer Project		Invoice To:	AP
Project Name:	Factory Street	Invoice E-Mail:	pcromwell@acuityes.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Indiana

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested: 7 BD

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: G

Identify Container Preservative Type***: 4

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8 TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid MeOH, (11) Other

Lab Use Only
Proj. Mgr: **Allison Martinez**
AcctNum / Client ID:
Table #:
Profile / Template: **9132 / 2**
Prelog / Bottle Ord. ID: **1150486**

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. CL2	Number & Type of Containers Plastic	Number & Type of Containers Glass	VOC by 8260	Sample Comment
MW-1	WT	G	11/15/23	1700					3	X	011
MW-20S	WT	G	11/15/23	1505					3	X	012
MW-2D	WT	G	~~1400~~ 11/14	1400					3	X	013
MW-2SR	WT	G	11/15/23	1400					3	X	014
MW-3S	WT	G	11/15/23	1550					3	X	015
MW-3D	WT	G	11/14/23	1030					3	X	016
MW-4	WT	G	11/14/23	1145					3	X	017
MW-5D	WT	G	11/14/23	1510					3	X	018
MW-5S	WT	G	11/16/23	1140					3	X	019
MW-6D	WT	G	11/14/23	1515					3	X	020

Customer Remarks / Special Conditions / Possible Hazards:
Short List VOCs: Carbon Tetrachloride, Chloroform, 1,1-Dichloroethane, 1,1-Dichloroethene, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene, Naphthalene, Tetrachloroethene, 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, Trichloroethene, and Vinyl Chloride

Collected By: Kailey Gray, Michael Grzegorek
Printed Name: Jacqueline Humphress
Signature: [signature]

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp
1	C	0.0	3.3	3.3

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[signature] /AES	11/17/23 1330	[signature] Fisher	11/17/23 1330
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [X] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Pace® Location Requested (City/State):
Pace Analytical Indianapolis
7726 Moller Road, Indianapolis, IN 46268

CHAIN-OF-CUSTODY Analytical Request Document

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Scan QR Code for instructions

Company Name:	Acuity Environmental Solutions	Contact/Report	Humphress, Jacqueline
Street Address:	7965 East 106th Street, Suite, Fishers, IN 46038	Phone #:	317.294.8506
		E-Mail:	jhumphress@acuityes.com
		Cc E-Mail:	mgrzegorek@acuityes.com , kgray@acuityes.com
Customer Project		Invoice To:	AP
Project Name:	Factory Street	Invoice E-Mail:	pcromwell@acuityes.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET		County / State origin of sample(s):	Indiana

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested: 7 BD

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

Specify Container Size **: 6

Identify Container Preservative Type***: 4

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8 TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid MeOH, (11) Other

Lab Use Only
Proj. Mgr: **Allison Martinez**
AcctNum / Client ID:
Table #:
Profile / Template: **9132 / 2**
Prelog / Bottle Ord. ID: **1150486**

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. CL2	Number & Type of Containers Plastic	Number & Type of Containers Glass	VOC by 8260	Sample Comment
MW-6S	WT	G	11/14/23	1210					3	X	021
MW-7D	WT	G	11/14/23	1630					3	X	022
MW-7I	WT	G	11/16/23	1455					3	X	023
MW-7S	WT	G	11/16/23	1350					3	X	024
MW-8D	WT	G	11/14/23	1640					3	X	025
MW-8S	WT	G	11/16/23	1220					3	X	026
MW-9D	WT	G	11/15/23	1130					3	X	027
MW-9S	WT	G	11/15/23	1630					3	X	028
OW-1D	WT	G	11/16/23	0905					3	X	029
OW-1S	WT	G	11/14/23	1505					3	X	030

Customer Remarks / Special Conditions / Possible Hazards:
Short List VOCs: Carbon Tetrachloride, Chloroform, 1,1-Dichloroethane, 1,1-Dichloroethene, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene, Naphthalene, Tetrachloroethene, 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, Trichloroethene, and Vinyl Chloride

Collected By: Kailey Gray, Michael Grzegorek,
Printed Name: Jacqueline Humphress
Signature: [signature]

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp (°C)	Corrected Temp
1	C	0.0	3.3	3.3

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[signature] IAES	11/17/23 1330	[signature]	11/17/23 1330
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier
[ ] FedEX [ ] UPS [ ] Other

Pace® Location Requested (City/State):
Pace Analytical Indianapolis
7726 Moller Road, Indianapolis, IN 46268

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LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Acuity Environmental Solutions	Contact/Report	Humphress, Jacqueline
Street Address:	7965 East 106th Street, Suite, Fishers, IN 46038	Phone #:	317.294.8506
		E-Mail:	jhumphress@acuityes.com
		Cc E-Mail:	mgrzegorek@acuityes.com , kgray@acuityes.com
Customer Project		Invoice To:	AP
Project Name:	Factory Street	Invoice E-Mail:	pcromwell@acuityes.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Indiana

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested: 7 BD

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

Specify Container Size **: 6

Identify Container Preservative Type***: 4

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8 TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid MeOH, (11) Other

Lab Use Only
Proj. Mgr: **Allison Martinez**
AcctNum / Client ID:
Table #:
Profile / Template: **9132 / 2**
Prelog / Bottle Ord. ID: **1150486**

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. CL2	Number & Type of Containers Plastic	Number & Type of Containers Glass	VOC by 8260	Sample Comment
OW-2D	WT	G	11/15/23	1345					3	X	031
OW-2S	WT	G	11/16/23	~~1505~~ 1750					3	X	032
DUP-1	WT	G	11/16/23						3	X	033
DUP-2	WT	G	11/16/23	—					3	X	034
EB-1	WT	G	11/16/23	1235					3	X	035
EB-2	WT	G	11/16/23	1245					3	X	036
EB-3	WT	G	11/16/23	1640					3	X	037
TB-1	WT	G	11/14/23	-						X	038
~~TB-2~~	WT									X	
~~TB-3~~	WT									X	

Customer Remarks / Special Conditions / Possible Hazards:
Short List VOCs: Carbon Tetrachloride, Chloroform, 1,1-Dichloroethane, 1,1-Dichloroethene, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene, Naphthalene, Tetrachloroethene, 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, Trichloroethene, and Vinyl Chloride

Collected By: Kailey Gray, Michael Grzegorek
Printed Name: Jacqueline Humphress
Signature:

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp
1	C	0.0	3.3	3.3

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
IAES	11/17/23 1330		11/17/23 1330

Tracking Number:

Delivered by: [X] In Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Page: 4 of 4

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 11/18/23 0945 JA

1. **Courier:** ☐ FED EX ☐ UPS ☑ CLIENT ☐ PACE ☐ NOW/JETT ☐ OTHER _____

2. **Custody Seal on Cooler/Box Present:** ☐ Yes ☐ No

(If yes)Seals Intact: ☐ Yes ☐ No **(leave blank if no seals were present)**

3. **Thermometer:** 1 2 3 4 5 6 7 8 A B (C) D E F G H

4. **Cooler Temperature(s):** 3.3/3.3 | | | |
(Initial/Corrected) **RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)**

5. **Packing Material:** ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

6. **Ice Type:** ☑ Wet ☐ Blue ☐ None

7. **If temp. is over 6°C or under 0°C, was the PM notified?:** ☐ Yes ☐ No
Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	All containers needing acid/base preservation have been pH CHECKED?: **Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.** **Circle:** **HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9)** Any non-conformance to pH recommendations will be noted on the container count form			
Short Hold Time Analysis (48 hours or less)? Analysis:		✓				✓
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A ✓
Rush TAT Requested (4 days or less):		✓	Residual Chlorine Check (Total/Amenable/Free Cyanide)			✓
Custody Signatures Present?	✓		Headspace Wisconsin Sulfide?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent ✓	No VOA Vials Sent
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?	✓		
Extra labels on Terracore Vials? (soils only)		✓	Trip Blank Custody Seals?:	✓		

COMMENTS:

COC PAGE 1 of 4

Sample Container Count

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGFU	WGKU BG1U	MeOH (only) SBS DI R	DG9H	VG9H	VOA VIAL HS >6mm	VG9U DG9U	VG9T	AMBER GLASS AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	PLASTIC BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER CG3H	CG3F	Syringe Kit		Matrix
1				3																								WT
2																												
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc
Red	Yellow	Green	Black
HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3U	250mL Unpres Clear Glass
DG9T	40mL Na Thio amber vial	AG0U	100mL unpres amber glass
DG9U	40mL unpreserved amber vial	AG1H	1L HCl amber glass
VG9H	40mL HCl clear vial	AG1S	1L H2SO4 amber glass
VG9T	40mL Na Thio. clear vial	AG1T	1L Na Thiosulfate amber glass
VG9U	40mL unpreserved clear vial	AG1U	1liter unpres amber glass
I	40mL w/hexane wipe vial	AG2N	500mL HNO3 amber glass
WGKU	8oz unpreserved clear jar	AG2S	500mL H2SO4 amber glass
WGFU	4oz clear soil jar	AG2U	500mL unpres amber glass
JGFU	4oz unpreserved amber wide	AG3S	250mL H2SO4 amber glass
CG3H	250mL clear glass HCl	AG3SF	250mL H2SO4 amb glass -field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3U	250mL unpres amber glass
BG1H	1L HCl clear glass	AG3B	250mL NaOH amber glass
BG1S	1L H2SO4 clear glass		

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres. FF SO4/OH buffer		

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL	Oil
NAL	Non-aqueous liquid
WP	Wipe

COC PAGE 2 **of** 4

Sample Container Count

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGFU	WGKU BG1U	MeOH (only) SBS DI R	DG9H VG9H	VOA VIAL HS >6mm	VG9U DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit		Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/ZnAc >9
1				3																								WT				
2																																
3																																
4																																
5																																
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7																																
8																																
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Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3U	250mL Unpres Clear Glass
DG9T	40mL Na Thio amber vial	AG0U	100mL unpres amber glass
DG9U	40mL unpreserved amber vial	AG1H	1L HCl amber glass
VG9H	40mL HCl clear vial	AG1S	1L H2SO4 amber glass
VG9T	40mL Na Thio. clear vial	AG1T	1L Na Thiosulfate amber glass
VG9U	40mL unpreserved clear vial	AG1U	1liter unpres amber glass
I	40mL w/hexane wipe vial	AG2N	500mL HNO3 amber glass
WGKU	8oz unpreserved clear jar	AG2S	500mL H2SO4 amber glass
WGFU	4oz clear soil jar	AG2U	500mL unpres amber glass
JGFU	4oz unpreserved amber wide	AG3S	250mL H2SO4 amber glass
CG3H	250mL clear glass HCl	AG3SF	250mL H2SO4 amb glass -field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3U	250mL unpres amber glass
BG1H	1L HCl clear glass	AG3B	250mL NaOH amber glass
BG1S	1L H2SO4 clear glass		

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres. FF SO4/OH buffer		

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL	Oil
NAL	Non-aqueous liquid
WP	Wipe

COC PAGE 3 **of** 4

Sample Container Count

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGFU	WGKU BG1U	MeOH (only) SBS DI R	DG9H VG9H	VOA VIAL HS >6mm	VG9U DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit		Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1				3																								WT				
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3																																
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Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3U	250mL Unpres Clear Glass
DG9T	40mL Na Thio amber vial	AG0U	100mL unpres amber glass
DG9U	40mL unpreserved amber vial	AG1H	1L HCl amber glass
VG9H	40mL HCl clear vial	AG1S	1L H2SO4 amber glass
VG9T	40mL Na Thio. clear vial	AG1T	1L Na Thiosulfate amber glass
VG9U	40mL unpreserved clear vial	AG1U	1liter unpres amber glass
I	40mL w/hexane wipe vial	AG2N	500mL HNO3 amber glass
WGKU	8oz unpreserved clear jar	AG2S	500mL H2SO4 amber glass
WGFU	4oz clear soil jar	AG2U	500mL unpres amber glass
JGFU	4oz unpreserved amber wide	AG3S	250mL H2SO4 amber glass
CG3H	250mL clear glass HCl	AG3SF	250mL H2SO4 amb glass -field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3U	250mL unpres amber glass
BG1H	1L HCl clear glass	AG3B	250mL NaOH amber glass
BG1S	1L H2SO4 clear glass		

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres. FF SO4/OH buffer		

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL	Oil
NAL	Non-aqueous liquid
WP	Wipe

COC PAGE 4 **of** 4

Sample Container Count

** Place a RED dot on containers that are out of conformance **

									AMBER GLASS							PLASTIC									OTHER							
			MeOH (only)																											
			SBS																											
			DI																											
COC Line Item	WGFU	WGKU BG1U	R	DG9H	VG9H	VOA VIAL HS >6mm	VG9U DG9U	VG9T	AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit		Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/ZnAc >9
1					+3																							WT				
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Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3U	250mL Unpres Clear Glass
DG9T	40mL Na Thio amber vial	AG0U	100mL unpres amber glass
DG9U	40mL unpreserved amber vial	AG1H	1L HCl amber glass
VG9H	40mL HCl clear vial	AG1S	1L H2SO4 amber glass
VG9T	40mL Na Thio. clear vial	AG1T	1L Na Thiosulfate amber glass
VG9U	40mL unpreserved clear vial	AG1U	1liter unpres amber glass
I	40mL w/hexane wipe vial	AG2N	500mL HNO3 amber glass
WGKU	8oz unpreserved clear jar	AG2S	500mL H2SO4 amber glass
WGFU	4oz clear soil jar	AG2U	500mL unpres amber glass
JGFU	4oz unpreserved amber wide	AG3S	250mL H2SO4 amber glass
CG3H	250mL clear glass HCl	AG3SF	250mL H2SO4 amb glass -field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3U	250mL unpres amber glass
BG1H	1L HCl clear glass	AG3B	250mL NaOH amber glass
BG1S	1L H2SO4 clear glass		

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres. FF SO4/OH buffer		

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL	Oil
NAL	Non-aqueous liquid
WP	Wipe

Pace Container Order #1150486

Addresses

Order By :		Ship To :		Return To:	
Company	Acuity Environmental Solutions	Company	Acuity Environmental Solutions	Company	Pace Analytical Indianapolis
Contact	Humphress, Jacqueline	Contact	Humphress, Jacqueline	Contact	Martinez, Allison
Email	jhumphress@acuityes.com	Email	jhumphress@acuityes.com	Email	allison.martinez@pacelabs.com
Address	7965 East 106th Street, Suite	Address	7965 East 106th Street, Suite	Address	7726 Moller Road
Address 2		Address 2		Address 2	
City	Fishers	City	Fishers	City	Indianapolis
State	IN Zip 46038	State	IN Zip 46038	State	IN Zip 46268
Phone	317.294.8506	Phone	317.294.8506	Phone	(317)228-3118

Info

Project Name Factory Street **Due Date** 10/30/2023 **Profile** 9132 / 2 **Quote**

Project Manager Martinez, Allison **Return Date** **Carrier** Pace Courier **Location** IN

Trip Blanks

- [X] Include Trip Blanks

Bottle Labels

- [ ] Blank
- [ ] Pre-Printed No Sample IDs
- [X] Pre-Printed With Sample IDs

Bottles

- [ ] Boxed Cases
- [ ] Individually Wrapped
- [ ] Grouped By Sample ID/Matrix

Return Shipping Labels

- [X] No Shipper
- [ ] With Shipper

COC Options

- [ ] Number of Blanks
- [X] Pre-Printed 1

Misc

- [X] Sampling Instructions
- [X] Custody Seal
- [X] Temp. Blanks
- [X] Coolers 3
- [ ] Syringes
- [ ] Extra Bubble Wrap
- [ ] Short Hold/Rush Stickers
- [ ] DI Water Liter(s)
- [ ] USDA Regulated Soils

# of Samples	Matrix	Test	Container	Total	# of QC	Lot #	Notes
37	WT	IN VOC by 8260	3-40mL clear vials, HCl	111	0	092523-3CYR	32 SAMPLES, 2 DUPS, 3 EQ BLANK
3	WT	IN Trip Blank	3-40mL vials, HCl + DI Water	9	0	082123-3CYR	
2	SU	Coolers	large coolers	2	0		

Hazard Shipping Placard In Place : NO

*Sample receiving hours are typically 8am-5pm, but may differ by location. Please check with your Pace Project Manager.

*Pace Analytical reserves the right to return hazardous, toxic, or radioactive samples to you.

*Pace Analytical reserves the right to charge for unused bottles, as well as cost associated with sample storage/disposal.

*Payment term are net 30 days.

*Please include the proposal number on the chain of custody to ensure proper billing.

Sample Notes :

LAB USE:

Ship Date :	10/30/2023
Prepared By:	BH
Verified By:	CRR
Tracking Num:	

CLIENT USE (Optional):

Date Rec'd:	
Received By:	
Verified By:	

Soil Gas Analytical Lab Reports

ANALYTICAL REPORT

November 28, 2023

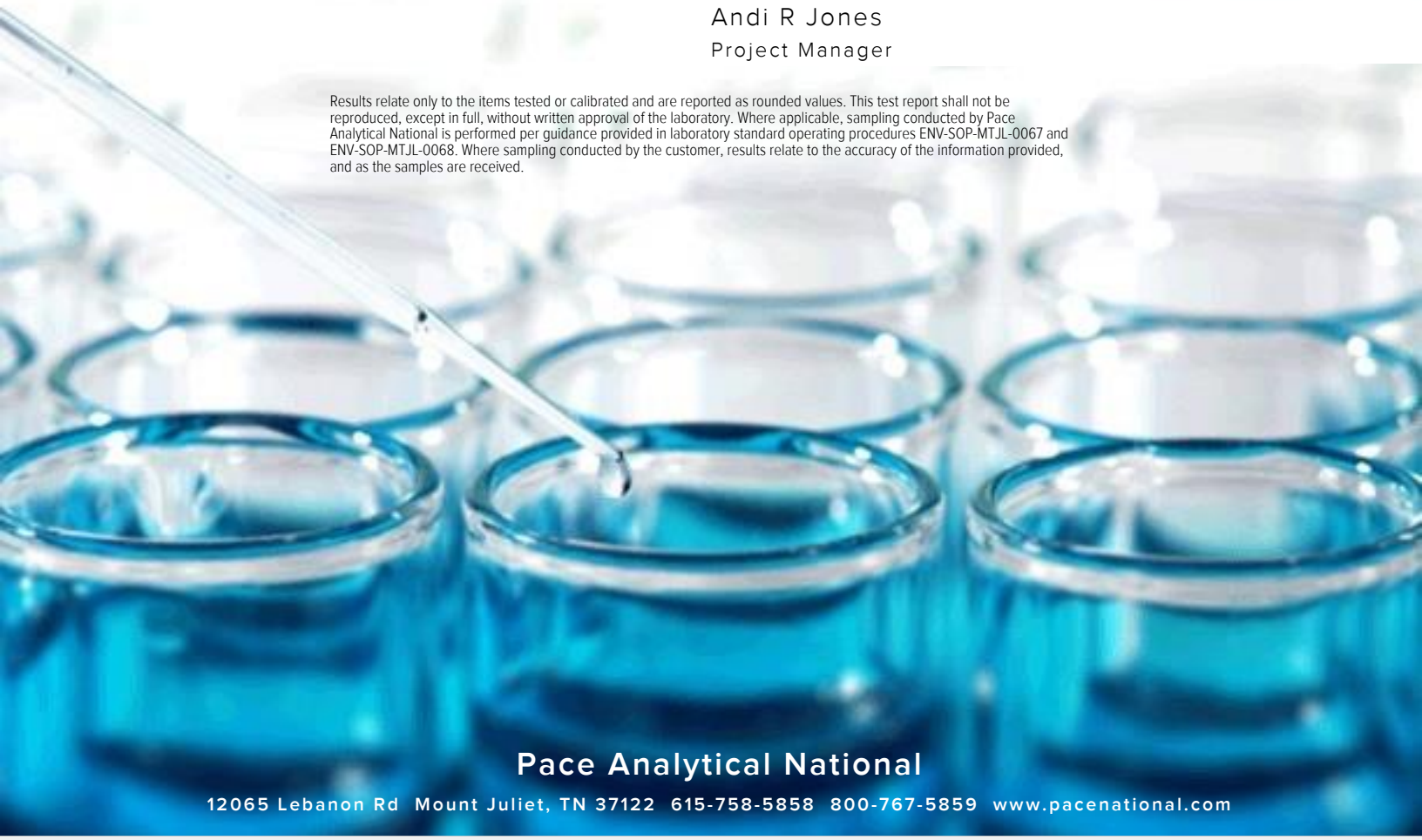
Acuity Environmental Solutions

Sample Delivery Group:	L1678124
Samples Received:	11/15/2023
Project Number:	1042-1005
Description:	La Porte, IN
Site:	FACTORY STREET
Report To:	Michael Grzegorek 7965 East 106th Street Suite 128 Fishers, IN 46038

Entire Report Reviewed By:

Andi R Jones
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

SG-1 L1678124-01 Air

Collected by: Mike Grzegorek | Collected date/time: 11/13/23 11:30 | Received date/time: 11/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2174183	1	11/19/23 14:08	11/19/23 14:08	MNP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2177348	100	11/25/23 17:11	11/25/23 17:11	DBB	Mt. Juliet, TN

SG-2 L1678124-02 Air

Collected by: Mike Grzegorek | Collected date/time: 11/13/23 12:05 | Received date/time: 11/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2174183	1	11/19/23 14:40	11/19/23 14:40	MNP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2177348	1	11/25/23 10:20	11/25/23 10:20	DBB	Mt. Juliet, TN

SG-3 L1678124-03 Air

Collected by: Mike Grzegorek | Collected date/time: 11/13/23 12:50 | Received date/time: 11/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2174183	1	11/19/23 15:11	11/19/23 15:11	MNP	Mt. Juliet, TN

SG-4 L1678124-04 Air

Collected by: Mike Grzegorek | Collected date/time: 11/13/23 13:10 | Received date/time: 11/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2174183	1	11/19/23 15:42	11/19/23 15:42	MNP	Mt. Juliet, TN

SG-5 L1678124-05 Air

Collected by: Mike Grzegorek | Collected date/time: 11/13/23 13:25 | Received date/time: 11/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2174183	1	11/19/23 16:12	11/19/23 16:12	MNP	Mt. Juliet, TN

SG-6 L1678124-06 Air

Collected by: Mike Grzegorek | Collected date/time: 11/13/23 13:45 | Received date/time: 11/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2174183	1	11/19/23 16:44	11/19/23 16:44	MNP	Mt. Juliet, TN

SG-7 L1678124-07 Air

Collected by: Mike Grzegorek | Collected date/time: 11/13/23 14:00 | Received date/time: 11/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2174183	1	11/19/23 17:15	11/19/23 17:15	MNP	Mt. Juliet, TN

SG-8 L1678124-08 Air

Collected by: Mike Grzegorek | Collected date/time: 11/13/23 14:18 | Received date/time: 11/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2174183	1	11/19/23 17:46	11/19/23 17:46	MNP	Mt. Juliet, TN

DUP-02 L1678124-09 Air

Collected by: Mike Grzegorek
Collected date/time: 11/13/23 00:00
Received date/time: 11/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2174183	1	11/19/23 18:17	11/19/23 18:17	MNP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2177348	100	11/25/23 17:39	11/25/23 17:39	DBB	Mt. Juliet, TN

SSIA9 L1678124-10 Air

Collected by: Mike Grzegorek
Collected date/time: 11/13/23 14:55
Received date/time: 11/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2174183	1	11/19/23 18:51	11/19/23 18:51	MNP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2177348	1	11/25/23 11:05	11/25/23 11:05	DBB	Mt. Juliet, TN

SSIA8 L1678124-11 Air

Collected by: Mike Grzegorek
Collected date/time: 11/13/23 14:55
Received date/time: 11/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2174183	1	11/19/23 19:22	11/19/23 19:22	MNP	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Andi R Jones
Project Manager

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL	Result	Qualifier	Dilution	Batch
			ug/m3	ug/m3			
cis-1,2-Dichloroethene	156-59-2	96.90	0.793	ND		1	WG2174183
trans-1,2-Dichloroethene	156-60-5	96.90	0.793	ND		1	WG2174183
Tetrachloroethylene	127-18-4	166	1.36	2.70		1	WG2174183
Trichloroethylene	79-01-6	131	107	15500		100	WG2177348
Vinyl chloride	75-01-4	62.50	0.511	ND		1	WG2174183
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*95.9*		*60.0-140*	WG2174183
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*95.3*		*60.0-140*	WG2177348

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL	Result	Qualifier	Dilution	Batch
			ug/m3	ug/m3			
cis-1,2-Dichloroethene	156-59-2	96.90	0.793	ND		1	WG2174183
trans-1,2-Dichloroethene	156-60-5	96.90	0.793	ND		1	WG2174183
Tetrachloroethylene	127-18-4	166	1.36	5.47		1	WG2174183
Trichloroethylene	79-01-6	131	1.07	ND		1	WG2177348
Vinyl chloride	75-01-4	62.50	0.511	ND		1	WG2174183
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*91.1*		*60.0-140*	WG2174183
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*98.3*		*60.0-140*	WG2177348

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL	Result	Qualifier	Dilution	Batch
			ug/m3	ug/m3			
cis-1,2-Dichloroethene	156-59-2	96.90	0.793	ND		1	WG2174183
trans-1,2-Dichloroethene	156-60-5	96.90	0.793	ND		1	WG2174183
Tetrachloroethylene	127-18-4	166	1.36	10.3		1	WG2174183
Trichloroethylene	79-01-6	131	1.07	141		1	WG2174183
Vinyl chloride	75-01-4	62.50	0.511	ND		1	WG2174183
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*90.0*		*60.0-140*	WG2174183

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL	Result	Qualifier	Dilution	Batch
			ug/m3	ug/m3			
cis-1,2-Dichloroethene	156-59-2	96.90	0.793	ND		1	WG2174183
trans-1,2-Dichloroethene	156-60-5	96.90	0.793	ND		1	WG2174183
Tetrachloroethylene	127-18-4	166	1.36	2.15		1	WG2174183
Trichloroethylene	79-01-6	131	1.07	ND		1	WG2174183
Vinyl chloride	75-01-4	62.50	0.511	ND		1	WG2174183
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*93.0*		*60.0-140*	WG2174183

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL	Result	Qualifier	Dilution	Batch
			ug/m3	ug/m3			
cis-1,2-Dichloroethene	156-59-2	96.90	0.793	ND		1	WG2174183
trans-1,2-Dichloroethene	156-60-5	96.90	0.793	ND		1	WG2174183
Tetrachloroethylene	127-18-4	166	1.36	6.31		1	WG2174183
Trichloroethylene	79-01-6	131	1.07	ND		1	WG2174183
Vinyl chloride	75-01-4	62.50	0.511	ND		1	WG2174183
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*89.3*		*60.0-140*	WG2174183

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL	Result	Qualifier	Dilution	Batch
			ug/m3	ug/m3			
cis-1,2-Dichloroethene	156-59-2	96.90	0.793	ND		1	WG2174183
trans-1,2-Dichloroethene	156-60-5	96.90	0.793	ND		1	WG2174183
Tetrachloroethylene	127-18-4	166	1.36	3.90		1	WG2174183
Trichloroethylene	79-01-6	131	1.07	ND		1	WG2174183
Vinyl chloride	75-01-4	62.50	0.511	ND		1	WG2174183
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*95.4*		*60.0-140*	WG2174183

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL	Result	Qualifier	Dilution	Batch
			ug/m3	ug/m3			
cis-1,2-Dichloroethene	156-59-2	96.90	0.793	ND		1	WG2174183
trans-1,2-Dichloroethene	156-60-5	96.90	0.793	ND		1	WG2174183
Tetrachloroethylene	127-18-4	166	1.36	15.5		1	WG2174183
Trichloroethylene	79-01-6	131	1.07	ND		1	WG2174183
Vinyl chloride	75-01-4	62.50	0.511	ND		1	WG2174183
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*97.7*		*60.0-140*	WG2174183

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL	Result	Qualifier	Dilution	Batch
			ug/m3	ug/m3			
cis-1,2-Dichloroethene	156-59-2	96.90	0.793	ND		1	WG2174183
trans-1,2-Dichloroethene	156-60-5	96.90	0.793	ND		1	WG2174183
Tetrachloroethylene	127-18-4	166	1.36	5.87		1	WG2174183
Trichloroethylene	79-01-6	131	1.07	ND		1	WG2174183
Vinyl chloride	75-01-4	62.50	0.511	ND		1	WG2174183
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*91.8*		*60.0-140*	WG2174183

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL	Result	Qualifier	Dilution	Batch
			ug/m3	ug/m3			
cis-1,2-Dichloroethene	156-59-2	96.90	0.793	ND		1	WG2174183
trans-1,2-Dichloroethene	156-60-5	96.90	0.793	ND		1	WG2174183
Tetrachloroethylene	127-18-4	166	1.36	4.06		1	WG2174183
Trichloroethylene	79-01-6	131	107	10300		100	WG2177348
Vinyl chloride	75-01-4	62.50	0.511	ND		1	WG2174183
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*98.0*		*60.0-140*	WG2174183
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*95.1*		*60.0-140*	WG2177348

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL ug/m3	Result ug/m3	Qualifier	Dilution	Batch
cis-1,2-Dichloroethene	156-59-2	96.90	0.793	ND		1	WG2174183
trans-1,2-Dichloroethene	156-60-5	96.90	0.793	ND		1	WG2174183
Tetrachloroethylene	127-18-4	166	1.36	2.82		1	WG2174183
Trichloroethylene	79-01-6	131	1.07	5.07		1	WG2177348
Vinyl chloride	75-01-4	62.50	0.511	ND		1	WG2174183
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*90.8*		*60.0-140*	WG2174183
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*98.6*		*60.0-140*	WG2177348

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL	Result	Qualifier	Dilution	Batch
			ug/m3	ug/m3			
cis-1,2-Dichloroethene	156-59-2	96.90	0.793	ND		1	WG2174183
trans-1,2-Dichloroethene	156-60-5	96.90	0.793	ND		1	WG2174183
Tetrachloroethylene	127-18-4	166	1.36	ND		1	WG2174183
Trichloroethylene	79-01-6	131	1.07	1.94		1	WG2174183
Vinyl chloride	75-01-4	62.50	0.511	ND		1	WG2174183
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*92.0*		*60.0-140*	WG2174183

Method Blank (MB)

(MB) R4003538-2 11/19/23 11:23

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
Tetrachloroethylene	U		0.0814	0.200
Trichloroethylene	U		0.0680	0.200
Vinyl chloride	U		0.0949	0.200
(S) 1,4-Bromofluorobenzene	*93.8*			*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4003538-1 11/19/23 10:53 • (LCSD) R4003538-3 11/19/23 11:55

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
cis-1,2-Dichloroethene	3.75	4.46	4.08	119	109	70.0-130			8.90	25
trans-1,2-Dichloroethene	3.75	4.59	4.34	122	116	70.0-130			5.60	25
Tetrachloroethylene	3.75	3.74	3.93	99.7	105	70.0-130			4.95	25
Trichloroethylene	3.75	4.44	4.37	118	117	70.0-130			1.59	25
Vinyl chloride	3.75	4.69	4.36	125	116	70.0-130			7.29	25
(S) 1,4-Bromofluorobenzene				*97.3*	*99.6*	*60.0-140*				

Method Blank (MB)

(MB) R4004452-3 11/25/23 08:02

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Trichloroethylene	U		0.0680	0.200
(S) 1,4-Bromofluorobenzene	*96.8*			*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4004452-1 11/25/23 07:04 • (LCSD) R4004452-2 11/25/23 07:33

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Trichloroethylene	3.75	4.12	3.99	110	106	70.0-130			3.21	25
(S) 1,4-Bromofluorobenzene				*97.5*	*98.8*	*60.0-140*				

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

D165

Pace® Location Requested (City/State):

Air CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Sample Receipt Checklist
COC Seal Present/Intact: __Y __N Airs
COC Signed/Accurate: __Y __N Size: __1L __6L __1.4L
Bottles arrive intact: __Y __N Tage Color: G__ W__ P__ B__
Correct bottles used: __Y __N Tubing ___ Shunt ___
6727 1906 7069 T/P#: _____

L1678124

Company Name: **Acuity Environmental Solutions**	Contact/Report To: **Michael Grzegorek**
Street Address: **7965 East 106th Street**	Phone #: **206-914-8802**
	E-Mail: **jhumphress@acuityes.com;mgrzegorek@acuityes.com;ccombes@acuityes.com**
City, State Zip:	Cc E-Mail:
Customer Project #: **1042-1005**	Invoice to:
Project Name: **La Porte, IN**	Invoice E-Mail:
Site Collection Info/Facility ID (as applicable): **ACUITYFIN-10421005 FACTORY STREET**	Purchase Order # (if applicable): **1042-1005**
	Quote #:
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET	State origin of sample(s):

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other_____

Regulatory Program (CAA, RCRA, etc.) as applicable:

Rush (Pre-approval required): 2 Day 3 day 5 day Other_____

Date Results Requested:

Permit # as applicable:

Units for Reporting: ug/m³ PPBV mg/m³ PPMV

Field Information

Analyses Requested

Lab Use Only

Proj. Manager: **4089 - Andi R Jones**

AcctNum / Client ID: **ACUITYFIN**

Table #:

Profile / Template: **T234664**

Prelog / Bottle Ord. ID: **P1034582**

* Matrix Codes (Insert in Matrix box below): Ambient (A), Indoor (I), Soil Vapor (SV), Other (O)

Customer Sample ID	Matrix *	Summa Canister ID	Flow Controller ID	Begin Collection Date	Begin Collection Time	End Collection Date	End Collection Time	Canister Pressure / Vacuum: Start Pressure / Vacuum (in Hg)	Canister Pressure / Vacuum: End Pressure / Vacuum (in Hg)	PUF / FILTER: Duration (minutes)	PUF / FILTER: Flow Rate ml/min or m³/min or L/min	PUF / FILTER: Total Volume Sampled m³ or L	TO-15 Summa				Sample Comment	
SG-1	SV	020664	02882	11/3/23	1125	11/3/23	1130	-27.5	-5.0	5	200 ml/min	1 L	X					-01
SG-2	SV	020327	007487	11/3/23	1200	11/3/23	1205	-19.5	-3.0	5	200 ml/min	1 L	X				low initial pressure	-02
SG-3	SV	020586	015239	11/3/23	1245	11/3/23	1250	-30.0	-5.0	5	200 ml/min	1 L	X					-03
SG-4	SV	020324	028819	11/3/23	1305	11/3/23	1310	-30.0	-5.0	5	200 ml/min	1 L	X					-04
SG-5	SV	028791	013619	11/3/23	1320	11/3/23	1325	-27.0	-5.0	5	200 ml/min	1 L	X					-05
SG-6	SV	020246	020341	11/3/23	1340	11/3/23	1345	-30.0	-5.0	5	200 ml/min	1 L	X					-06
SG-7	SV	022347	029249	11/3/23	1355	11/3/23	1400	-30.0	-5.0	5	200 ml/min	1 L	X					-07
SG-8	SV	020181	029100	11/3/23	1410	11/3/23	1418	-27.5	-5.0	5	200 ml/min	1 L	X					-08
DUP-02	SV	020496	009267	11/3/23	"	11/3/23	"	-29.5	-5.0	5	200 ml/min	1 L	X					-09
SSIA9	SV	020280	012575	11/3/23	1450	11/3/23	1455	-30.0	-2.0	5	200 ml/min	1 L	X					-10

Customer Remarks / Special Conditions / Possible Hazards:
Report cVOCs=cis-1,2DCE,trans-1,2DCE,PCE,TCE,VC

Collected By: Mike Grzegorek
Printed Name:
Signature:

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C): Corrected Temp. (°C):

04

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
	11/6/23	FedEx	11/14/2023	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: In- Person Courier FedEX UPS Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of: 2
			11/15/23 0900	

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State):

Air CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR code for instructions

L1678124

Company Name: **Acuity Environmental Solutions**	Contact/Report To: **Michael Grzegorek**
Street Address: **7965 East 106th Street**	Phone #: **206-914-8802**
	E-Mail: **jhumphress@acuityes.com;mgrzegorek@acuityes.com;ccombes@acuitves.com**
City, State Zip:	Cc E-Mail:
Customer Project #: **1042-1005**	Invoice to:
Project Name: **La Porte, IN**	Invoice E-Mail:
Site Collection Info/Facility ID (as applicable): **ACUITYFIN-10421005 FACTORY STREET**	Purchase Order # (if applicable): **1042-1005**
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET	Quote #:
	State origin of sample(s):

Data Deliverables:

[ ] Level II [ ] Level III [ ] Level IV

[ ] EQUIS

[ ] Other_____

Regulatory Program (CAA, RCRA, etc.) as applicable:

Rush (Pre-approval required): 2 Day 3 day 5 day Other_____

Date Results Requested:

Permit # as applicable:

Units for Reporting: ug/m³ PPBV mg/m³ PPMV

* Matrix Codes (Insert in Matrix box below): Ambient (A), Indoor (I), Soil Vapor (SV), Other (O)

Customer Sample ID	Matrix *	Summa Canister ID	Flow Controller ID	Begin Collection Date	Begin Collection Time	End Collection Date	End Collection Time	Canister Pressure / Vacuum: Start Pressure / Vacuum (in Hg)	Canister Pressure / Vacuum: End Pressure / Vacuum (in Hg)	PUF / FILTER: Duration (minutes)	PUF / FILTER: Flow Rate m³/min or L/min	PUF / FILTER: Total Volume Sampled m³ or L
SSIA8	SV	020328	028206	11/3/23	1505	11/13/23	1510	-30.0	-5.0	5	200 ml/min	1L
SSIA7	SV	020332	012751	11/3/23	1515	11/13/23	1520			5	200 ml/min	1L

Analyses Requested

TO-15 Summa				Sample Comment
X				
X				Do not analyze for O2 because of Start
X				
X				
X				
X				
X				

DLC 11/6/23

Lab Use Only

Proj. Manager: **4089 - Andi R Jones**

AcctNum / Client ID: **ACUITYFIN**

Table #:

Profile / Template: **T234664**

Prelog / Bottle Ord. ID: **P1034582**

Customer Remarks / Special Conditions / Possible Hazards:

Report cVOCs=cis-1,2DCE,trans-1,2DCE,PCE,TCE,VC

Collected By:

Printed Name: Mike Grzegorek

Signature:

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C): Corrected Temp. (°C):

Relinquished by/Company: (Signature)	Date/Time: 11/14/2023	Received by/Company: (Signature) FedEx	Date/Time: 11/14/23
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time: 11/15/23 0900

Tracking Number:

Delivered by: In- Person Courier FedEX UPS Other

Page: 2 of: 2

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ANALYTICAL REPORT

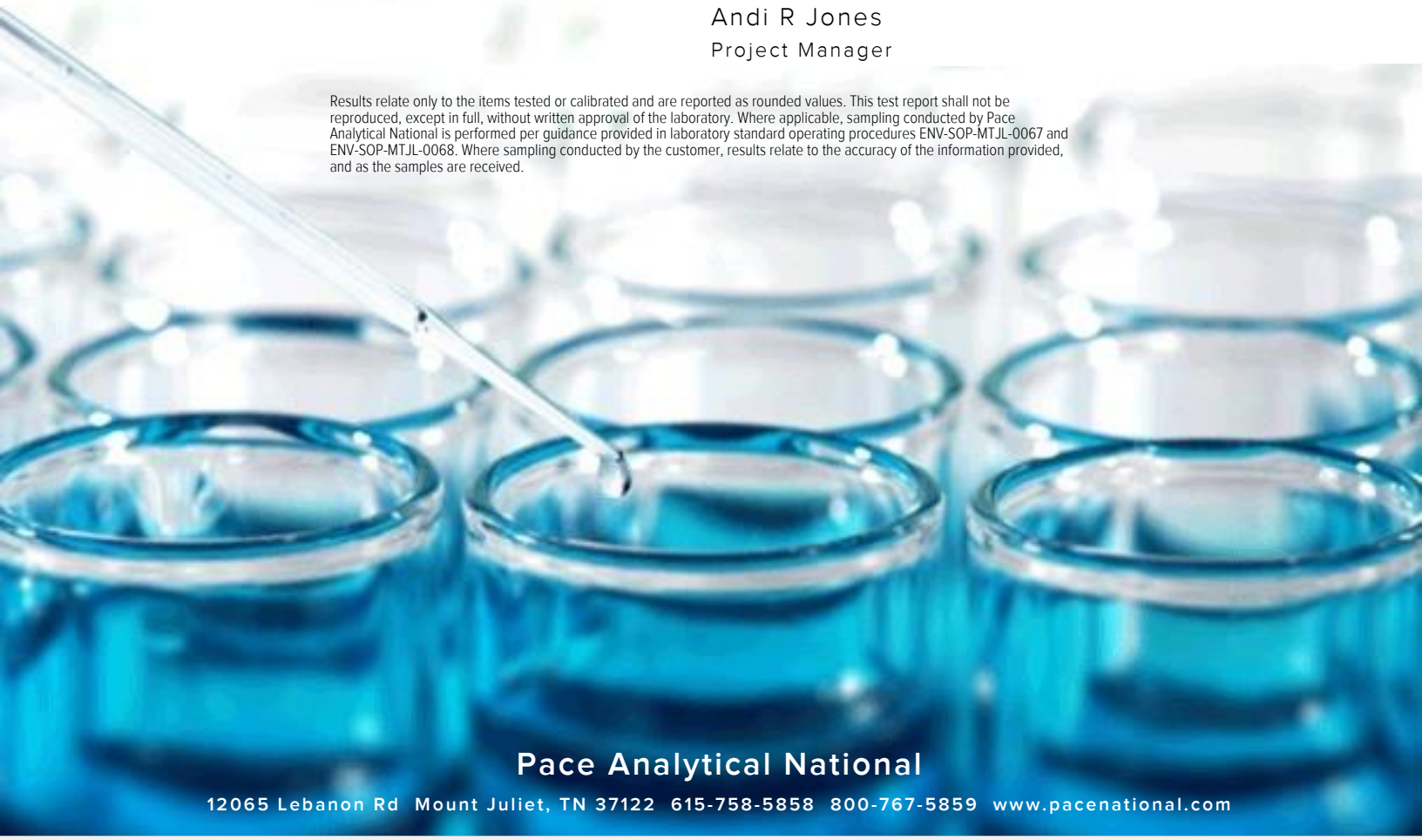
November 28, 2023

Acuity Environmental Solutions

Sample Delivery Group:	L1678132
Samples Received:	11/15/2023
Project Number:	1042-1005-008
Description:	La Porte, IN
Site:	FACTORY STREET
Report To:	Michael Grzegorek 7965 East 106th Street Suite 128 Fishers, IN 46038

Entire Report Reviewed By:

Andi R Jones
Project Manager



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

SAMPLE SUMMARY

SSIA-7 L1678132-01 Air

Collected by: Jaqueline Hamphress
Collected date/time: 11/14/23 13:52
Received date/time: 11/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2174181	1	11/20/23 02:49	11/20/23 02:49	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2177348	1	11/25/23 11:35	11/25/23 11:35	DBB	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Andi R Jones
Project Manager

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL	Result	Qualifier	Dilution	Batch
			ug/m3	ug/m3			
cis-1,2-Dichloroethene	156-59-2	96.90	0.793	ND		1	WG2174181
trans-1,2-Dichloroethene	156-60-5	96.90	0.793	1.89		1	WG2177348
Tetrachloroethylene	127-18-4	166	1.36	3.85		1	WG2174181
Trichloroethylene	79-01-6	131	1.07	215		1	WG2174181
Vinyl chloride	75-01-4	62.50	0.511	ND		1	WG2174181
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*95.3*		*60.0-140*	WG2174181
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*96.3*		*60.0-140*	WG2177348

Method Blank (MB)

(MB) R4003607-3 11/19/23 10:25

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
cis-1,2-Dichloroethene	U		0.0784	0.200
Tetrachloroethylene	U		0.0814	0.200
Trichloroethylene	U		0.0680	0.200
Vinyl chloride	U		0.0949	0.200
(S) 1,4-Bromofluorobenzene	*96.5*			*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4003607-1 11/19/23 09:07 • (LCSD) R4003607-2 11/19/23 09:47

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
cis-1,2-Dichloroethene	3.75	3.99	4.03	106	107	70.0-130			0.998	25
Tetrachloroethylene	3.75	3.96	4.02	106	107	70.0-130			1.50	25
Trichloroethylene	3.75	4.00	3.99	107	106	70.0-130			0.250	25
Vinyl chloride	3.75	3.86	3.99	103	106	70.0-130			3.31	25
(S) 1,4-Bromofluorobenzene				*97.5*	*96.0*	*60.0-140*				

Method Blank (MB)

(MB) R4004452-3 11/25/23 08:02

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
trans-1,2-Dichloroethene	U		0.0673	0.200
(S) 1,4-Bromofluorobenzene	*96.8*			*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4004452-1 11/25/23 07:04 • (LCSD) R4004452-2 11/25/23 07:33

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
trans-1,2-Dichloroethene	3.75	3.70	3.66	98.7	97.6	70.0-130			1.09	25
(S) 1,4-Bromofluorobenzene				*97.5*	*98.8*	*60.0-140*				

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Pace® Location Requested (City/State):

Air CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

D164

Scan QR code for instructions

L1078138

Company Name: **Acuity Environmental Solutions**	Contact/Report To: **Michael Grzegorek**
Street Address: **7965 East 106th Street**	Phone #: **206-914-8802**
	E-Mail: **jhumphress@acuityes.com;mgrzegorek@acuityes.com;ccombes@acuitves.com**
City, State Zip:	Cc E-Mail:
Customer Project #: **1042-1005-008**	Invoice to: Pat Cromwell
Project Name: **La Porte, IN**	Invoice E-Mail:
Site Collection Info/Facility ID (as applicable): **ACUITYFIN-10421005 FACTORY STREET**	Purchase Order # (if applicable): **1042-1005**
Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET	Quote #:
	State origin of sample(s): Indiana

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other_____

Regulatory Program (CAA, RCRA, etc.) as applicable:

Rush (Pre-approval required):
2 Day 3 day 5 day Other_____

Date Results Requested:

Permit # as applicable:

Units for Reporting: ug/m³ PPBV mg/m³ PPMV

* Matrix Codes (Insert in Matrix box below): Ambient (A), Indoor (I), Soil Vapor (SV), Other (O)

Customer Sample ID	Matrix *	Summa Canister ID	Flow Controller ID	Begin Collection Date	Begin Collection Time	End Collection Date	End Collection Time	Canister Pressure / Vacuum: Start Pressure / Vacuum (in Hg)	Canister Pressure / Vacuum: End Pressure / Vacuum (in Hg)	PUF / FILTER: Duration (minutes)	PUF / FILTER: Flow Rate m³/min or L/min	PUF / FILTER: Total Volume Sampled m³ or L	Analyses Requested: TO-15 Summa	Sample Comment
SSIA-7	SV	02464	01345	11/14	1347	11/14	1352	-29.0	-2.0				X	-01
													X	
													X	
													X	

Sample Receipt Checklist
COC Seal Present/Intact: Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Size: 1L 6L 1.4L Airs
Tage Color: G W P B
Tubing ___ Shunt ___

6727 1906 7070 T/P#: _____

OK

Lab Use Only
Proj. Manager: 4089 - Andi R Jones
AcctNum / Client ID: ACUITYFIN
Table #:
Profile / Template: T234664
Prelog / Bottle Ord. ID: P1034582

Customer Remarks / Special Conditions / Possible Hazards:
Report cVOCs=cis-1,2DCE,trans-1,2DCE,PCE,TCE,VC

Collected By:
Printed Name: Jacqueline Humphress
Signature:

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C): Corrected Temp. (°C):

Relinquished by/Company: (Signature) JAES	Date/Time: 11/14/23 1430	Received by/Company: (Signature) FedEX	Date/Time: 11/14/23 1430	Tracking Number:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: In- Person Courier FedEX UPS Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time: 11/15/23 0900	Page: 1 of: 1

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Indoor Air Analytical Lab Reports

ANALYTICAL REPORT

November 30, 2023

Acuity Environmental Solutions

Sample Delivery Group:	L1680436
Samples Received:	11/21/2023
Project Number:	1042-1005-008
Description:	La Porte, IN
Site:	FACTORY STREET
Report To:	Michael Grzegorek
	7965 East 106th Street
	Suite 128
	Fishers, IN 46038

Entire Report Reviewed By:

Andi R Jones
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

TABLE OF CONTENTS

SAMPLE SUMMARY

2110-BAS L1680436-01 Air

Collected by: Mike Grzegorek
Collected date/time: 11/14/23 15:30
Received date/time: 11/21/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2177368	1	11/25/23 12:27	11/25/23 12:27	SDS	Mt. Juliet, TN

2110-IA L1680436-02 Air

Collected by: Mike Grzegorek
Collected date/time: 11/14/23 15:32
Received date/time: 11/21/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2177368	1	11/25/23 13:09	11/25/23 13:09	SDS	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Andi R Jones
Project Manager

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL	Result	Qualifier	Dilution	Batch
			ug/m3	ug/m3			
cis-1,2-Dichloroethene	156-59-2	96.90	0.793	ND		1	WG2177368
trans-1,2-Dichloroethene	156-60-5	96.90	0.793	ND		1	WG2177368
Tetrachloroethylene	127-18-4	166	1.36	ND		1	WG2177368
Trichloroethylene	79-01-6	131	1.07	ND		1	WG2177368
Vinyl chloride	75-01-4	62.50	0.511	ND		1	WG2177368
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*105*		*60.0-140*	WG2177368

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL	Result	Qualifier	Dilution	Batch
			ug/m3	ug/m3			
cis-1,2-Dichloroethene	156-59-2	96.90	0.793	ND		1	WG2177368
trans-1,2-Dichloroethene	156-60-5	96.90	0.793	ND		1	WG2177368
Tetrachloroethylene	127-18-4	166	1.36	ND		1	WG2177368
Trichloroethylene	79-01-6	131	1.07	ND		1	WG2177368
Vinyl chloride	75-01-4	62.50	0.511	ND		1	WG2177368
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*107*		*60.0-140*	WG2177368

Method Blank (MB)

(MB) R4005731-3 11/25/23 08:32

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
Tetrachloroethylene	U		0.0814	0.200
Trichloroethylene	U		0.0680	0.200
Vinyl chloride	U		0.0949	0.200
(S) 1,4-Bromofluorobenzene	*102*			*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4005731-1 11/25/23 07:15 • (LCSD) R4005731-2 11/25/23 07:54

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
cis-1,2-Dichloroethene	3.75	4.10	4.18	109	111	70.0-130			1.93	25
trans-1,2-Dichloroethene	3.75	4.10	4.16	109	111	70.0-130			1.45	25
Tetrachloroethylene	3.75	3.66	3.68	97.6	98.1	70.0-130			0.545	25
Trichloroethylene	3.75	3.83	3.84	102	102	70.0-130			0.261	25
Vinyl chloride	3.75	4.01	3.87	107	103	70.0-130			3.55	25
(S) 1,4-Bromofluorobenzene				*103*	*103*	*60.0-140*				

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Pace® Location Requested (City/State):

Air CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR code for instructions

JL07

DK 11/6/23

Company Name: **Acuity Environmental Solutions**	Contact/Report To: **Michael Grzegorek**
Street Address: **7965 East 106th Street**	Phone #: **206-914-8802**
	E-Mail: **jhumphress@acuityes.com;mgrzegorek@acuityes.com;ccombes@acuityes.com**
City, State Zip:	Cc E-Mail:
Customer Project #: **1042-1005-008**	Invoice to:
Project Name: **La Porte, IN**	Invoice E-Mail:
Site Collection Info/Facility ID (as applicable): **ACUITYFIN-10421005 FACTORY STREET**	Purchase Order # (if applicable): **1042-1005**
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET	Quote #:
	State origin of sample(s):

Data Deliverables:

[ ] Level II [ ] Level III [ ] Level IV

[ ] EQUIS

[ ] Other_____

Regulatory Program (CAA, RCRA, etc.) as applicable:

Rush (Pre-approval required): 2 Day 3 day 5 day Other_____

Date Results Requested:

Permit # as applicable:

Units for Reporting: ug/m³ PPBV mg/m³ PPMV

Proj. Manager: **4089 - Andi R Jones**

AcctNum / Client ID: **ACUITYFIN**

Table #:

Profile / Template: **T234664**

Prelog / Bottle Ord. ID: **P1034582**

Lab Use Only

* Matrix Codes (Insert in Matrix box below): Ambient (A), Indoor (I), Soil Vapor (SV), Other (O)

Customer Sample ID	Matrix *	Summa Canister ID	Flow Controller ID	Begin Collection Date	Begin Collection Time	End Collection Date	End Collection Time	Field Information: Canister Pressure / Vacuum — Start Pressure / Vacuum (in Hg)	Canister Pressure / Vacuum — End Pressure / Vacuum (in Hg)	PUF / FILTER — Duration (minutes)	PUF / FILTER — Flow Rate m³/min or L/min	PUF / FILTER — Total Volume Sampled m³ or L	Analyses Requested: TO-15 Summa	Sample Comment
2110-BAS	I	13836	013181	11/2/23	1605	11/4/23	1530	-29.0	-10.5	24hr	4.8 mL/min	6L	X	-01
2110-IA	I	23411	022738	11/3/23	1607	11/4/23	1532	-29.5	-16.0	24hr	4.16 mL/min	6L	X	-02

Sample Receipt Checklist

COC Seal Present/Intact: Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N

Airs 2 6L 1.4L
Size: 1L
Tage Color: G W P B
Tubing Shunt

T/P#:

Customer Remarks / Special Conditions / Possible Hazards:

Report cVOCs=cis-1,2DCE,trans-1,2DCE,PCE,TCE,VC

Collected By:

Printed Name: Mike Grzegorek

Signature:

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C): Corrected Temp. (°C):

Relinquished by/Company: (Signature)	Date/Time: 11/6/23	Received by/Company: (Signature) FedEx	Date/Time: 11/6/23
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time: 11/21/23 0900

Tracking Number:

Delivered by: In- Person Courier FedEX UPS Other

Page: ____ of: ____

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ANALYTICAL REPORT

November 30, 2023

Acuity Environmental Solutions

Sample Delivery Group:	L1680437
Samples Received:	11/21/2023
Project Number:	1042-1005
Description:	

Report To:

Michael Grzegorek
7965 East 106th Street
Suite 128
Fishers, IN 46038

Entire Report Reviewed By:

Andi R Jones
Project Manager

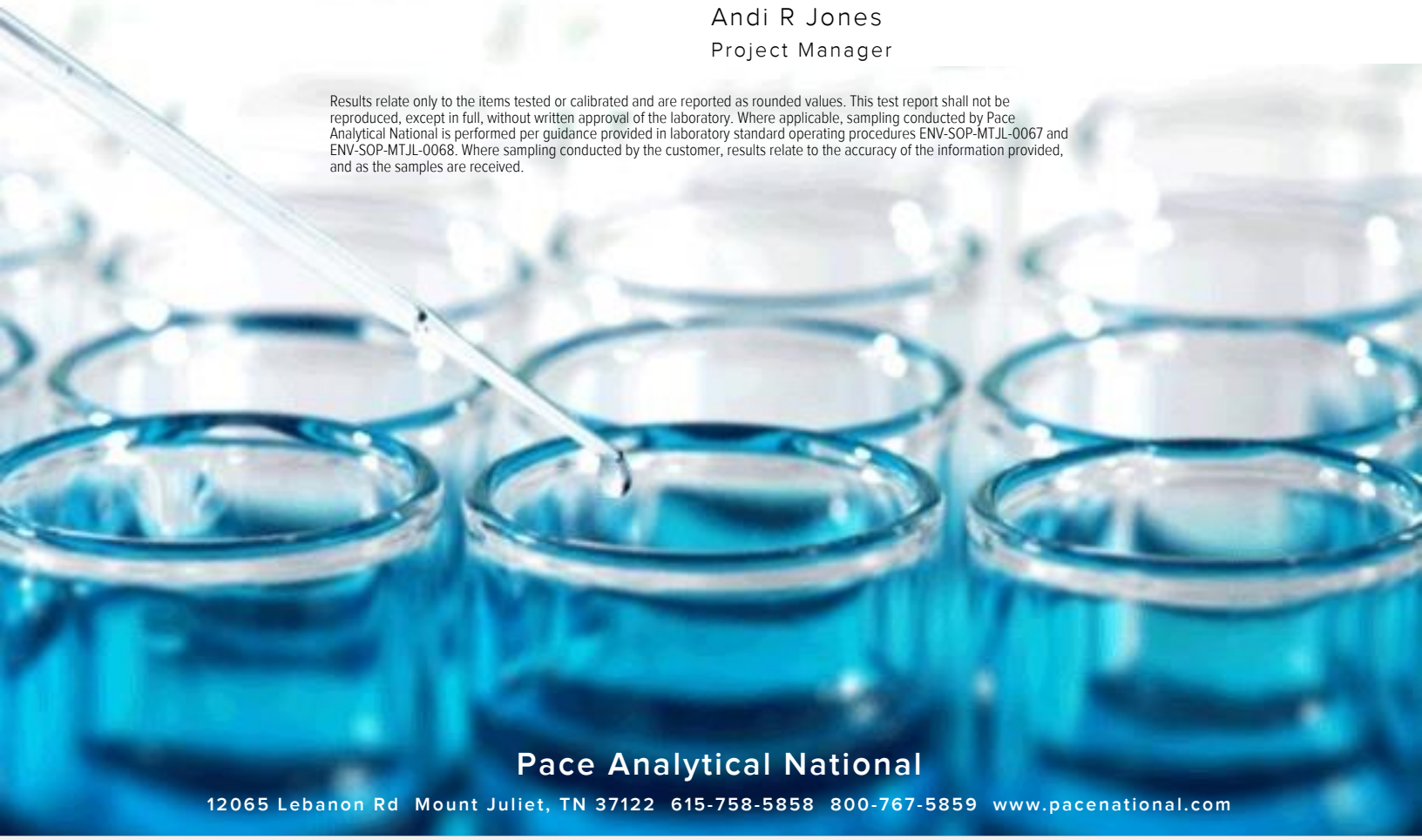

TABLE OF CONTENTS

SAMPLE SUMMARY

205P-BAS L1680437-01 Air

Collected by	Collected date/time	Received date/time
	11/16/23 08:48	11/21/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2177368	1	11/25/23 13:47	11/25/23 13:47	SDS	Mt. Juliet, TN

205P-IA L1680437-02 Air

Collected by	Collected date/time	Received date/time
	11/16/23 08:55	11/21/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2177368	1	11/25/23 14:25	11/25/23 14:25	SDS	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Andi R Jones
Project Manager

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL	Result	Qualifier	Dilution	Batch
			ug/m3	ug/m3			
cis-1,2-Dichloroethene	156-59-2	96.90	0.793	ND		1	WG2177368
trans-1,2-Dichloroethene	156-60-5	96.90	0.793	ND		1	WG2177368
Tetrachloroethylene	127-18-4	166	1.36	ND		1	WG2177368
Trichloroethylene	79-01-6	131	1.07	1.82		1	WG2177368
Vinyl chloride	75-01-4	62.50	0.511	ND		1	WG2177368
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*103*		*60.0-140*	WG2177368

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL	Result	Qualifier	Dilution	Batch
			ug/m3	ug/m3			
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Method Blank (MB)

(MB) R4005731-3 11/25/23 08:32

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
Tetrachloroethylene	U		0.0814	0.200
Trichloroethylene	U		0.0680	0.200
Vinyl chloride	U		0.0949	0.200
(S) 1,4-Bromofluorobenzene	*102*			*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4005731-1 11/25/23 07:15 • (LCSD) R4005731-2 11/25/23 07:54

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
cis-1,2-Dichloroethene	3.75	4.10	4.18	109	111	70.0-130			1.93	25
trans-1,2-Dichloroethene	3.75	4.10	4.16	109	111	70.0-130			1.45	25
Tetrachloroethylene	3.75	3.66	3.68	97.6	98.1	70.0-130			0.545	25
Trichloroethylene	3.75	3.83	3.84	102	102	70.0-130			0.261	25
Vinyl chloride	3.75	4.01	3.87	107	103	70.0-130			3.55	25
(S) 1,4-Bromofluorobenzene				*103*	*103*	*60.0-140*				

GLOSSARY OF TERMS

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Qualifier | Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Pace® Location Requested (City/State):

Air CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR code for instructions

J106

Company Name: **Acuity Environmental Solutions**	Contact/Report To: **Michael Grzegorek**
Street Address: **7965 East 106th Street**	Phone #: **206-914-8802**
	E-Mail: **jhumphress@acuityes.com;mgrzegorek@acuityes.com;ccombes@acuityes.com**
City, State Zip:	Cc E-Mail:
Customer Project #: **1042-1005**	Invoice to:
Project Name:	Invoice E-Mail:
Site Collection Info/Facility ID (as applicable): **ACUITYFIN-10421005**	Purchase Order # (if applicable): **1042-1005**
Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET	Quote #:
	State origin of sample(s):

Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other

Regulatory Program (CAA, RCRA, etc.) as applicable:

Rush (Pre-approval required): 2 Day 3 day 5 day Other

Permit # as applicable:

Date Results Requested:

Units for Reporting: ug/m³ PPBV mg/m³ PPMV

11/15/23 AE

Proj. Manager: **4089 - Andi R Jones**

AcctNum / Client ID: **ACUITYFIN**

Table #:

Profile / Template: **T241937**

Prelog / Bottle Ord. ID: **P1037273**

Lab Use Only

* Matrix Codes (Insert in Matrix box below): Ambient (A), Indoor (I), Soil Vapor (SV), Other (O)

Customer Sample ID	Matrix *	Summa Canister ID	Flow Controller ID	Begin Collection Date	Begin Collection Time	End Collection Date	End Collection Time	Field Information: Canister Pressure / Vacuum Start Pressure / Vacuum (in Hg)	Canister Pressure / Vacuum End Pressure / Vacuum (in Hg)	PUF / FILTER Duration (minutes)	PUF / FILTER Flow Rate m³/min or L/min	PUF / FILTER Total Volume Sampled m³ or L	Analyses Requested: TO-15 Summa	Sample Comment
205P-BAS	I	024214	015383	11/15	0913	11/16	0848	-27	0				X	-01
205P-IA	I	5613	022557	11/15	0916	11/16	0855	-27.5	0				X	-02

Sample Receipt Checklist

COC Seal Present/Intact: Y N — Airs
COC Signed/Accurate: Y N — Size: 1L 2 6L 1.4L
Bottles arrive intact: Y N — Tage Color: G W P B
Correct bottles used: Y N — Tubing — Shunt

T/P#:

Customer Remarks / Special Conditions / Possible Hazards:

Report cVOCs=cis-1,2DCE,trans-1,2DCE,PCE,TCE,VC

Collected By:

Printed Name: Kailey Gray

Signature:

Additional Instructions from Pace®:

Relinquished by/Company: (Signature)	Date/Time: 11/16/23 1545	Received by/Company: (Signature) Acuity ES	11/16/23 1545	# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C):	Corrected Temp. (°C):
Relinquished by/Company: (Signature) Acuity ES	Date/Time: 11/16/23	Received by/Company: (Signature) FedEX		Date/Time:	Tracking Number:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)		Date/Time: 11/16/23	Delivered by: In- Person Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)		Date/Time:	FedEX UPS Other
				Date/Time: 11/21/23 0900	Page: 1 of: 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

SVE Effluent Analytical Lab Report

ANALYTICAL REPORT

November 21, 2023

Acuity Environmental Solutions

Sample Delivery Group:	L1679531
Samples Received:	11/18/2023
Project Number:	1042-1005
Description:	Factory Street

Report To: Michael Grzegorek
7965 East 106th Street
Suite 128
Fishers, IN 46038

Entire Report Reviewed By:

Andi R Jones
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

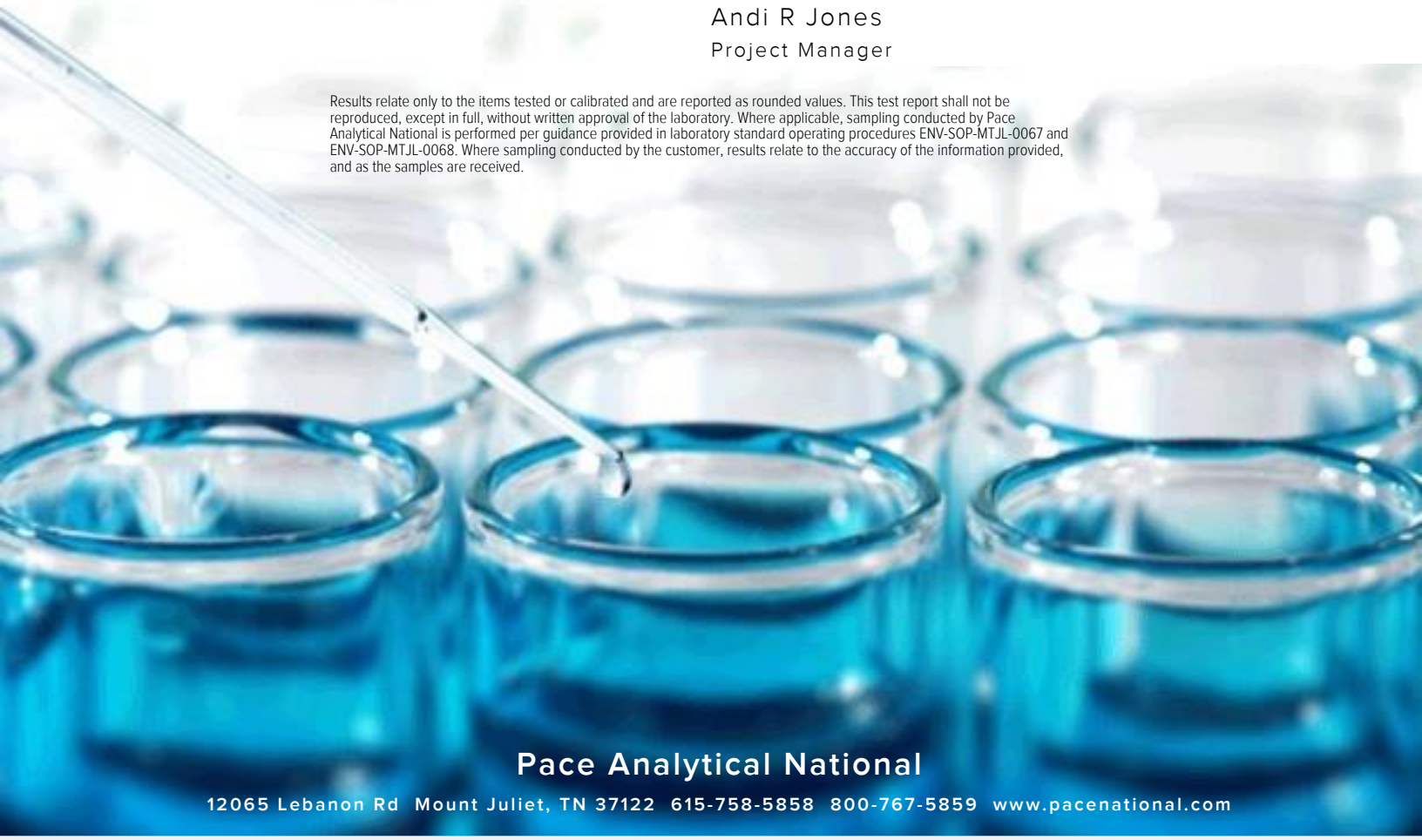


TABLE OF CONTENTS

SAMPLE SUMMARY

EFF-1 L1679531-01 Air

Collected by	Collected date/time	Received date/time
Kailey Gray	11/17/23 07:45	11/18/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2174166	1	11/20/23 00:12	11/20/23 00:12	MBF	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2174854	200	11/20/23 22:23	11/20/23 22:23	MBF	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Andi R Jones
Project Manager

Sample Delivery Group (SDG) Narrative

Sample received in tedlar bag.

Lab Sample ID	Project Sample ID	Method
L1679531-01	EFF-1	TO-15

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL	Result	Qualifier	Dilution	Batch
			ug/m3	ug/m3			
cis-1,2-Dichloroethene	156-59-2	96.90	0.793	6.82		1	WG2174166
trans-1,2-Dichloroethene	156-60-5	96.90	0.793	4.99		1	WG2174166
Tetrachloroethylene	127-18-4	166	1.36	54.5		1	WG2174166
Trichloroethylene	79-01-6	131	214	36500		200	WG2174854
Vinyl chloride	75-01-4	62.50	0.511	ND		1	WG2174166
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*97.9*		*60.0-140*	WG2174166
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*105*		*60.0-140*	WG2174854

Method Blank (MB)

(MB) R4002376-2 11/19/23 10:52

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
Tetrachloroethylene	U		0.0814	0.200
Vinyl chloride	U		0.0949	0.200
(S) 1,4-Bromofluorobenzene	*95.6*			*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4002376-1 11/19/23 10:13 • (LCSD) R4002376-3 11/19/23 11:32

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
cis-1,2-Dichloroethene	3.75	3.01	3.10	80.3	82.7	70.0-130			2.95	25
trans-1,2-Dichloroethene	3.75	3.01	3.09	80.3	82.4	70.0-130			2.62	25
Tetrachloroethylene	3.75	3.10	3.18	82.7	84.8	70.0-130			2.55	25
Vinyl chloride	3.75	3.41	3.53	90.9	94.1	70.0-130			3.46	25
(S) 1,4-Bromofluorobenzene				*97.9*	*96.9*	*60.0-140*				

Method Blank (MB)

(MB) R4002608-3 11/20/23 10:41

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Trichloroethylene	U		0.0680	0.200
(S) 1,4-Bromofluorobenzene	*107*			*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4002608-1 11/20/23 09:20 • (LCSD) R4002608-2 11/20/23 10:02

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Trichloroethylene	3.75	4.34	4.21	116	112	70.0-130			3.04	25
(S) 1,4-Bromofluorobenzene				*104*	*106*	*60.0-140*				

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier | Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Pace Analytical®
www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

J151

45512

Page: 1 of 1

Section A Required Client Information:

Company: Acuity Environmental Solutions
Address: 7965 E 106th St, Suite 128
Fishers, IN 46038
Email To: nielsen@acuityES.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: nielsen@acuityes.com
Copy To: mgregorek@acuityes.com
jhumphress@acuityes.com
Purchase Order No.:
Project Name: Factory Street
Project Number: 1042-1005

Section C Invoice Information:

Attention: Pat Cromwell
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: IN

Reporting Units: ug/m³ mg/m³ PPBV PPMV Other

Report Level: II. III. IV. Other

Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

Method: PM10 / 3C - Fixed Gas (%) / TO-3 BTEX / TO-3M (Methane) / TO-14 / TO-15 Full List VOCs / TO-15 Short List BTEX / TO-15 Short List Chlorinated / TO-15 Short List (other)

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	TO-15 Short List (other)	Pace Lab ID
1	EFF-1	TB		11/17/23	0745							X	41779531-01
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													

Sample Receipt Checklist

		If Applicable	
COC Seal Present/Intact:	Y N		
COC Signed/Accurate:	Y N	VOA Zero Headspace:	Y N
Bottles arrive intact:	Y N	Pres. Correct/Check:	Y N
Correct bottles used:	Y N		
Sufficient volume sent:	Y N		
RA Screen <0.5 mR/hr:	Y N		

AMB
7741 4579 3646

Comments: Only analyze one bag - Sent extra just in case

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature] /AcuityES	11/17/23	0900	FedEx	11/17/23	0900
			[signature]	11/18/23	0900

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

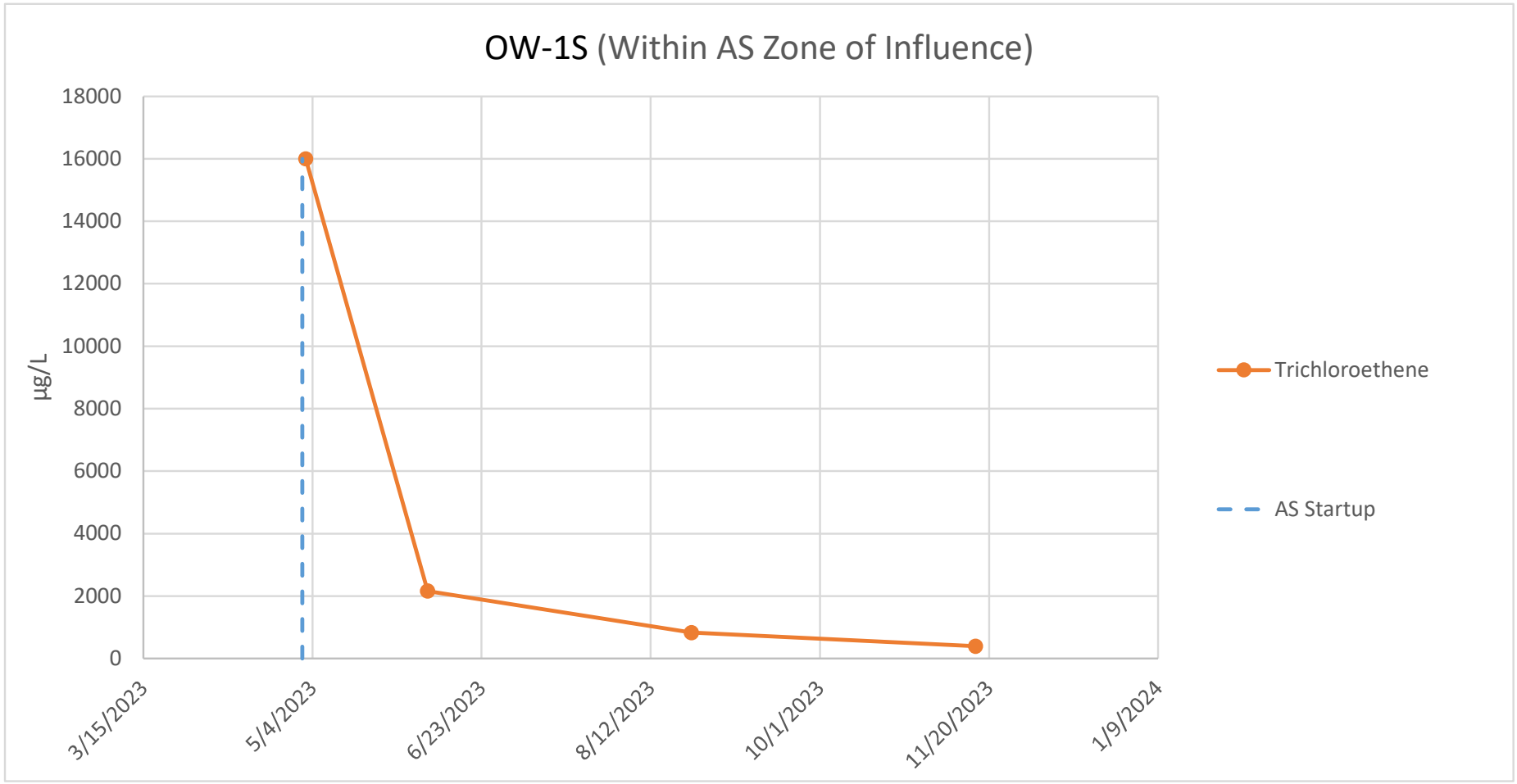
PRINT Name of SAMPLER: Kailey Gray
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM / DD / YY): 11/17/23

ORIGINAL

Appendix E

Concentration Trend Graphs

Appendix E
Concentration Trend Graphs
Former Whirlpool Facility
VRP #6180802



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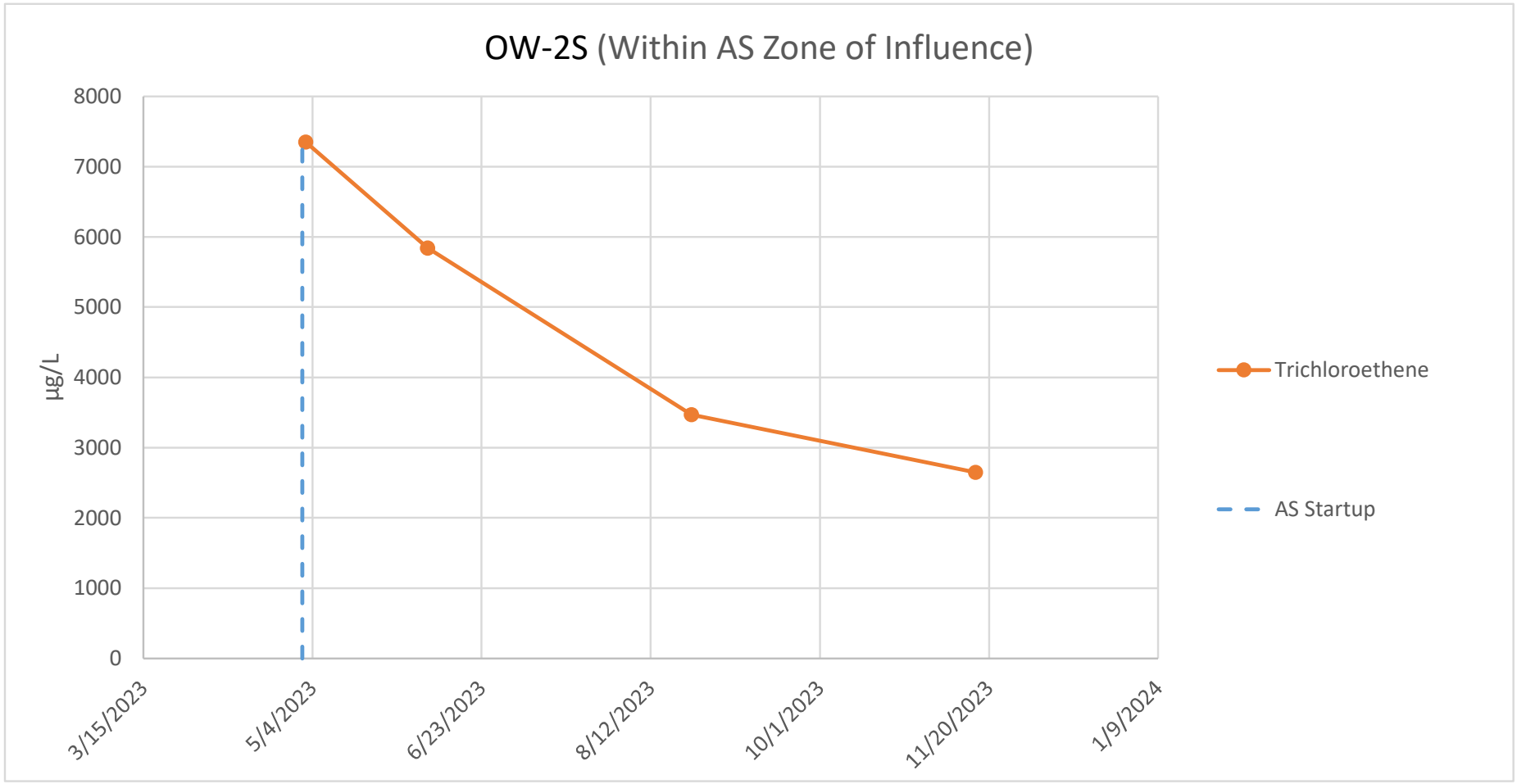
Former Whirlpool Facility
VRP #6180802



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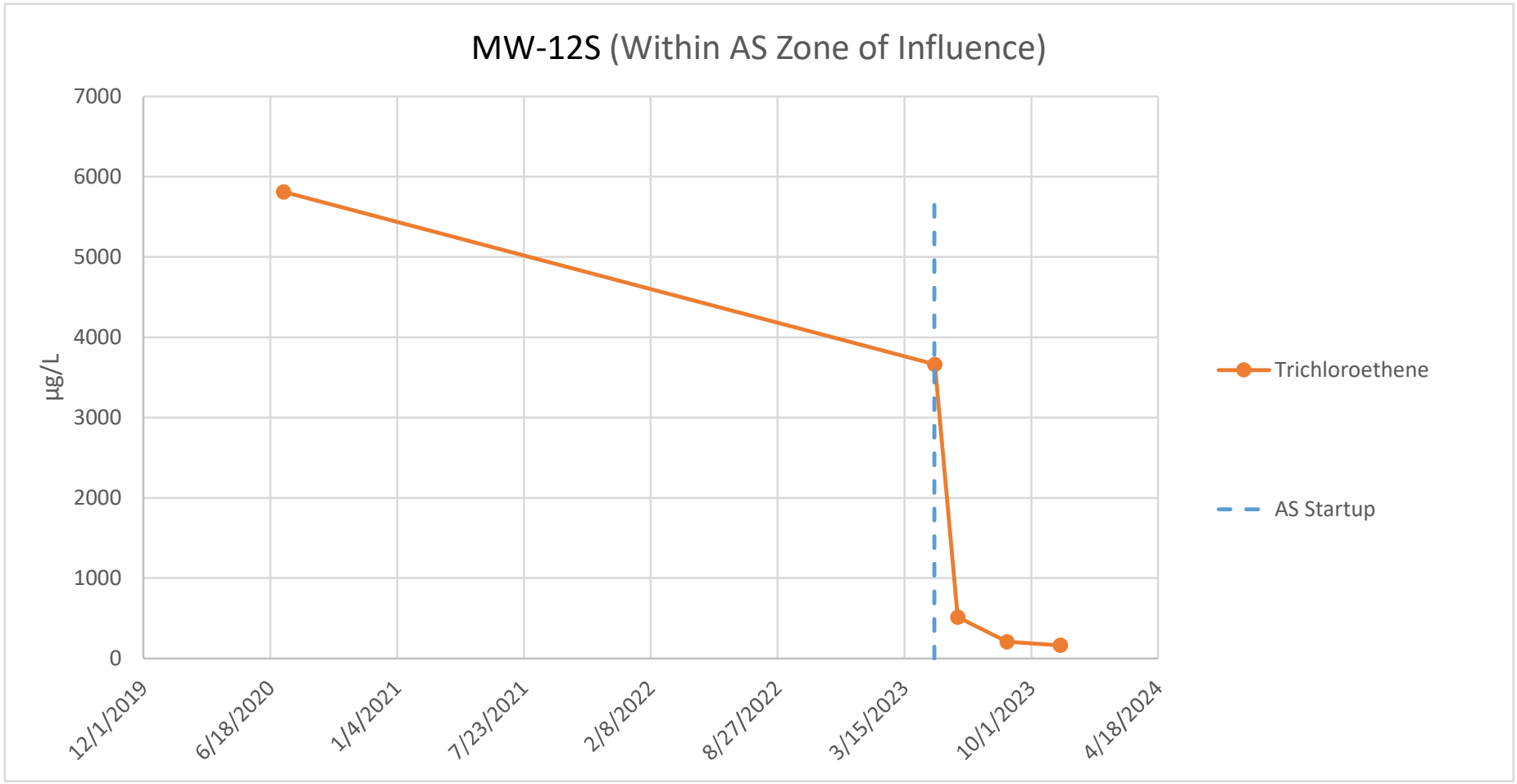
VRP #6180802



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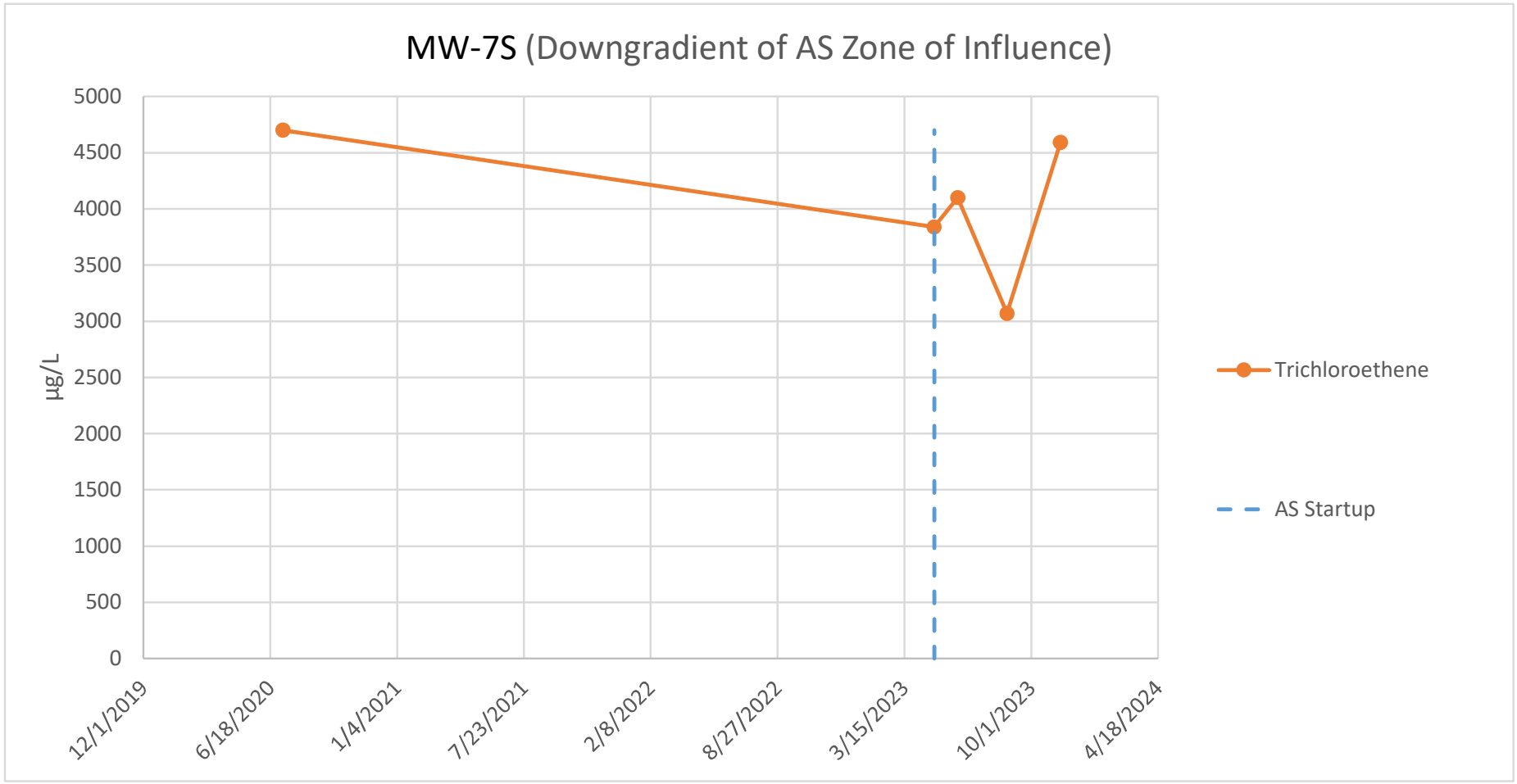

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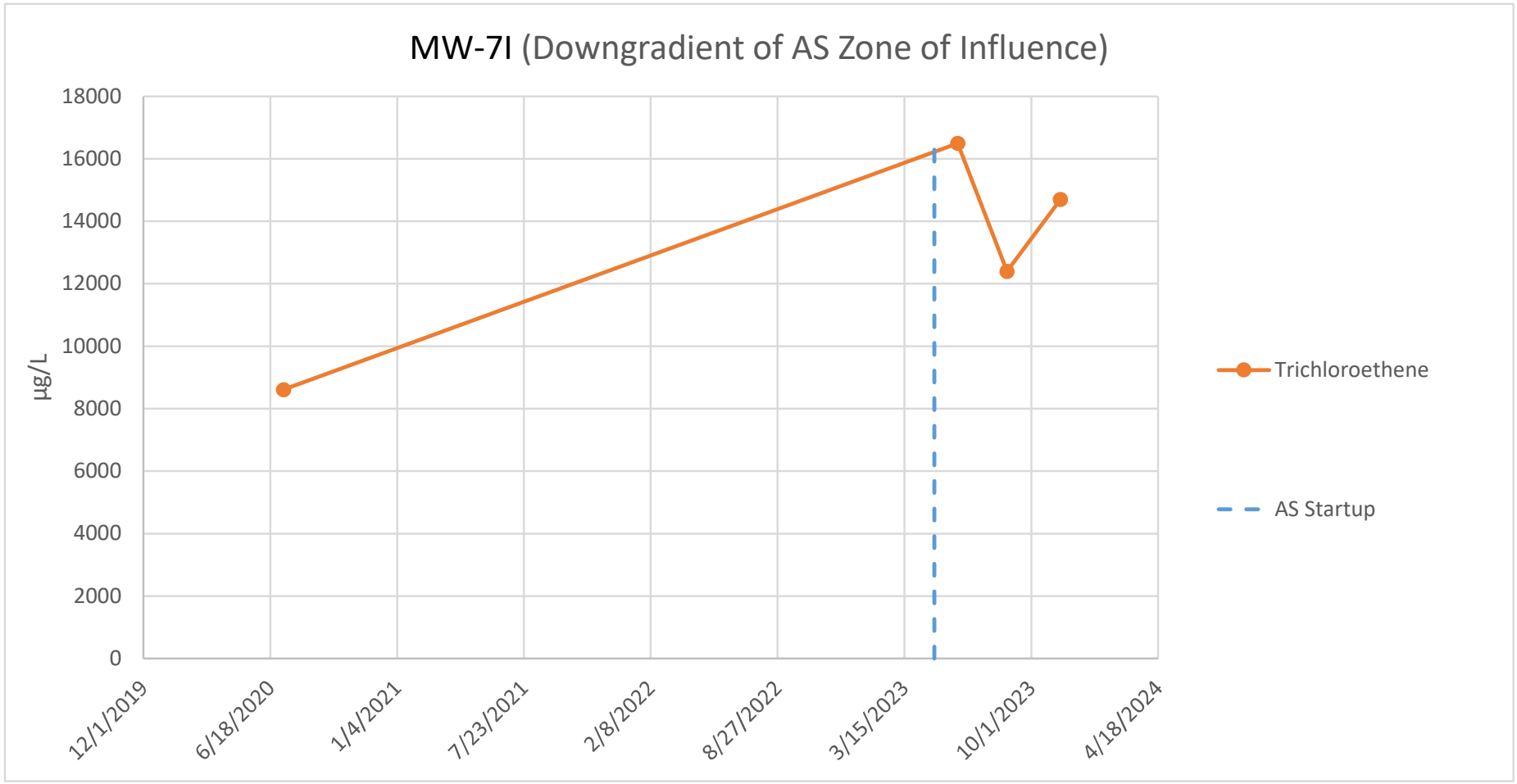

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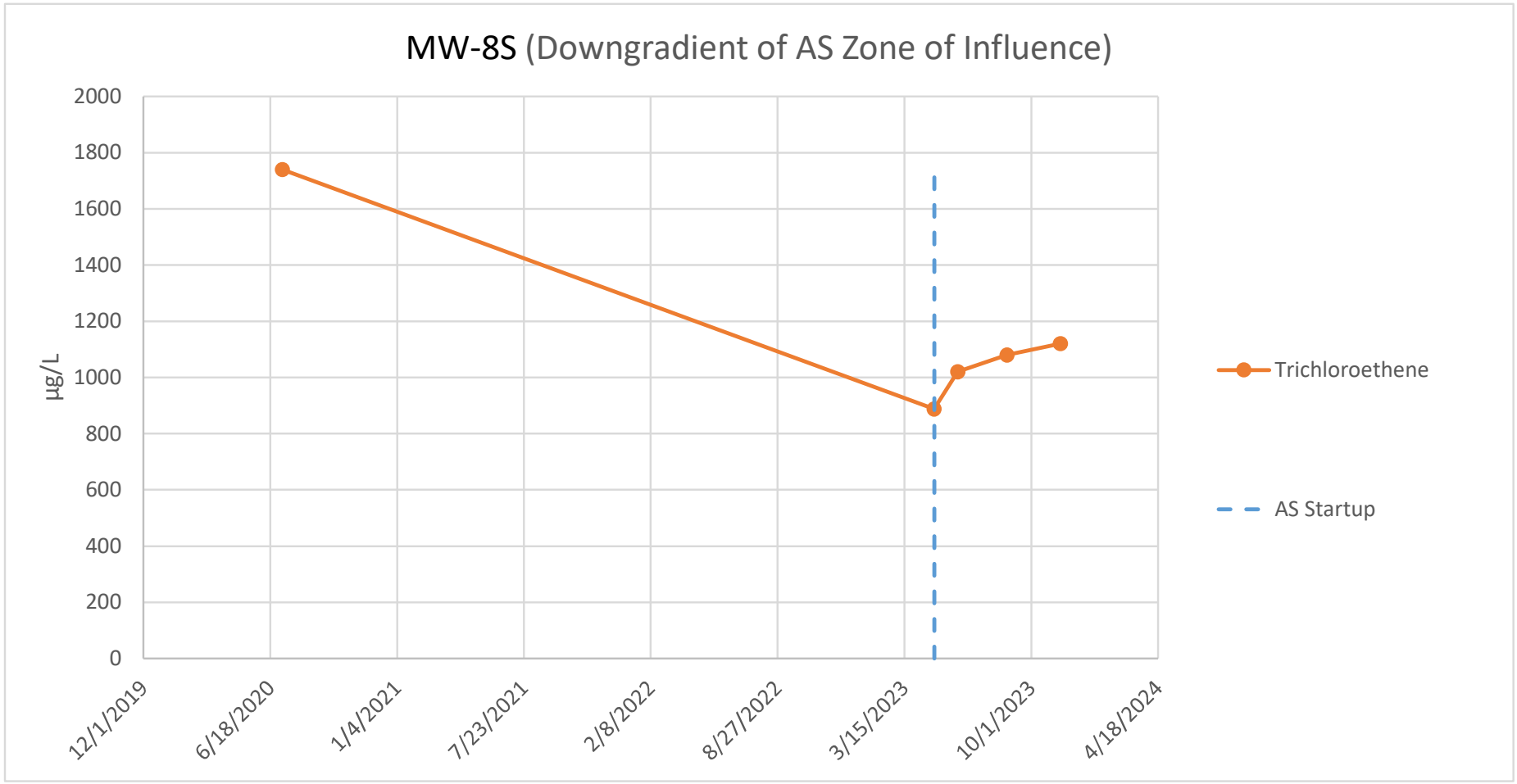

Appendix F

AS/SVE System Operation & Maintenance Log

AS/SVE O&M Log
Former Whirlpool Facility
229 Factory Street
La Porte, IN 46350

Personnel	CC & JH	JH & MG
Temperature Inside Equipment Room (°F)	90	60
Date:	8/23/2023	11/16/2023
Soil Vapor Extraction (SVE)		
System Running Upon Arrival?	**YES**	**YES**
Does the knockout tank contain water? If so, list how much in Notes.	**NO**	**NO**
Knockout tank exhibit signs of leaks?	**NO**	**NO**
Does the poly holding tank contain water?	**NO**	**NO**
Was the poly tank emptied?	**NO**	**NO**
Does the poly holding tank exhibit signs of leaks?	**NO**	**NO**
Was the in-line filter cleaned or replaced?	**CLEANED**	**REPLACED**
Was the intake filter cleaned or replaced?	**CLEANED**	**CLEANED**
Was the mist elimintor cleaned or replaced?	**NO**	**NO**
Are the filter casings secure?	**YES**	**YES**
Was the bleed filter replaced? *Vacuum dilution, ball valve upstream near blower*		**NO**
Does the transfer pump exhibit signs of leaks?	**NO**	**NO**
Is the effluent air valve closed?	**YES**	**YES**
Check KO Tank for debris; vacuum if needed (Annually)		
V-1 vacuum reading ("H_2O) *Near top of KO tank*	**-38**	**-23**
V-2 vacuum reading ("Hg) *Before inline filter*	**3**	**1.5**
V-3 vacuum reading ("Hg) *After inline filter*	**3.5**	**2.5**
HMI Reading - Vacuum ("Hg)	**4.7**	**2.8**
HMI Reading - Flow Rate (scfm)	**500**	**500**
Discharge Temperature (°F)	**145**	**114**
Magnehelic/capsuhelic pressure differential (4" pipe) ("H_2O)	**4.5**	**4.8**
Calculated flow (scfm)	*463.4*	*491.4*
SVE Effluent PID Reading		**10.2**
SVE Effluent Sample	**8/22/2023 13:40**	**11/17/2023 7:45**
Time (Central) at SVE Run-time Reading	**14:13**	**9:30**
SVE System Run-time (hrs)	**38881**	**40915.7**
SVE Run-time percentage since prior reading	*99.41%*	*99.97%*
SVE-1 PID		**13.4**
SVE-2 PID		**16.4**
SVE-3 PID		**33.6**
SVE-4 PID	**Closed**	**Closed**
SVE-5 PID		**10.3**
SVE-6 PID		**11.2**
SVE-7 PID		**5.9**
Notes	Dedicated pressure differential gauge installed for SVE effluent in-line flow sensor.	
Air Sparge System (AS): Compressor (C-DLR 100)		
System running upon arrival?	**YES**	**YES**
Was the intake filter cleaned or replaced?	**CLEANED**	**CLEANED**
Was the oil level acceptable?	**YES**	**YES**
Was the oil changed? (semi-annually)	**YES**	**NO**
Terminal box/cables free of leaks/holes?	**YES**	**YES**
Were all pipes and screws secure?	**YES**	**YES**
Replaced safety valve? (Annually)	NO	NO
Discharge Temperature (°F)	**250**	**260**
Pressure Reading at AS-1 (psi)	**12.5**	**9.5**
Pressure Reading at Manifold (psi)	**18**	**17.5**
HMI Reading - Pressure (psi)	**18**	**17.8**
HMI Reading - Temperature (°F)	**107**	**90**
HMI Reading - Flow Rate (cfm)	**153**	**410**
Time (Central) at AS Run-time Reading	**14:13**	**9:30**
AS System Run-time (hrs)	**5028.2**	**7061.5**
AS Run-time percentage since prior reading	*99.16%*	*99.90%*
Was the coupling in good condition? (Annually)		
Were the motor vents and cooling ribs cleaned?	**YES**	**YES**
Notes		Intake filter will need to be replaced next quarter
Forced Air Heat Exchanger (Quarterly)		
Were the coil fins cleaned?	YES	YES
Were the fan blades tight and clean?	YES	YES