

# Remedial Action Work Plan

# Phase II: Surface Soil and Groundwater Remedial Action

# Former Bernzomatic Facility Medina, NY BCP Site No. C837018

August 2023

Prepared for: Newell Operating Company 3 Glenlake Parkway Atlanta, GA 30328

### NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 8 6274 East Avon-Lima Road, Avon, NY 14414-9516 P: (585) 226-5353 I F: (585) 226-8139 www.dec.ny.gov

July 24, 2023

Kristin Jones Newell Rubbermaid, Inc. 3 Glenlake Park Atlanta, Georgia, 30328

#### Re: Revised Action Work Plan Phase II: Surface Soil and Groundwater Remedial Action Former Bernzomatic Facility, C837018 Village of Medina, New York, Orleans County

Dear Ms. Jones,

The New York State Department of Environmental Conservation (NYSDEC) and New York State Department of Health (NYSDOH), collectively referred to as the Departments, have completed their review of the revised Remedial Action Work Plan Phase II: Surface Soil and Groundwater Remedial Action (RAWP) and the appended Pre-Design Investigation Report Phase II: Subsurface Soil and Groundwater (PDI Phase II) dated July 2023 (electronically received July 6, 2023) prepared by the URS Corporation, an AECOM company.

In accordance with Title 6 of the New York Codes, Rules and Regulations (NYCRR) part 375-1.6, the Departments **approve as modified** below:

- Section 5.2.10 Survey Completed excavations will be surveyed by a URS New York State-licensed land surveyor. The horizontal coordinate system will be New York State Plane – West (NAD83) with vertical information which will use North America Vertical Datum (NAVD88). Following the survey, the following deliverables will be disseminated to the Department of Environmental Conservation:
  - A PDF file of the survey map(s) and
  - ii. CAD File(s) (.DWG) OR ArcGIS Pro Shape File(s) (.SHP) of the survey map(s).

When the Department issues a response of **approved as modified** for a given workplan, Title 6 of NYCRR part 375-1.6, requires you to choose one of the following responses and notify the Departments in writing within **15 days of the date of this letter**:

- Elect in writing your acceptance of the Department's approval "as modified",
- Invoke a Dispute Resolution in accordance with part 375-1.5(b)(2) or,
- Terminate the Brownfield Cleanup Agreement in accordance with part 375-3.5.

If accepting the Department's revisions, submit a final electronic document which is stamped/signed by professional engineer in the State of New York and includes this letter along with your written acceptance letter as cover pages. Please also include a brief field schedule for the pre-implementation Design Verification Testing study.

Within 10 days from notifying the Department of acceptance, a physical copy of the final document should be placed in the document repository. Pease contact me at <u>Joshuah.Klier@dec.ny.gov</u> or at (585) 226-5357 to discuss any questions or concerns regarding these comments.



Sincerely,

<u>oshuah Q. Kli</u>sr

oshuah J. Klier, G.I.T. Assistant Geologist

ec: Kyle Brent, B360 Holdings LLC James Kaczor, URS, an AECOM Company Thomas Walsh, Barclay Damon, LLP Jeffrey Stravino, Hodgson Russ, LLP David Pratt, NYSDEC Adam Morgan, NYSDEC Lisa Schwartz, NYSDEC Angela Martin, NYSDOH Justin Deming, NYSDOH

## Kaczor, Jim

From:	Kaczor, Jim
Sent:	Monday, August 7, 2023 2:24 PM
То:	Klier, Joshuah J (DEC)
Cc:	Jones, Kristin; kbrent@b360holdings.com; Walsh, Thomas F.; Pratt, David (DEC);
	Morgan, Adam T (DEC); Schwartz, Lisa (DEC); Martin, Angela L (HEALTH); Deming,
	Justin H (HEALTH); Stravino, Jeffrey; Zebrowski, Adam
Subject:	RE: Former Bernzomatic Facility - C837018 - Remedial Action Work Plan/PDI Phase II
	Report - Revised Submittal - accepted as modified
Attachments:	Letter.BCP.C837018.2023-07-24.revisedRAWP_and_PDI_Comm.pdf

Good afternoon Josh,

On behalf of Newell Operating Company, as requested in the attached correspondence, the purpose of this message is to inform you in writing that Newell accepts the Departments approval of the Remedial Action Work Plan (RAWP) as modified.

The final modified version of the RAWP will be signed/stamped and submitted to the Departments along with a copy of this correspondence and the attached letter as cover pages. The submittal will also include a brief field schedule for the pre-implementation Design Verification Testing study.

Within 10 days of this correspondence, a physical copy of the final modified version of the RAWP will also be placed at the document repository in Medina, NY.

We appreciate your time in support of this site. Please feel free to contact me if you have any questions.

Have a safe day.

Best regards, Jim

James Kaczor, PG (NY, IN)

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From: Klier, Joshuah J (DEC) <Joshuah.Klier@dec.ny.gov> Sent: Monday, July 24, 2023 3:49 PM To: Kaczor, Jim <James.Kaczor@aecom.com> Cc: Jones, Kristin <Kristin.Jones@newellco.com>; kbrent@b360holdings.com; Walsh, Thomas F. <TWalsh@barclaydamon.com>; Pratt, David (DEC) <david.pratt@dec.ny.gov>; Morgan, Adam T (DEC) <Adam.Morgan@dec.ny.gov>; Schwartz, Lisa (DEC) <lisa.schwartz@dec.ny.gov>; Martin, Angela L (HEALTH) <Angela.Martin@health.ny.gov>; Deming, Justin H (HEALTH) <justin.deming@health.ny.gov>; Stravino, Jeffrey <JStravin@hodgsonruss.com>; Zebrowski, Adam <AZebrowski@LaBellaPC.com> Subject: RE: Former Berzomatic Facility - C837018 - Remedial Action Work Plan/PDI Phase II Report - Revised Submittal Importance: High

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Attention all,

This email copies you on official correspondence from the New York State Department of Environmental Conservation in consultation with the New York State Department of Health. To reduce paper waste, a hard copy will not be sent by postal mail.

If you have any questions or concerns, please contact me by email or at 585-226-5357.

Cheers, Josh.

Joshuah J. Klier, G.I.T., M.S. (Josh) (he/him/his) Assistant Geologist | Project Manager – Division of Environmental Remediation – Region 8 New York State Department of Environmental Conservation 6274 East Avon-Lima Road, Avon, NY, 14414 P: (585) 226-5357 | F: (585) 226-8139 | joshuah.klier@dec.ny.gov





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# Remedial Action Work Plan Phase II: Surface Soil and Groundwater Remedial Action

# Former Bernzomatic Facility Medina, NY BCP Site No. C837018

## CERTIFICATION

I, <u>Carsten H. Floess</u>, <u>PE</u>, certify that I am currently a NYS registered professional engineer as defined in 6 NYCRR Part 375 and that this Predesign Investigation Work Plan was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

All. August 10, 2023 £ Name. Date POFESSIO

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#### ATTACHMENTS

Attachment 1	NYSDEC Decision Document (February 2021)
Attachment 2	PDI Phase II Subsurface Soil and Groundwater Pre-design Investigation Summary Report
Attachment 3	Regenesis Technical Design for In-situ Groundwater Remedy
Attachment 4	DER-10 Appendix 1A, New York State Department of Health Generic Community Air Monitoring Plan & DER-10 Appendix 1B Fugitive Dust and Particulate Monitoring

## 1. Introduction

The Former Bernzomatic Facility Site (Site) is a New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) Site (No. C837018) and is located at 1 Bernzomatic Drive, Village of Medina, Orleans County, New York (**Figure 1-1**).

This Remedial Action Work Plan (RAWP) – Phase II - Surface Soil and Groundwater, prepared by URS Corporation (URS), an AECOM company, on behalf of Newell Operating Company (Newell), presents a detailed description of the remedial activities to be implemented at the Site pursuant to Items #2 (targeted excavation areas), #3 (in the targeted excavation areas) and #5 of the Description of Selected Remedy set forth in the NYSDEC's Decision Documented dated February 2021.

Newell entered the BCP as a Participant as defined in ECL 27-1405(1)(a). On October 16, 2018, B360 Holdings LLC purchased the overall property of which the BCP Site is a portion. In April 2019, B360 Holdings submitted an Application to Amend Brownfield Cleanup Agreement (BCA) and Amendment form to be added to the Brownfield Cleanup Agreement as a Volunteer. Following NYSDEC comment, the form was amended, and B360 Holdings LLC requested to be added to the BCA as a Participant. NYSDEC approved the amendment and added B360 Holdings LLC to the BCA as a Participant on August 6, 2019. Newell remains a Participant on the BCA, as well. The planned remediation at the Site included demolition of the eastern machining building, excavation of surface soils at several previously defined locations across the Site and in-situ enhanced bioremediation of groundwater impacts in the area of the eastern machining building.

The Pre-Design Investigation (PDI) Phase I: Eastern Machining Building Demolition & Surface Cover (PDI Phase 1) is being conducted by LaBella Associates, D.P.C. (LaBella) on behalf of B360 Holdings LLC. The PDI Phase I pertained to demolition of the eastern machining building (including floor slabs) (completed), excavations for infrastructure upgrades and replacements, and installation of a 1-foot cover over the footprint of the excavations. The PDI Phase I was initiated in September 2021 and substantially completed in December 2021, with surface soil placement and grading completed in May 2022.

This RAWP presents proposed activities to complete removal of surface soils in the upper foot which exceed the Commercial Use Soil Cleanup Objectives (CUSCOs) and implement an enhanced bioremediation treatment zone for volatile organic compounds (VOCs) in overburden groundwater in the area of the former eastern machining building.

The proposed remedial action will be developed in accordance with the NYSDEC's Division of Environmental Remediation-10 (Technical Guidance for Site Investigation and Remediation) issued May 3, 2010 (DER-10).

# 2. Site Description and History

## 2.1 Site Description

The Site is located in the Village of Medina, Orleans County, New York. The property is comprised of two adjoining lots located in the Towns of Shelby and Ridgeway with the street address of 1 Bernzomatic Drive. The BCP parcel included two connected buildings – a western manufacturing building and an older now-demolished eastern machining building (**Figure 2-1 and Figure 2-2**). Truck and trailer parking areas are located to the north of the manufacturing building and employee and visitor parking is located to its south.

The western manufacturing building previously consisted of assembly, packaging, warehouse/storage, and office areas. Roof drains from the western manufacturing building discharge into a cistern system located beneath the manufacturing building. Overflow from the cistern discharges to a manmade stormwater pond located southwest of the manufacturing building.

The former eastern machining building was used for machining, parts washing, and materials storage. The eastern machining building was demolished in fall 2021 as part of the PDI Phase I. The building floor slab and footers were removed in fall 2021, and placement of clean fill to surrounding grade (approximately 1-foot thick) over the former building footprint was completed May 2022.

A former engineering laboratory approximately 4,000 square feet in size, and a former storage building approximately 8,000 square feet in size, are located on the east side of Bernzomatic Drive but are not part of the BCP parcel.

The adjacent properties are characterized as a mixture of industrial, commercial, and residential uses. The Site is bordered by vacant, wooded land, and a mix of residential, commercial, and industrial properties along Bates Road, by the New York Central Railroad and a vacant commercial property to the north; by vacant wooded land, a condominium development (senior citizen housing) and residential properties to the south; and by the Cook Building (a warehouse formerly leased by Bernzomatic), a "rag production factory" (manufacturer of industrial wipe cloths, fabrics and leather materials), and residential properties along East Avenue to the west.

## 2.2 Site History

Available records indicate that industrial use of the property began around 1915. Early activities included canneries and food processing. Ancillary buildings included a pipe shed, machine shop, and oil house. Available records indicate that parts cleaning operations were once performed using solvent degreasing agents.

Past operations involved the machining, assembly, packing, and shipping of hand-held torches by Bernzomatic, a division of Newell. In 2011, Newell sold the business to Worthington Industries who continued manufacturing torches at the Site until July 2014. The property was sold to B360 Holdings LLC in September 2018.

The western manufacturing building is currently occupied by B360 Holdings LLC and a tenant. B360 operations include dry goods storage in the northwest corner of the western manufacturing building; and tenant operations include material assembly, packaging, and shipping in the main area of the western manufacturing building.

## 2.3 **Previous Investigations**

Previous investigations at the Site consisted of a Phase I Environmental Site Assessment (ESA) performed by AECOM (AECOM 2010) and two phases of Phase II ESA and a Remedial Investigation (RI) performed by URS (URS 2018). The Phase II ESA and RI investigations collectively included geophysical surveys; completion of soil borings; installation of 21 monitoring wells; and collection and analysis of

surface and subsurface soil, groundwater, surface water and co-located sediment, sub-slab soil vapor and co-located indoor air, and outdoor air samples (**Figure 2-3**).

During the previous Phase II ESA and RI investigations, samples were submitted to New York State Department of Health (NYSDOH) Environmental Laboratory Accreditation Program (ELAP)-certified laboratories. The analytical results were validated by a URS chemist in accordance with NYSDEC DER-10 and United States Environmental Protection Agency (USEPA) Region II data validation procedures. In the Alternatives Analysis Report (AAR), semi-volatile organic compounds (SVOCs) in surface soil, and chlorinated VOCs and metals in subsurface soil and groundwater were identified as contaminants of concern. No contaminants of concern were identified in surface water or sediments.

Surface soils with SVOCs (polycyclic aromatic hydrocarbons [PAHs]) impacts were identified in relatively small areas at various locations across the Site with a total estimated volume of 21 cubic yards of soil to be removed.

The extent of chlorinated VOC impacts to subsurface soil is confined to the assumed source area in the former eastern machining building, specifically the former parts washing area. This area measures about 50 feet by 50 feet for a total of approximately 2,500 square feet. Full delineation of this area was not previously completed due to the presence of the eastern machining building.

The extent of chlorinated VOC impacts in groundwater as defined by the 5 micrograms per liter ( $\mu$ g/L) contour line is an area of approximately 162,000 square feet (**Figure 2-4**).

## 2.4 NYSDEC Decision Document

In 2020, URS prepared an Alternatives Analysis Report (AAR). Under the BCP, at a minimum the goal of the remedial program is to select a remedy for the Site that is protective of public health and the environment for the Site's reasonably anticipated use. The current and reasonably anticipated use of the Site is industrial. The primary purpose of the AAR was to identify and evaluate the most appropriate remedial alternatives to eliminate or mitigate, through the proper application of scientific and engineering principles, all significant threats to public health and to the environment presented by contaminants disposed at the Site.

The AAR identified several remedial alternatives and evaluated the effectiveness of each alternative with respect to the remedy selection evaluation criteria as presented in Title 6 New York State Codes, Rules and Regulations (NYCRR), Part 375 and DER-10. Remedies in the BCP are selected from up to four of the following cleanup tracks:

- Track 1 no restrictions on the use of the property.
- Track 2 restricted use with generic soil cleanup objectives (SCOs) based on the intended use of the property-residential, restricted residential (single family houses not allowed), commercial, or industrial.
- Track 3 restricted use with modified SCOs based on the same uses described in track 2 above.
- Track 4 restricted use with site-specific SCOs, where the shallow exposed soils must meet the generic SCOs used for track 2 above.

In February 2021, the NYSDEC issued the Decision Document for the Site (see **Attachment 1**). The selected Track 4 remedy is referred to as the Enhanced Bioremediation with Targeted PAHs and Source Area Excavation and Institutional Controls (IC) remedy includes the following elements:

- 1. Remedial Design (RD) to provide details for construction, operation, optimization, maintenance, and monitoring of the remedial program.
- 2. Excavation including:
  - demolition of the eastern machining building,

- investigating the extent of contamination in areas not previously accessible (i.e., the PDI),
- preparing a Remedial Action Work Plan (RAWP) based on the PDI to address the removal and/or treatment of any source areas to the extent feasible, and
- excavating and off-site disposal of soils in the upper 1-foot which exceed NYCRR Part 375 CUSCOs.
- 3. Backfill to replace excavated soils as necessary to establish the designed grades at the Site.
- 4. A cover system to allow for commercial or industrial use of the Site where the upper 1-foot of soil will exceed applicable SCOs.
- 5. Enhanced bioremediation to treat chlorinated VOCs in groundwater in the area of the former eastern machining building.
- 6. Implement engineering and institutional controls to achieve a Track 4 commercial cleanup, at a minimum, and include a Site cover.
- 7. Prepare and implement a Site Management Plan.

## 2.5 **Pre-Design Investigations**

#### 2.5.1 PDI Phase I

The PDI Phase I for the Eastern Machining Building Demolition & Surface Cover is being conducted by LaBella Associates, D.P.C. (LaBella) on behalf of B360 Holdings LLC (B360). The PDI Phase I pertained to demolition of the eastern machining building (including floor slabs) (completed), excavations for infrastructure upgrades and replacements, and installation of a 1-foot cover over the footprint of the excavations. The PDI Phase I was initiated in September 2021 and substantially completed in December 2021, with surface soil placement and grading completed in May 2022. The PDI Phase I Construction Completion Report, prepared by LaBella on behalf of B360, was submitted to NYSDEC /NYSDOH on March 14, 2023. NYSDEC/NYSDOH provided comments on the draft report on May 22, 2023. The revised draft PDI Phase I Completion Report will be submitted by LaBella on behalf of B360 under separate cover.

#### 2.5.2 PDI Phase II

The PDI Phase II for soil and groundwater is being conducted by URS on behalf of Newell. The PDI Phase II Work Plan was approved by the NYSDEC on March 18, 2022. The PDI Phase II subsurface soil and groundwater PDI was performed in late April and May 2022 upon demolition of the eastern machining building completed as PDI Phase I. The purpose of the PDI Phase II Work Plan was to gather additional information to complete the remedial design for soil and groundwater.

**Attachment 2** to this RAWP presents the PDI Phase II Report: Subsurface Soil and Groundwater summarizing the activities completed as part of the PDI Phase II. PDI Phase II soil and groundwater data are summarized in the following subsections.

#### Subsurface Soil

**Figure 2-5** presents subsurface soil data obtained during the PDI Phase II (locations PDI-01 through PDI-12) and the RI (all other locations). The concentrations of the detected compounds were compared against the criteria in NYCRR Part 375, Subpart 375-6, Table 375-6.8(a) *Unrestricted Use SCOs* and Table 375-6.8(b) *Protection of Groundwater Use SCOs and Commercial Use SCOs*.

Three metals were detected above Unrestricted Use SCOs as described below:

- Aluminum in 3 of 12 samples: in PDI-06, PDI-07, and PDI-12.
- Calcium in 9 of 12 samples: in PDI-01, PDI-02, PDI-04, PDI-05, PDI-06, PDI-07, PDI-09, PD I-10, and PDI-11.

• Iron: in all 12 samples: PDI-01 thru PDI-12.

Although there were detections of other metals at each PDI Phase II location, there were no exceedances of metals for Protection of Groundwater or CUSCOs. As can be seen on **Figure 2-5**, these results are consistent with the results of the RI (i.e., aluminum, calcium, and iron were detected in the same range of concentrations in subsurface soils in the PDI Phase II as were detected in the RI).

Eight VOCs were detected below criteria in at least one PDI location, including: 1,1,1-trichloroethane, cis - 1,2-dichloroethene (cis-1,2-DCE), trans - 1,2-dichloroethene (trans-1,2-DCE), acetone, methyl acetate, methyl ethyl ketone (2-Butanone), methylcyclohexane, and tetrachloroethene (PCE). No VOC concentrations exceeded Unrestricted Use, Protection of Groundwater, or CUSCOs.

#### Groundwater

**Figure 2-6** and **Figure 2-7** present the groundwater analytical data from the PDI Phase II and RI. During the PDI Phase II, groundwater grab samples were collected from twelve PDI temporary monitoring wells/soil borings (PDI-01 through PDI-12), and eight groundwater samples were collected using low-flow sample collection procedures from one new monitoring well (MW-22), two replacement monitoring wells (MW-05R and MW-19R) and five existing monitoring wells (MW-07, MW-14, MW-16, MW-17, and MW-21). The concentrations of the detected compounds were compared against the criteria in *NYSDEC TOGS (1,1,1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, April 2000.* 

Five metals were detected above groundwater standards and guidance values as described below:

- Barium in 2 of 8 samples: MW-16 and MW-21.
- Iron in 6 of 8 samples: MW-07, MW-14, MW-16, MW-17, MW-19R, and MW-22.
- Magnesium in 3 of 8 samples: MW-16, MW-17, and MW-21.
- Manganese in 8 of 8 samples: MW-05R, MW-07, MW-14, MW-16, MW-17, MW-19R, MW-21, and MW-22.
- Sodium in 7 of 8 samples: MW-05R, MW-14, MW-16, MW-17, MW-19R, MW-21, and MW-22.

Although there were detections of other metals at each PDI Phase II location, there were no other exceedances of metals for the listed groundwater standards and guidance values.

Nine VOCs were detected above the groundwater standards and guidance values, including: 1,1dichloroethane, 1,1-dichloroethene, cis -1,2- dichloroethene (cis-1,2-DCE), trans - 1,2- dichloroethene, acetone, chloroethane, tetrachloroethene, trichloroethene (TCE), and vinyl chloride.

Monitoring well locations where criteria exceeded VOC groundwater standards included: MW-05R, MW-07, MW-21 (and duplicate), and MW-22. Each of these locations is downgradient of the suspected source area in the former eastern machining building (i.e., former parts washing area) and within the footprint of anticipated groundwater impacts as shown on **Figure 2-4**. A summary of exceedance detections from low-flow monitoring well samples includes:

- MW-05R maximum concentration cis-1,2-DCE at 210  $\mu$ g/L; four other compounds detected at 22  $\mu$ g/L or less.
- MW-07 maximum concentration TCE at 6.1 µg/L; no other compounds detected above criteria.
- MW-21 maximum concentration cis-1,2-DCE at 65  $\mu$ g/L; two other compounds detected at 13  $\mu$ g/L each.
- MW-22 maximum concentration cis-1,2-DCE at 130  $\mu\text{g/L};$  no other compounds detected above criteria.

Groundwater grab locations where criteria exceeded VOC groundwater standards included: PDI-03, PDI-04, PDI-08, PDI-09, PDI-10, PDI-11, PDI-12. Grab sample VOC exceedances were predominantly located north of the new asphalt driveway, except for PDI-12, located just south of the western end of the new asphalt driveway. Other locations had detections for other select VOCs but were not in exceedance of the

groundwater criteria. A summary of VOC exceedance detections in direct-push boring grab sample locations includes:

- PDI-03 maximum concentration cis-1,2-DCE at 300 µg/L; no other compounds detected above criteria.
- PDI-04 maximum concentration cis-1,2-DCE at 1,400  $\mu$ g/L; two other compounds detected at 430  $\mu$ g/L and 250  $\mu$ g/L respectively, and four other compounds detected at 73  $\mu$ g/L or less.
- PDI-08 maximum concentration cis-1,2-DCE at 18  $\mu$ g/L; no other compounds detected above criteria.
- PDI-09 maximum concentration cis-1,2-DCE at 87  $\mu$ g/L; four other compounds detected at 11  $\mu$ g/L or less.
- PDI-10 maximum concentration cis-1,2-DCE at 140  $\mu$ g/L; three other compounds detected at 23  $\mu$ g/L or less.
- PDI-11 maximum concentration cis-1,2-DCE at 300  $\mu$ g/L; three compounds detected between 52  $\mu$ g/L and 73  $\mu$ g/L, and two compounds detected below 10  $\mu$ g/L.
- PDI-12 maximum concentration cis-1,2-DCE at 1,400  $\mu$ g/L; one other compound detected at 160  $\mu$ g/L, and four other compounds detected at 45  $\mu$ g/L or less.

Groundwater grab samples were collected from the pilot borings for two new wells (PDI-11 at MW-05R and PDI-3 at MW-22). In each case, compounds detected were similar, but concentrations were greater in the groundwater grab sample as compared to the low-flow sample, which would be expected given the differences in the sample collection techniques.

The individual constituents detected in the PDI Phase II groundwater VOC and metals data are consistent with the results of the RI. The range of VOC concentrations detected in the PDI Phase II groundwater samples focused within the footprint of the former eastern machining building were generally greater than observed in the RI areas outside the footprint of the former eastern machining building. The RI concluded VOC levels in groundwater suggest the likely source was in the former eastern machining building. PDI Phase II VOC groundwater data support this conclusion. MNA and field parameters collected from four select groundwater monitoring wells indicate a reductive pathway is possible. Therefore, it is appropriate to proceed with the remedy described in the Decision Document without further investigation or refinement.

## 2.6 Current Site Conditions

The former Eastern Machining Building has been demolished and the area backfilled to match surrounding grade. The backfilled area has been seeded to establish a grass-covered lawn area.

The Site is underlain by approximately 5 to 12.5 feet of unconsolidated materials overlying bedrock. The unconsolidated materials are comprised of as much as 4 feet of fine to medium sand and gravel with some concrete and wood. The fill is underlain by natural deposits of sand and silt with some gravel. The underlying bedrock consists of approximately 10 feet of the Irondequoit Limestone underlain by Medina Group sandstone.

Depth to overburden groundwater ranges from 0.5 to 6.7 feet below ground surface with an average depth of approximately 2.7 feet below ground surface. Using water level measurements from May 2, 2022, PDI Phase II Report **Figure 2** presents the groundwater elevation contour map - overall groundwater flow is to the north-northwest.

During the remedial investigation, the results of slug tests from four wells indicate hydraulic conductivities in the unconsolidated materials range from approximately 7.58 x  $10^{-4}$  centimeters per second (cm/sec) to 4.99 x  $10^{-3}$  cm/sec.

# 3. Remedial Action Objectives

Remedial Action Objectives (RAO) for the Site are presented in Section 6.5 of the February 2021 Decision Document (see **Attachment 1**). For convenience, the list is repeated here.

The following RAOs have been established for Site media:

#### Groundwater

#### RAOs for Public Health Protection

- Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of volatiles, from contaminated groundwater.

**RAOs for Environmental Protection** 

- Restore ground water aquifer to pre-disposal/pre-release conditions, to the extent practicable.
- Prevent the discharge of contaminants to surface water.
- Remove the source of ground or surface water contamination.

#### <u>Soil</u>

**RAOs for Public Health Protection** 

- Prevent ingestion of or direct contact with contaminated soil.
- Prevent inhalation of or exposure from contaminants volatilizing from contaminants in soil.

**RAOs for Environmental Protection** 

• Prevent impacts to biota from ingestion/direct contact with soil causing toxicity or impacts from bioaccumulation through the terrestrial food chain.

#### <u>Sediment</u>

#### RAOs for Public Health Protection

- Prevent ingestion of or direct contact with contaminated sediments.
- Prevent surface water contamination which may result in fish advisories.

#### **RAOs for Environmental Protection**

- Prevent releases of contaminants from sediments that would result in surface water levels in excess of ambient water quality criteria.
- Prevent impacts to biota from ingestion/direct contact with sediments causing toxicity or impacts from bioaccumulation through the marine or aquatic food chain.

#### <u>Soil Vapor</u>

RAOs for Public Health Protection

• Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at a site.

The objective of this RAWP is to address soil and groundwater as summarized in Section 2.4, above, and described more fully in Section 7 of the February 2021 Decision Document (**see Attachment 1**).

# 4. Standards, Criteria, and Guidance

Appropriate standards, criteria, and guidance (SCG) will be used during implementation of the RAWP. Based on the nature of the remedial action, it is expected that the following SGCs will be applied to evaluate import of soil to the Site, re-use of soil at the Site, and export of soil from the Site as is detailed below. These SCGs were developed using NYSDEC DER-10, the Excavation Work Plan prepared for the Site by URS dated October 2019, the Final AAR Report prepared for the Site by URS dated August 2020, and the Decision Document issued by the NYSDEC for the Site dated February 2021.

- <u>NYSDEC Remedial Program Soil Cleanup Objectives</u>
  - o 6 NYCRR Part 375 Subpart 375-6
- Soil Import SCG
  - Soil imported to the Site will meet Part 375 Unrestricted Use SCOs and applicable NYSDEC guidance for Polyfluoroalkyl Substances (PFAS).
- Soil Re-Use SCG
  - Soil which exceeds Part 375 CUSCOs may not be reused on-site.
  - Soil which exceeds Part 375 Unrestricted Use SCOs, but does not exceed Part 375 CUSCOs, may be re-used on-site if placed below an impervious surface, or placed beneath a minimum of 12 inches of clean cover material.
  - Soil which does not exceed Part 375 Unrestricted Use SCOs can be re-used on-site without restriction.
  - If soil is to be reused at the Site or exported from the Site, such will be completed in accordance with 6 NYCRR Part 360.
- Soil Export SCG
  - Soil excavated from the Site for off-site disposal will be considered contaminated unless testing demonstrates the soil does not exhibit contaminants exceeding Part 375 Unrestricted Use SCOs for the site-related contaminants of concern and applicable NYSDEC guidance for PFAS.
- Groundwater Quality Standards and Guidance Values
  - o 6 NYCRR Part 700-706, including 6 NYCRR Part 703.5
  - NYSDEC Division of Water, TOGS 1.1.1
- In-situ Treatment of Groundwater
  - Underground Injection Control Program, 40 CFR Part 144

## 5. Remedial Action Work Plan

## 5.1 **Design Description**

The following sections describe the elements of the design basis that apply to the remedial design. **Figure 5-1** shows the layout of the surface soil excavation areas and **Figure 5-2** shows the layout of the in-situ groundwater treatability area.

## 5.2 Surface Soil Remedial Activity

## 5.2.1 Site Preparation

The Site will be prepared for the required remedial action and restoration work. The Site preparation activities include mobilization, installation of erosion and sedimentation controls (as needed), installation of temporary site facilities, utility location and protection, and implementation of traffic controls associated with soil transport vehicles.

## 5.2.2 Surface Soil Excavation

As specified in the Decision Document, soils with contaminants of concern (in this case, PAHs) in the upper foot which exceed the CUSCOs as defined by 6 NYCRR Part 375-6.8 will be excavated and transported off-site for disposal. Only PAHs were identified as a contaminant of concern in surface soil.

Prior to the start of intrusive activities, the excavation subcontractor will contact the New York DIG SAFE CALL CENTER at Dig Safely New York for public utility mark outs. URS will review available Site drawings and contact Site personnel to identify subsurface utilities and structures to the extent feasible.

**Figure 5-1** presents the areas identified for surface soil remediation. Each excavation area will initially be completed as a 10' x 15' x 1 deep excavation. It is estimated that 21 CY of contaminated soil will be excavated and transported offsite for disposal in accord with all applicable law. Compliance samples will be collected as described in Section 5.2.3.

A demarcation layer, such as commercially available orange snow fence, orange cargo netting, or other non-biodegradable, visible material that does not impact the percolation of groundwater will be utilized prior to backfilling excavation areas. The demarcation layer will be placed over the full footprint of the excavation and sidewalls.

Backfill will be completed as described in Section 5.2.4. Excavation areas will be restored to grade and seeded to match surrounding grassy areas.

## 5.2.3 Compliance Samples

Confirmation samples will be collected to demonstrate the remedy has removed soils with contaminants of concern exceeding CUSCOs from the top 12 inches. As the excavations addressing surface soil contamination are between 20 and 300 feet in perimeter, and have a surface area less than 900 square feet, confirmation samples will be collected in accordance with DER-10, Section 5.4(b)5.ii. Therefore, one sample will be collected from the bottom of the excavation and one sample will be collected at the midpoint of each sidewall. If a sidewall is comprised of a pavement section (i.e., immediately adjacent to asphalt parking lot or driveway), a sidewall sample will not be collected for that sidewall.

Confirmation sample results will be compared to the CUSCOs to confirm that soils with PAHs exceeding CUSCOs have been successfully remediated. Preliminary confirmation sample data will be provided to NYSDEC / NYSDOH prior to backfilling. If a sidewall sample location fails to meet criteria, an additional 4 foot wide by 1-foot-deep cut of surface soil will be removed from the sampled sidewall and sampling will be repeated. If the initial bottom sample fails to meet criteria, an additional minimum 0.5-foot depth will be excavated and sampling repeated. If a sample fails to meet criteria after two attempts at any sample

location, the NYSDEC project manager will be consulted prior to proceeding with any additional excavations.

The soil confirmation samples will be collected and managed in accordance with the soil sampling procedures outlined in the Remedial Investigation Work Plan. The soil samples will be submitted to a NYSDOH ELAP-certified laboratory for analysis of PAHs by EPA SW 846 Method 8270D. A sample list summary including quantities and analytical methods is presented in **Table 5-1**. Analytical specifications, sample bottle, volume, preservation and holding times are presented in **Table 5-2**.

Quality assurance/quality control (QA/QC) samples consisting of a matrix spike/matrix spike duplicate (MS/MSD), and field duplicate will be collected at a frequency of one per 20 samples. The estimated number of samples is as follows:

Parameters	Method	Samples	MS/MSD	Field Duplicate	Rinse Blank	Trip Blank	Total
Soil Samples							
SVOCs (PAHs)	8270D	18	1/1	1	1		22

The analytical results will be validated by a URS chemist following NYSDEC and EPA data validation procedures. The analytical laboratory will supply Category B data deliverables within 15 days of sample receipt. A Data Usability Summary Report (DUSR) will be prepared as detailed in DER-10, Appendix 2B.

### 5.2.4 Imported Soil and Granular Fill

It is anticipated that materials imported to the Site will be limited to topsoil and granular (crushed stone) backfill. Prior to import of soil and granular fill to the Site, a request to Import/Reuse Fill or Soil will be prepared and submitted to the NYSDEC project manager for review and approval. It is the intent to utilize the same borrow sources as were approved for use in the PDI Phase I for the Site. The request to Import/Reuse Fill or Soil will be accompanied by appropriate documentation detailing the source, sieve analysis, and laboratory results, etc. Laboratory analysis for soil will be completed in accordance with DER-10, Table 5.4(e)10 and include analysis for 1,4-dioxane and poly- and perfluoroalkyl substances (PFAS). Any coarse grained backfill will meet the requirements of DER-10, Section 5.4(e)(5)(i). If the grain size distribution of the granular backfill is shown to contain less than 10 percent by weight of particles that pass the #80 sieve, no laboratory chemical testing may be required.

Trucks entering the Site with imported soils will be securely covered with tight fitting covers. Imported soils will be stockpiled separately from excavated materials and covered to prevent dust releases.

### 5.2.5 Soil Stockpiles

Although it is not anticipated to be necessary given the limited excavation and backfill areas, if soils are stockpiled temporarily, stockpiles will be continuously encircled with a berm and/or silt fence. Stockpiles will not be staged directly on the ground surface (i.e., stockpiles must be on poly or in lined containers). Hay bales or a silt sock will be used as needed near catch basins, surface waters, and other discharge points. Stockpiles will be kept covered at all times when not in use with anchored tarps. Stockpiles will be routinely inspected and damaged tarp covers will be promptly replaced. Stockpiles will be inspected at a minimum once each week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the Site and available for inspection by the NYSDEC.

### 5.2.6 Material Disposal Offsite

Excavated impacted soil will be transported to a permitted off-site landfill for disposal as a solid waste if waste characterization sampling and analysis confirms this expectation. It is anticipated that excavated soil will be transported to Niagara Falls Landfill located in Niagara Falls, New York, for disposal. Soil transported for landfill disposal will be characterized per the landfill requirements prior to export from the Site.

Transport of materials will be performed by licensed haulers in accordance with applicable local, state, and federal laws and regulations. Haulers will be appropriately licensed, including under 6 NYCRR Part 364,

and trucks properly placarded. If soil loads contain wet material capable of producing free liquid, truck liners will be used. Trucks exiting the site with exported materials will be securely covered with tight fitting covers to prevent contaminated dust releases.

As it is anticipated no more than three truckloads of soil will be generated for disposal, a formal transportation plan is not anticipated. However, transporters loaded with Site materials will exit the vicinity of the Site using only the existing driveways and will follow the most appropriate routes taking into account: (a) limiting transport through residential areas and past sensitive sites; (b) use of city mapped truck routes; (c) prohibiting off-site queuing of trucks entering the Site; (d) limiting total distance to major highways; (e) promoting safety in access to highways; and (f) overall safety in transport.

Based on the limited excavation areas and shallow depth of disturbance it is not anticipated that construction water will be generated. However, if investigative derived fluids are generated or dewatering is necessary due to rainwater collection (where a sump will be dug in the excavation and pumps of proper sizing and capacity will be used to transfer runoff), such investigative derived fluids and/or runoff will be placed in a holding tank or 55-gallon drums. Collected water would be characterized and transported to an appropriate off-site disposal facility in accordance with applicable local, state, and federal regulations.

#### 5.2.7 Decontamination

During and upon completion of remediation activities, decontamination of equipment will be performed to prevent contaminated material from being spread off site during waste hauling activities, and to prevent the spreading of impacted material to un-impacted areas of the site. Trucks used for transport of excavated material will be decontaminated using dry decontamination methods (i.e., removal of loose material with a broom or brush) to limit the volume of decontamination water which will require treatment and disposal. These methods, along with parking of trucks on plastic sheeting during loading, will effectively prevent the spread of contaminated materials onto roadways during transport to disposal facilities. If impacted waste materials are inadvertently spread such materials must be cleaned immediately.

Decontamination of the earth-moving and drilling equipment will occur at the completion of their respective phase of work and prior to the handling of clean backfill or de-mobilization off site. The method of equipment decontamination will consist of pressure washing to remove any impacted soil. Decontamination water generated during cleaning of tools and equipment will be collected in on-site collection area (e.g., temporary decontamination pad) and disposed of at an approved water handling facility. Water generated from decontaminating personnel will be minimal due to the availability of disposable personal protective equipment (PPE) such as Tyvek coveralls, booties, and nitrile gloves. The volume of decontamination water generated from personnel decontamination is assumed to be minimal compared to equipment decontamination water.

#### 5.2.8 Investigation-derived Waste Management

Investigation-derived waste (IDW) generated during remedial activities (e.g., decontamination water, soil cuttings from groundwater remedy activity, purge water) will be placed in properly labeled 55-gallon drums. Drums of soil and groundwater will be labeled as "pending analysis – Potentially Hazardous Waste – pending analysis - Investigation-derived residual – soil/water from drill cuttings" and temporarily stored on-site pending characterization. One composite sample from the drummed soil cuttings and one composite sample from the drummed purge water will be collected for characterization for off-site disposal. The composite samples will be analyzed for parameters required by the selected waste disposal facility. Solid IDW will be disposed at an appropriately permitted landfill and liquid IDW will be disposed at an appropriately permitted landfill and liquid IDW will be disposed at an appropriately permitted landfill and liquid IDW will be disposed at an appropriately permitted landfill and liquid IDW will be disposed at an appropriately permitted landfill and liquid IDW will be disposed at an appropriately permitted landfill and liquid IDW will be disposed at an appropriately permitted landfill and liquid IDW will be disposed at an appropriately permitted landfill and liquid IDW will be disposed at an appropriately permitted landfill and liquid IDW will be disposed at an appropriately permitted landfill and liquid IDW will be disposed at an appropriately permitted landfill and liquid landfill and liquid liquid waste disposed at an appropriately permitted landfill and liquid liquid waste disposed at an appropriately permitted landfill and liquid liquid waste disposed at an appropriately permitted landfill and liquid liquid waste disposed at an appropriately permitted landfill and liquid waste disposed at an appropriately permitted landfill and liquid waste disposed at an appropriately permitted landfill and liquid waste disposed at an appropriately permitted landfill and liquid waste disposed at an appropria

### 5.2.9 Air Monitoring

Community air monitoring for VOCs and particulates (i.e., dust) will be performed in the area during intrusive activities. The community air monitoring is intended is to provide a protection for the downwind community (i.e., off-site receptors including residences and businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of investigation work activities.

Real time monitoring will be performed at one upwind and one downwind station for VOCs and particulates in accordance with the guidance in DER-10 Appendix 1A, New York State Department of Health (NYSDOH) Generic Community Air Monitoring Plan and DER-10 Appendix 1B Fugitive Dust and Particulate Monitoring. These documents are provided in **Attachment 4**.

VOC monitoring will be performed using a RAE Systems MiniRAE<sup>™</sup> or equivalent located downwind of the work zone. If the concentration of total VOCs exceeds 5 parts per million (ppm) above background, then work activities will be temporarily halted. If the total VOC level then decreases below 5 ppm over background, work activities will resume. If the total VOC levels persist at levels in excess of 5 ppm, work activities will be halted, the source of the vapors identified, and corrective actions taken to abate the emissions until the concentrations drop below the action levels. PIDs will be calibrated daily.

Particulate monitoring will be performed using a real-time DusTrak meter or equivalent, which is capable of measuring particulate matter less than 10 microns in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate alert and action levels. The alert level is 100 micrograms per cubic meter [mcg/m<sup>3</sup>]) and the action level is150 mcg/m<sup>3</sup>. If the particulate level is 100 (mcg/m<sup>3</sup>) greater than background for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. If the PM-10 particulate levels exceed 150 mcg/m<sup>3</sup> above the background level work must be stopped and a re-evaluation of activities initiated. Work may continue if controls implemented are successful in reducing the PM-10 particulate levels below 150 mcg/m<sup>3</sup>. Each particulate monitor's calibration will be checked daily with a filtered air sample.

The on-site Qualified Environmental Professional will monitor the operation of the CAMP equipment to verify CAMP stations are recording data appropriately. Weekly CAMP monitoring reports will be submitted to NYSDEC / NYSDOH during the duration of all ground-breaking work (i.e., soil excavations and subsurface drilling and injections).

#### 5.2.10 Survey

Completed excavations will be surveyed by a URS New York State-licensed land surveyor. The horizontal coordinate system will be New York State Plane – West (NAD83) with vertical information which will use North America Vertical Datum (NAVD88). Following the survey, the following deliverables will be disseminated to the Department of Environmental Conservation:

- A PDF file of the survey map(s), and
- CAD file(s) (.dwg) or ArcGIS Pro shapefile(s) (.shp) of the survey map(s).

## 5.3 Groundwater Remedial Activity

As described in the Section 7 of the Decision Document, in-situ enhanced biodegradation will be employed to treat chlorinated VOCs in groundwater in the area of the eastern machining building. Data obtained during the Phase II PDI were consistent with prior data and supported the selected remedy. The biological breakdown of contaminants through anaerobic reductive dechlorination will be enhanced by the placement of bacteria and nutrients into the subsurface to promote microbe growth. The final remedial design of the in-situ enhanced biodegradation remedy, including the permeable reactive barrier, as described in this section will be refined based on data obtained from a pre-implementation study. The purpose of the pre-implementation study is to confirm / augment design assumptions.

### 5.3.1 In-situ Remedy

URS is proposing to implement the in-situ remedy with support from Regenesis, a recognized leader in technology-based solutions for the in-situ treatment of groundwater and soil contamination. Following completion of PDI Phase II data reduction, URS provided remedial investigation and PDI Phase II soil and groundwater data to Regenesis. **Figure 5-2** presents the proposed remedial approach including injection materials, volumes, and locations. The Technical Approach section of **Attachment 3** provides detailed information on the injection materials.

As described in **Attachment 3**, a brief pre-implementation study (Design Verification Testing or "DVT") is proposed to confirm design assumptions. The purpose of the pre-implementation DVT study is to verify that the subsurface conditions at the selected application locations matches those conditions used in the design. Performing the DVT step provides critical data input to the design team allowing the adjustment as necessary of the elements in the design. These design adjustments could, for example, optimize substrate placement and will result in an overall improvement in remedial performance and a reduction in overall project cost.

REGENESIS is recommending installing a FluxTracer at target wells MW-5R and MW-7. FluxTracer is a device that is deployed into the saturated screened interval of a monitoring well that can accurately determine groundwater speed and chlorinated solvent mass flux, both are instrumental in the successful design of PlumeStop barriers. A FluxTracer unit consists of a series of 2-foot pre-strung canisters installed into a 2-inch monitoring well for approximately two weeks. Each canister contains activated carbon and biodegradable tracers. As groundwater naturally moves through the FluxTracer, contaminants are sorbed to the activated carbon, and the tracers are depleted from activated carbon. The amount of sorbed VOCs is used to determine mass flux, while the depletion of the tracers can estimate groundwater speed. Initial construction and lab analysis is completed by REGENESIS; deployment and retrieval will be performed by URS field personnel. Refer to **Attachment 3** for a FluxTracer Specification Sheet, FluxTracer Installation and Retrieval Guide, and Flux Tracer Site Evaluation Form.

This brief study will be implemented within two weeks of RAWP approval. After data are evaluated, a brief letter report with final recommendations and/or revised figures will be prepared and submitted to NYSDEC / NYSDOH for approval prior to proceeding with in-situ remedial action.

#### 5.3.2 Mobilization

Upon approval of the RAWP, a United States Environmental Protection Agency (USEPA) Region 2 Underground Injection Control (UIC) Permit is not required for Class V Remediation Wells; however, notification for inventory is required. The notification form will be completed and submitted to EPA Region 2 prior to implementing the pilot study; see <u>https://www.epa.gov/uic/underground-injection-control-eparegion-2-nj-ny-pr-and-vi</u> for submittal information. A copy of the completed form will be provided to NYSDEC prior to mobilizing to the Site.

Prior to the start of intrusive activities, the drilling subcontractor will contact the New York DIG SAFE CALL CENTER at Dig Safely New York for public utility mark outs. URS will also review available Site drawings and contact Site personnel to identify subsurface utilities and structures.

It is URS's understanding that utilities were disconnected from the former eastern machining building prior to demolition. During the building demolition phase, three utilities were either protected or rerouted for continued use (low voltage electric; fire protection water loop; and natural gas). Any borings completed in the vicinity of these utilities will be hand cleared to a 5-foot depth.

### 5.3.3 Injection Borings

Injection borings will be completed using a direct-push drill rig. The injection borings will be installed at locations in accordance with the proposed design in **Attachment 3**. After the injection is completed, the injection boring will be filled with bentonite chips and hydrated to minimize the potential for short-circuiting of injection fluids from adjacent injection points.

Injection borings will be established in the injection areas shown on **Figure 5-2** at 10 feet on-center and will be initially advanced to refusal (i.e., top of bedrock, approximately 10 to 12 feet below ground surface [bgs] depending on location). Injections are planned to begin at refusal (approximately 10 to 12 feet bgs depending on location) and continue upward to approximately three feet bgs (i.e., through the saturated interval).

The following data, associated with delivery hydraulics, will be collected during the injection process.

- GPS location of each injection boring
- Composition of injected solution;

- Injection location;
- Injection interval;
- Injection solution flow rate;
- Injection pressure;
- Temperature, pH, and specific conductance of the injection solution; and,
- Cumulative volume of injection solution delivered to the injection point.

The generation of soil cuttings is expected to be minimal and will be managed as described in Section 5.2.8.

#### 5.3.4 Post-Injection Performance Monitoring

Post-injection groundwater monitoring will be performed to provide data related to the performance of the injected amendment with respect to remedial action objectives. Should data indicate the need, additional injections may be warranted to keep contaminant concentrations down; such evaluation and recommendations related to the data will be presented in the periodic reporting program described in Section 8.1 and Section 8.3. The performance monitoring program will include laboratory analysis and field measurement of selected parameters during performance monitoring events.

To enhance the downgradient monitoring program, one new monitoring well (MW-23) will be installed downgradient of the PlumeStop barrier in the vicinity of RI borings GSP-19/SB-05A (see **Figure 5-2** and **Figure 2-3**, respectively), and existing monitoring well MW-9 will be added to the post-injection monitoring program. These two additional points will provide intermediary information between the wells closest to the barrier (MW-5R and MW-7) and downgradient boundary wells (MW-16 and MW-17). New well MW-23 will be installed and developed in accordance with the methods described in the approved Phase II PDI Work Plan (March 2022).

Groundwater samples will be collected from the treatment area well (MW-22), eight other pre-existing wells (MW-5R, MW-7, MW-9, MW-14, MW-16, MW-17, MW-19R, MW-21) and new well MW-23. Performance groundwater monitoring will be conducted on a quarterly basis for one year from injection. The quarterly groundwater samples will be submitted to the NYSDOH ELAP-certified laboratory for analysis of VOCs, total and dissolved iron, total and dissolved manganese, sulfate, sulfide, nitrate, total organic carbon, alkalinity, chloride, and methane, ethane, ethene and carbon dioxide. All analyses will be performed following EPA methods, where applicable. A sample list summary including quantities and analytical methods is presented in **Table 5-1**. Analytical specifications, sample bottle, volume, preservation and holding times are presented in **Table 5-2**.

The groundwater samples will be collected using the low-flow sampling procedure. Water quality measurements of dissolved oxygen (DO), oxidation-reduction potential (ORP), pH, temperature, and conductivity will be periodically recorded (e.g., every gallon) using a flow-through meter.

Quality assurance/quality control (QA/QC) samples consisting of a matrix spike/matrix spike duplicate (MS/MSD), and field duplicate will be collected at a frequency of one per 20 samples per round. In addition, one trip blank per cooler containing aqueous samples scheduled for VOC analysis.

The analytical results will be validated by a URS chemist following NYSDEC and EPA data validation procedures. The analytical laboratory will supply Category B data deliverables within 15 days of sample receipt. A DUSR will be prepared as detailed in DER-10, Appendix 2B.

The groundwater results will be compared to the standards and guidance values presented in NYSDECs TOGS 1.1.1, dated June 1998.

Quarterly post-injection performance monitoring data will be communicated to NYSDEC within 30 days of receipt of laboratory data packages.

## 5.4 Final Engineering Report

At the completion of the remedial action, a Final Engineering Report (FER) will be prepared in accordance with DER-10, Section 5.8(a)2.(iii), including a set of "as-built" drawings, in accordance with Section 5.2(b). The FER will summarize the Phase II RAWP activities described herein and include the Phase I PDI Construction Completion Report as an appendix. The Phase II RAWP FER will be submitted 60 days after completion of remedial excavation and installation of the injections. As noted in Section 5.3.4, post-injection monitoring reports will be submitted separately as part of the MNA (monitoring) section of the Site Management Plan that will be appended to the FER along with a copy of the Environmental Easement for the Site.

# 6. Quality Assurance Project Plan

This section describes the QA requirements for the RAWP as specified in DER-10.

## 6.1 **Project Organization**

This RAWP will be performed by URS on behalf of Newell. URS will arrange for the excavation, drilling, surveying, and analytical services and provide on-site field personnel to perform any soil characterization, soil sampling, and groundwater sampling. Key contacts for this project are as follows:

#### Newell Operating Company Director Environmental Affairs:

Kristin Holloway Jones Newell Operating Company 3 Glenlake Parkway Atlanta, Georgia 30328 Telephone: (770) 418-7822

#### B360 Holdings LLC Owner:

Kyle Brent B360 Holdings LLC 9952 Mountain Road Middleport, New York 14105 Telephone: (585) 205-8319

#### **URS Project Manager:**

James Kaczor, P.G. AECOM 50 Lakefront Blvd., Suite 111 Buffalo, New York 14202 Telephone: (716) 856-5636

#### URS Field Team Manager:

To be determined.

#### **URS Quality Assurance Officer:**

To be determined.

#### Laboratory Representative (Eurofins TestAmerica):

To be determined.

## 6.2 Sampling and Testing Procedures

This section details the sampling and testing procedures which will be followed during this RAWP. The chosen laboratory for the project, Eurofins TestAmerica, is certified, and maintains certification, under the NYSDOH ELAP.

Sampling equipment will be properly decontaminated before being reused or disposed of accordingly. Samples will be collected in pre-cleaned sample containers provided by the laboratory performing analysis with any necessary preservations added to the sample containers at the laboratory prior to sample collection. Coolers with ice will be used to store samples at 4 degrees Centigrade (°C) until delivered to and analyzed by the laboratory.

#### 6.2.1 Chemical Analysis

Samples collected as described in this RAWP will be analyzed for the parameters specified in **Table 5-1**. Field duplicate and MS/MSD are required at a frequency of 1 per 20 samples per round. One rinse blank will be collected during each sampling event and analyzed for the parameters specified in **Table 5-2**. A trip blank will be submitted to the lab with each shipment of aqueous VOC samples. Holding times for the

samples are given in **Table 5-2**. Chain-of-custody procedures will be followed to document that contamination of samples has not occurred during container preparation, shipment, and sampling.

## 6.3 Sample Tracking and Custody

This section presents sample custody procedures for both the field and laboratory. Implementation of proper custody procedures for samples generated in the field is the responsibility of URS field personnel. Both laboratory and field personnel involved in the chain-of-custody and transfer of samples will be trained on the purpose of the chain-of-custody and specific procedures prior to implementation.

Evidence of sample traceability and integrity is developed by implementation of, and adherence to, the chain-of-custody procedures. These procedures document the sample traceability from the selection and preparation of the sample containers by the laboratory, to sample collection, to sample shipment, to laboratory receipt and analysis. A sample is considered to be in a person's custody if the sample is:

- In a person's possession
- Maintained in view after possession is accepted and documented
- Locked and tagged with custody seals so that no one can tamper with it after having been in physical custody
- In a secured area which is restricted to authorized personnel

### 6.3.1 Field Sample Custody

A chain-of-custody record accompanies the sample containers from selection and preparation at the laboratory, during shipment to the field for sample containment and preservation, and during return to the laboratory. Triplicate copies of the chain-of-custody must be completed for each sample set collected.

The chain-of-custody lists the field personnel responsible for taking samples, the project name and number, the name of the analytical laboratory to which the samples are sent, and the method of sample shipment. The chain-of-custody also lists a unique description of every sample bottle in the set. If samples are split and sent to different laboratories, a copy of the chain-of-custody record will be sent with each sample.

The "Remarks" space on the chain-of-custody is used to indicate if the sample is an MS/MD/MSD, or any other sample information for the laboratory. Since they are not specific to any one sample point, trip and equipment blanks are indicated on separate rows. Once all bottles are properly accounted for on the form, a sampler will write his or her signature and the date and time on the first "Relinquished By" space. The sampler will also write the method of shipment, the shipping cooler identification number, and the shipper air bill number on the top of the chain-of-custody. Errors will be crossed out with a single line in ink and initialed and dated by the author.

One copy of the chain-of-custody is retained by sampling personnel and the other two copies are put into a sealable plastic bag and taped inside the lid of the shipping cooler. The cooler is wrapped tightly with clear packing tape. It is then relinquished by field personnel to personnel responsible for shipment, typically an overnight carrier. The packing tape must be broken to open the container. Breakage of the tape before receipt at the laboratory may indicate tampering. If tampering is apparent, the laboratory will contact the URS Project Manager, and the sample(s) will not be analyzed.

### 6.3.2 Laboratory Sample Custody

The URS Project Manager or Field Team Manager will notify the laboratory of upcoming field sampling activities and the subsequent shipment of samples to the laboratory. This notification will include information concerning the number and type of samples to be shipped as well as the anticipated date of arrival.

The following laboratory sample custody procedures will be used:

- The laboratory will designate a sample custodian who will be responsible for maintaining custody of the samples and for maintaining all associated records documenting that custody.
- Upon receipt of the samples, the custodian will check cooler temperature, and check the original chain-of-custody documents and compare them with the labeled contents of each sample container for correctness and traceability. The sample custodian will sign the chain-of-custody record and record the date and time received.
- Care will be exercised to annotate any labeling or description errors. In the event of discrepant documentation, the laboratory will immediately contact the URS Project Manager or Field Team Manager as part of the corrective action process. A qualitative assessment of each sample container will be performed to note any anomalies, such as broken or leaking bottles. This assessment will be recorded as part of the incoming chain-of-custody procedure.
- The samples will be stored in a secured area and, if required, stored at a temperature of 4°± 2°C.
- A laboratory tracking record will accompany the sample or sample fraction through final analysis and final storage for control.

A copy of the tracking record will accompany the laboratory report and will become a permanent part of the project records.

## 6.4 Reporting

Data will be provided in electronic format, including the following specific requirements:

- All data generated will be submitted in an electronic data deliverable (EDD) that complies with the DEC's Electronic Data Warehouse standards (EDWS) or as otherwise directed by DER.
- Preliminary or final reports will be submitted to the DER in an electronic format that complies with DEC's Electronic Document Standards (EDS) or as otherwise directed.
- A DUSR will be prepared in accordance with NYSDEC procedures.

## 6.5 Data Quality Usability Objectives

Data Quality Objectives (DQOs) are qualitative and quantitative statements to ensure that data of known and appropriate quality are obtained during sampling and analysis activities. Data developed during the RAWP and PDI will be used to fulfill the overall objectives of the program.

The QA/QC objectives for all measurement data include precision, accuracy, representativeness, completeness, and comparability. These objectives are defined in following subsections. They are formulated to meet the requirements of the USEPA SW-846, the analytical methods and their Contract Required Quantitation Limits (CRQLs), and Contract Required Detection Limits (CRDLs).

### 6.5.1 Precision

Precision is an expression of the reproducibility of measurements of the same parameter under a given set of conditions. Specifically, it is a quantitative measurement of the variability of a group of measurements compared to their average value. Precision is usually stated in terms of standard deviation, but other estimates such as the coefficient of variation (relative standard deviation), range (maximum value minus minimum value), relative range, and relative percent difference (RPD) are common.

For this project, field sampling precision will be determined by analyzing coded duplicate samples (labeled so that the laboratory does not recognize them as duplicates) for the same parameters, and then, during data validation, calculating the RPD for field duplicate sample results.

The data quality objectives for analytical precision, calculated as the RPD between duplicate analyses, will be statistically calculated laboratory control limits based on historical data. Should there be insufficient

data to calculate limits; the validation default RPD limits will be used: 20% for aqueous samples and 35% for soils.

#### 6.5.2 Accuracy

Accuracy is a measure of the degree of agreement of a measured value with the true or expected value of the quantity of concern, or the difference between a measured value and the true or accepted reference value. The accuracy of an analytical procedure is best determined by the analysis of a sample containing a known quantity of material and is expressed as the percent of the known quantity which is recovered or measured (percent recovery).

Sampling accuracy may be determined through the assessment of the analytical results of field blanks and trip blanks for each sample set. Analytical accuracy is typically assessed by examining the percent recoveries of surrogate compounds that are added to each sample (organic analyses only), and the percent recoveries of matrix spike compounds added to selected samples and laboratory blanks. Additionally, initial and continuing calibrations must be established and be within method control limits. Instrument and method analytical accuracy can then be determined for any sample set.

The data quality objectives for analytical precision, calculated as the percent recovery, will be statistically calculated laboratory control limits based on historical data. Should there be insufficient data to calculate limits, the validation default percent recovery limits will be used: 70-130% for organic analyses, and 75-125% (matrix spike recovery) and 80-120% (laboratory control spike (LCS) recovery) for inorganic analyses.

#### 6.5.3 Representativeness

Representativeness expresses the degree to which sample data accurately and precisely represent a characteristic of a population, parameter variations at a sampling point, or an environmental condition. Representativeness is a qualitative parameter which is most concerned with the proper design of the sampling program. Samples must be representative of the environmental media being sampled. Selection of sample locations and sampling procedures will incorporate consideration of obtaining the most representative sample possible.

Field and laboratory procedures will be performed in such a manner as to ensure, to the degree that is technically possible, that the data derived represents the in-place quality of the material sampled. Every effort will be made to ensure that chemical compounds will not be introduced into the sample via sample containers, handling, and analysis. Decontamination of sampling devices and digging equipment will be performed between samples. Analysis of field blanks, trip blanks, and method blanks will also be performed to monitor for potential sample contamination from field and laboratory procedures.

The assessment of representativeness also must consider the degree of heterogeneity in the material from which the samples are collected. Sampling heterogeneity will be evaluated during data validation through the analysis of coded field duplicate samples. The analytical laboratory will also follow acceptable procedures to assure the samples are adequately homogenized prior to taking aliquots for analysis, so the reported results are representative of the sample received.

Chain-of-custody procedures will be followed to document that contamination of samples has not occurred during container preparation, shipment, and sampling.

#### 6.5.4 Completeness

Completeness is defined as the percentage of measurements made which are judged to be valid. The QC objective for completeness is generation of valid data for at least 90% of the analyses requested

#### 6.5.5 Comparability

Comparability expresses the degree of confidence with which one data set can be compared to another. The comparability of all data collected for this project will be ensured by:

• Using identified standard methods for both sampling and analysis phases of this project.

- Requiring traceability of all analytical standards and/or source materials to the USEPA or National Institute of Standards and Technology (NIST).
- Requiring that all calibrations be verified with an independently traceable standard from a source other than that used for calibration.
- Using standard reporting units and reporting formats including the reporting of QC data.
- Performing a complete data validation on all of the analytical results, including the use of data qualifiers in all cases where appropriate.
- Requiring that all validation qualifiers be considered any time an analytical result is used for any purpose.

These steps will ensure all future users of either the data or the conclusions drawn from them will be able to judge the comparability of these data and conclusions.

#### 6.5.6 Sensitivity

Soil and water will be analyzed according to the methods listed in Table 5-2 (and subsequent updates).

## 7. Health and Safety Protocols

There are physical hazards which may be present at the Site associated with existing conditions and with investigation activities. Potential physical hazards include the following:

- Traffic Requires care when entering and leaving the Site.
- Overhead and underground utilities Overhead power lines near Site boundary. Potential underground utilities during drilling.
- Mechanical equipment including drill rigs and excavations.
- Slips, trips, and falls General site hazards. Debris inside and outside of buildings.
- Exposure to hazardous wildlife and plants.

Based upon investigations conducted to date the primary contaminants of concern include PAHs in surface soils, and metals and VOCs in subsurface soils and groundwater.

All staff will be bound by the provisions of the RI Work Plan Health and Safety Plan (HASP) (URS, 2016) and are required to participate in a preliminary project safety meeting to familiarize them with the anticipated hazards and respective onsite controls. The discussion will cover the entire HASP subject matter, putting emphasis on critical elements of the plan, such as the emergency response procedures, personal protective equipment, site control strategies, and monitoring requirements. In addition, daily tailgate safety meetings will be held to discuss: the anticipated scope of work, required controls, identify new hazards and controls, incident reporting, review the results of inspections, any lessons learned or concerns from the previous day.

## 8. Post-Remedial Action Plans

In addition to the remedial action activities described herein, the Decision Document also requires implementation of post-remedy groundwater monitoring (i.e., natural attenuation monitoring) and institutional and engineering controls once remedial construction is complete as part of the SMP for the Site.

## 8.1 Monitored Natural Attenuation (MNA)

Groundwater contamination remaining after active remediation will be addressed through an MNA groundwater monitoring section of the SMP. The elements of the groundwater monitoring program for MNA indicators may include the following elements (to be modified as needed in the final Site Management Plan [SMP]):

- Groundwater will be periodically monitored as determined by NYSDEC and Newell for site related contamination and for MNA indicators (as determined in development of the SMP) to provide an understanding of the biological breakdown of Site contaminants. The recommended monitoring frequency will be outlined in the SMP.
- Monitoring wells will be selected by Newell with the concurrence of NYSDEC such that the limits of groundwater contamination are contained within the monitoring well network.

MNA sampling results will be summarized as required by post-remedy monitoring plans in letter reports and submitted to the NYSDEC for concurrence.

## 8.2 Institutional and Engineering Controls

Institutional controls will be implemented in the form of an environmental easement for the controlled property that:

- Requires the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls.
- Will allow the use and development of the controlled property for commercial or industrial use.
- Restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or County DOH.
- Requires compliance with the Department approved SMP.

Elements of the remedial action which require ongoing operation, maintenance, or monitoring are considered engineering controls.

## 8.3 Site Management Plan

An SMP is required as part of the FER submission, which includes the following elements:

- An Institutional and Engineering Control Plan that identifies all use restrictions and engineering controls for the Site and details steps and media-specific requirements necessary to ensure institutional and/or engineering controls remain in place and effective.
  - An Excavation Plan which details the provisions for management of future excavations in areas of remaining contamination.
  - A provision for further investigation and remediation should any of the existing structures be demolished, or if the subsurface is otherwise made accessible. The nature and extent of contamination in areas where access was previously limited or unavailable will be investigated pursuant to a plan approved by the Department. Based on the investigation results and the Department determination of the need for a remedy, a

RAWP will be developed for the final remedy for the site, including removal and/or treatment of any source areas to the extent feasible. Citizen Participation Plan (CPP) activities will continue through this process. Any necessary remediation will be completed prior to, or in association with, redevelopment.

- Descriptions of the provisions of the environmental easement including land use and groundwater use restrictions.
- A provision for evaluation of the potential for soil vapor intrusion for any new buildings developed onsite, including provision for implementing actions recommended to address exposures related to soil vapor intrusion.
- Provisions for the management and inspection of the identified engineering controls.
- Maintaining site access controls and Department notification.
- Periodic reviews and certification of the institutional and/or engineering controls.
- A Monitoring Plan to assess the performance and effectiveness of the remedy, including the MNA injections. The plan includes, but may not be limited to:
  - Monitoring of groundwater to assess the performance and effectiveness of the remedy.
  - A schedule of monitoring and frequency of submittals to the Department.
  - Monitoring and /or control for vapor intrusion for any buildings developed on the site as required.

A copy of the SMP will be provided to the appropriate property owners.

## 9. Schedule

The anticipated schedule for remedial activities is included in Figure 9-1.

Pre-planning and coordination for the remedial activities will begin upon NYSDEC approval of this RAWP.

A Final Engineering Report will be prepared approximately 60 days following completion of the surface soil excavations and in-situ groundwater remedy injections described herein. As noted in **Section 5.3.4**, quarterly post-injection performance monitoring reports will be provided to NYSDEC as separate, interim communications until incorporated into the SMP's groundwater monitoring program.

## 10. References

LaBella 2021. Predesign Investigation Work Plan, Phase I: Eastern Machining Building Demolition & Surface Cover. NYSDEC BCP No. C837018. July.

New York State Department of Environmental Conservation (NYSDEC) 1998. Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Division of Water Technical and Operational Guidance Series 1.1.1 (TOGS 1.1.1). October; and addenda dated January 1999, April 2000, and June 2004.

NYSDEC 2006. Title 6 New York State Codes, Rules and Regulations, Subpart 375-6, Remedial Program Soil Cleanup Objectives. December.

NYSDEC 2010. CP-51 Soil Cleanup Guidance. October.

NYSDEC 2010. DER-10/Technical Guidance for Site Investigation and Remediation. May.

NYSDEC 2021. Decision Document, Former Bernzomatic Facility, Brownfield Cleanup Program, Medina, Orleans County, Site No. C837018. February.

URS Corporation (URS) 2016. Remedial Investigation Work Plan for the Former Bernzomatic Facility. NYSDEC BCP Site No. C837018. November.

URS 2018. Remedial Investigation Report for the Former Bernzomatic Facility. NYSDEC BCP Site No. C837018. August.

URS 2020. Final Alternatives Analysis Report. NYSDEC BCP Site No. C837018. October.

# Tables

#### Table 5-1

#### Sampling Matrix for Analytical Parameters Remedial Action Work Plan Former Bernzomatic Facility Medina, Orleans County, New York

	Parameters									
					Groundwater					Surface Soil
Location	VOCs (8260C)	Total Fe, Total Mn <sup>(1)</sup> (6010C)	Dissolved Fe, Dissolved Mn <sup>(1)</sup> (6010C)	Alkalinity <sup>(1)</sup> (2320-B)	Chloride/ Nitrate/ Sulfate <sup>(1)</sup> (300.0)	Methane/ Ethane/ Ethene/ CO2 <sup>(1)</sup> (RSK-175)	Sulfide (376.1)	TOC (9060A)	Field Parameters <sup>(2)</sup>	SVOCs (PAHs only) (8270D)
MW-05R	1	1	1	1	1	1	1	1	1	· · · · ·
MW-07	1	1	1	1	1	1	1	1	1	
MW-09	1	1							1	
MW-14	1	1							1	
MW-16	1	1							1	
MW-17	1	1							1	
MW-19R	1	1	1	1	1	1	1	1	1	
MW-21	1	1	1	1	1	1	1	1	1	
MW-22	1	1	1	1	1	1	1	1	1	
MW-23	1	1							1	
Monitoring Subtotal	10	10	5	5	5	5	5	5	10	
Surface Soil Excavations			-	-	-	-	-	-		
Confirmation Sampling <sup>(3)</sup>										
EA1-Wside										1
EA1-Nside										1
EA1-Eside	-									1
EA1-Bot	4									1
EA1-Bot EA2-Wside										
										1
EA2-Nside										1
EA2-Eside										1
EA2-Sside										1
EA2-Bot										1
EA3-Wside										1
EA3-Nside										1
EA3-Eside										1
EA3-Sside										1
EA3-Bot	1									1
EA4-Wside	1									1
EA4-Eside										1
EA4-Sside										1
EA4-Bot										1
Subtotal Surface Soil										
Confirmation Samples <sup>(3)</sup>										18
Waste Characterization <sup>(4)</sup>										10
QA/QC										
Duplicate (5)	1	1	1	1	1	1	1	1		1
Duplicate **	1	1	1	1	1	1	1	1		1
Matrix Spike (5)	1	1	1	1	1	1	1	1		1
Matrix Spike Duplicate <sup>(5)</sup>	1	1	1	1	1	1	1	1		1
Trip Blank	1									
Rinse Blank <sup>(6)</sup>	1	1	1	1	1	1	1	1		1
Total Per Sampling Event <sup>(7)</sup>	15	14	9	9	9	9	9	9	10	4

Notes:

(1) Total and Dissolved Fe and Mn and MNA parameters to be collected from wells within and immediately adjacent to in-situ treatment areas.

(2) Field collected parameters will include dissolved oxygen, electrical conductivity, oxidation-reduction potential, pH, temperature, and turbidity.

(3) One bottom sample and up to four sidewall samples from each of the four surface soil excavation areas.

(4) Waste characterization parameters to be determined based on selected dispsoal facility.

(5) Duplicates, Matrix Spike, and Matrix Spike Duplicate samples will be collected at a rate of 1 per 20 samples.

(6) Rinse Blanks will be collected at a rate of 1 per sampling event.

(7) Four quarterly post-injection performance monitoring events are planned for groundwater.

VOC - volatile organic compound SVOC - semi-volatile organic compound PAH - polycyclic aromatic hydrocarbon QA/QC - quality assurance/quality control MW - monitoring well TOC - Total Organic Carbon

#### Table 5-2

#### Analytical Specifications - Sample Bottle, Volume, Preservation, and Holding Time Summary Remedial Action Work Plan Former Bernzomatic Facility Medina, Orleans County, New York

			Sample Bottles <sup>(2)</sup>		Minimum		Holding Time (4)				
Matrix/Analysis	Sample Prep Method <sup>(1)</sup>	Analytical Method (1)	Mat'l	Size	Qty	Source	Vol Rqd	Preservation <sup>(3)</sup>	Extraction	Analysis	Comment
Aqueous Samples											
Volatile Organics	SW-846 5030C	SW-846 8260C	Glass	40 mL	3	Lab	40 mL	HCI to pH ≤ 2	NA	14 days	7 days if not preserved
Total Metals (Fe, Mn)	SW-846 3005A	SW-846 6010C	HDPE	250 mL	1	Lab	200 mL	$HNO_3$ to pH $\leq 2$	NA	180 days	28 days for Mercury
Dissolved Metals (Fe, Mn)	SW-846 3005A	SW-846 6010C	HDPE	250 mL	1	Lab	200 mL	$HNO_3$ to $pH \le 2$	NA	180 days	
Alkalinity	SM 2320-B	SM 2320-B	HDPE	250 mL	1	Lab	100 mL	None	NA	14 days	
Chloride/Nitrate/Sulfate	EPA 300.0	EPA 300.0	HDPE	125 mL	1	Lab	50 mL	None	NA	28 days	48 Hr. Nitrate
Methane/Ethane/Ethene/CO2	RSK-175	RSK-175	Glass	40 mL	3	Lab	40 mL	HCI to pH ≤ 2	NA	14 days	
Sulfide	EPA 376.1	EPA 376.1	HDPE	60 ml	1	Lab	60 ml	ZnAcetate/NaOH pH>9	NA	7 days	
Total Organic Carbon	SW-846 9060A	SW-846 9060A	Glass	40 mL	2	Lab	40 mL	HCI to pH ≤ 2	NA	28 days	
Subsurface Soil Samples											
Semi-volatile Organics (PAHs only)	SW-846 3500	SW-846 8270D	Glass	8 oz	1	Lab	50 g	None	14	40	
Waste Characterization Non-Aqueous Samples (Potential as may be required by Disposal Facility)											
Waste Characterization Aqueous Samples (Potential as may be required by Disposal Facility)											

Notes:

(1) More recent versions of SW-846, EPA, and SM methods may be used subject to URS approval.

(2) Bottles typical.

(3) All samples for chemical analysis will be held at 4 degrees C in addition to any chemical preservation required.

(4) Holding time calculated from day of collection, unless noted as being from time of extraction.

SW-846: Test Methods for Evaluating Solid Waste, Physical/Chemical Methods. USEPA SW-846. Complete through Update IV, March 2009.

EPA - Compendium of Methods for the Determination of Toxic Organics in Air, Second Edition (EPA/625/R-96/010b; 1999).

SM - Standard Methods for the Examination of Water and Wastewater. AWWA. 20th Edition, 1998.

RSK - R.S. Kerr USEPA Laboratory, Ada, OK

g - gram

oz - ounce HDPE - high-density polyethylene NA - not applicable HCL - hydrochloric acid HNO<sub>3</sub> - nitric acid mL- milliliter PAH - polycyclic aromatic hydrocarbon

# Figures

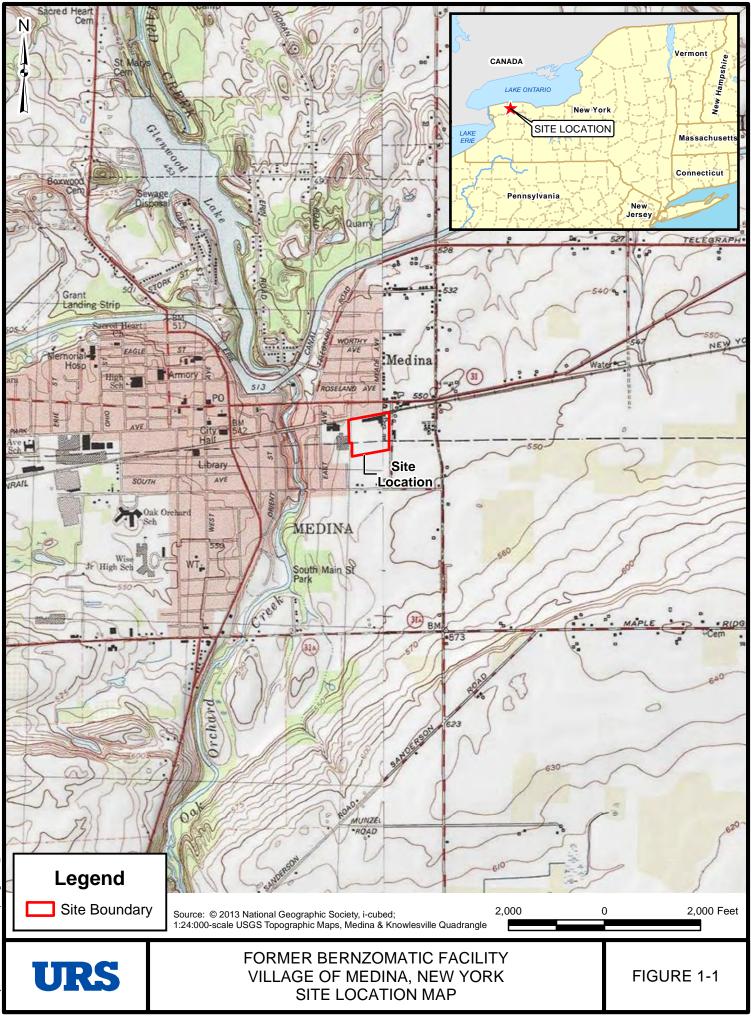






FIGURE 2-1

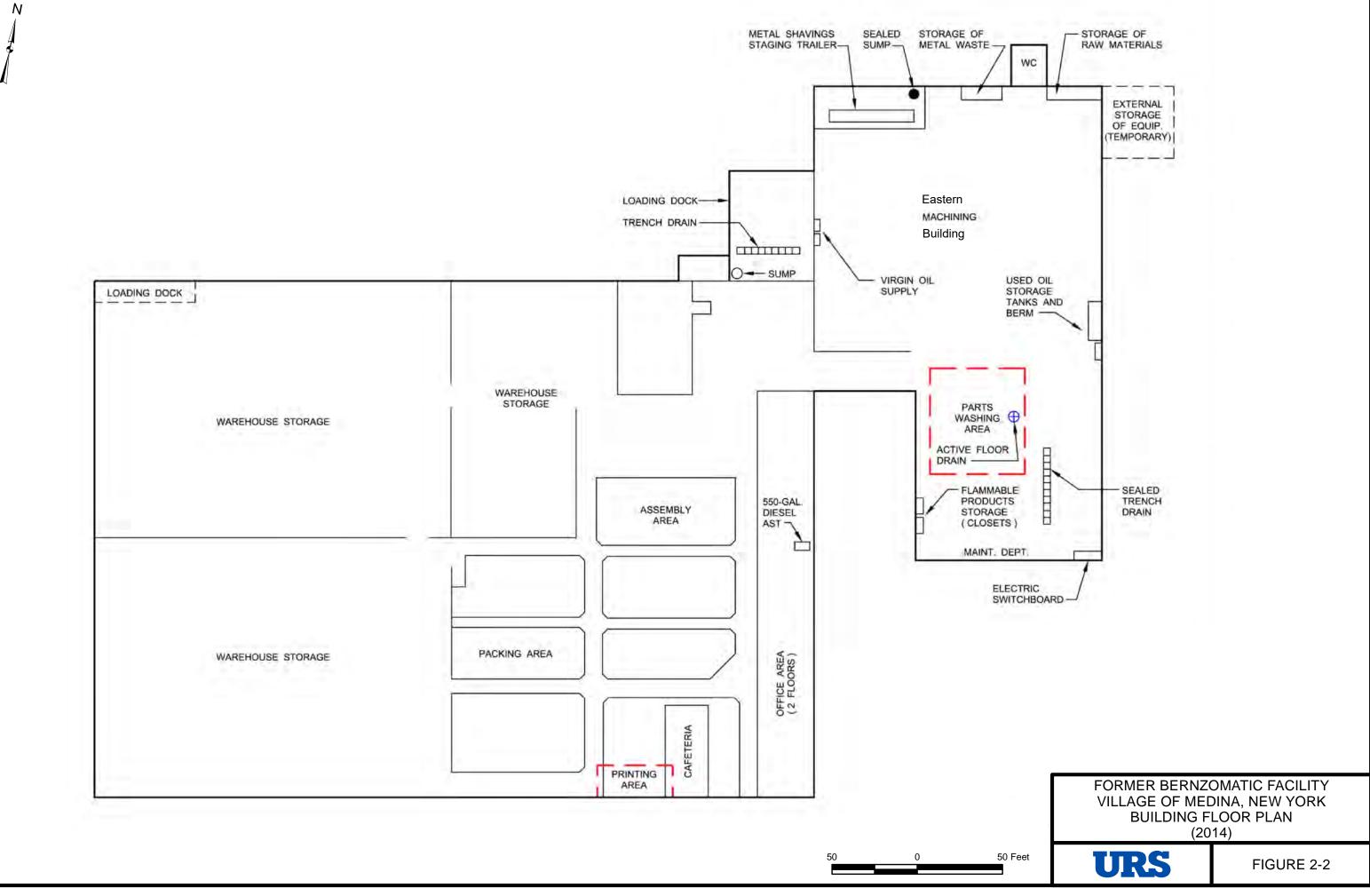
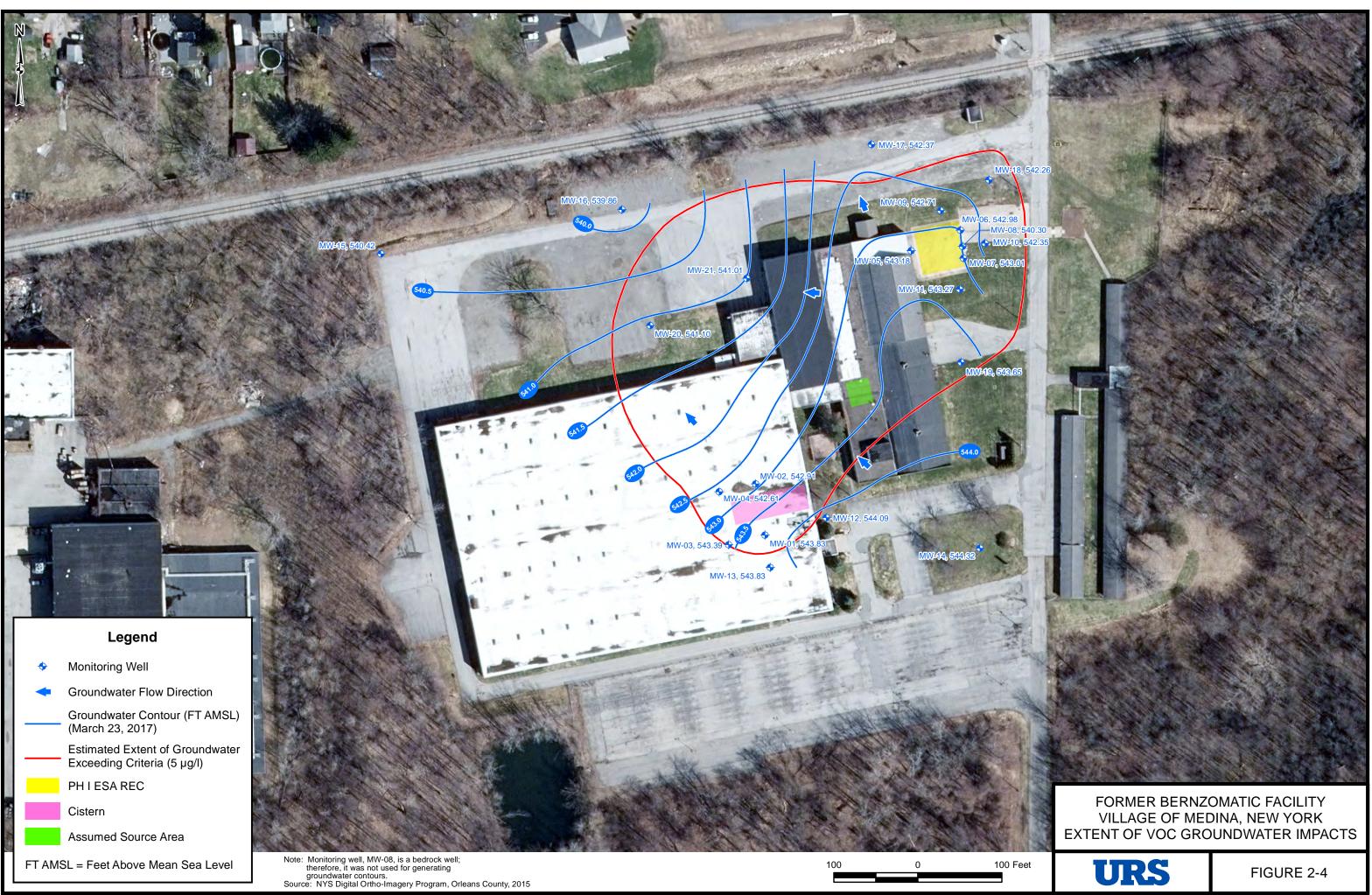
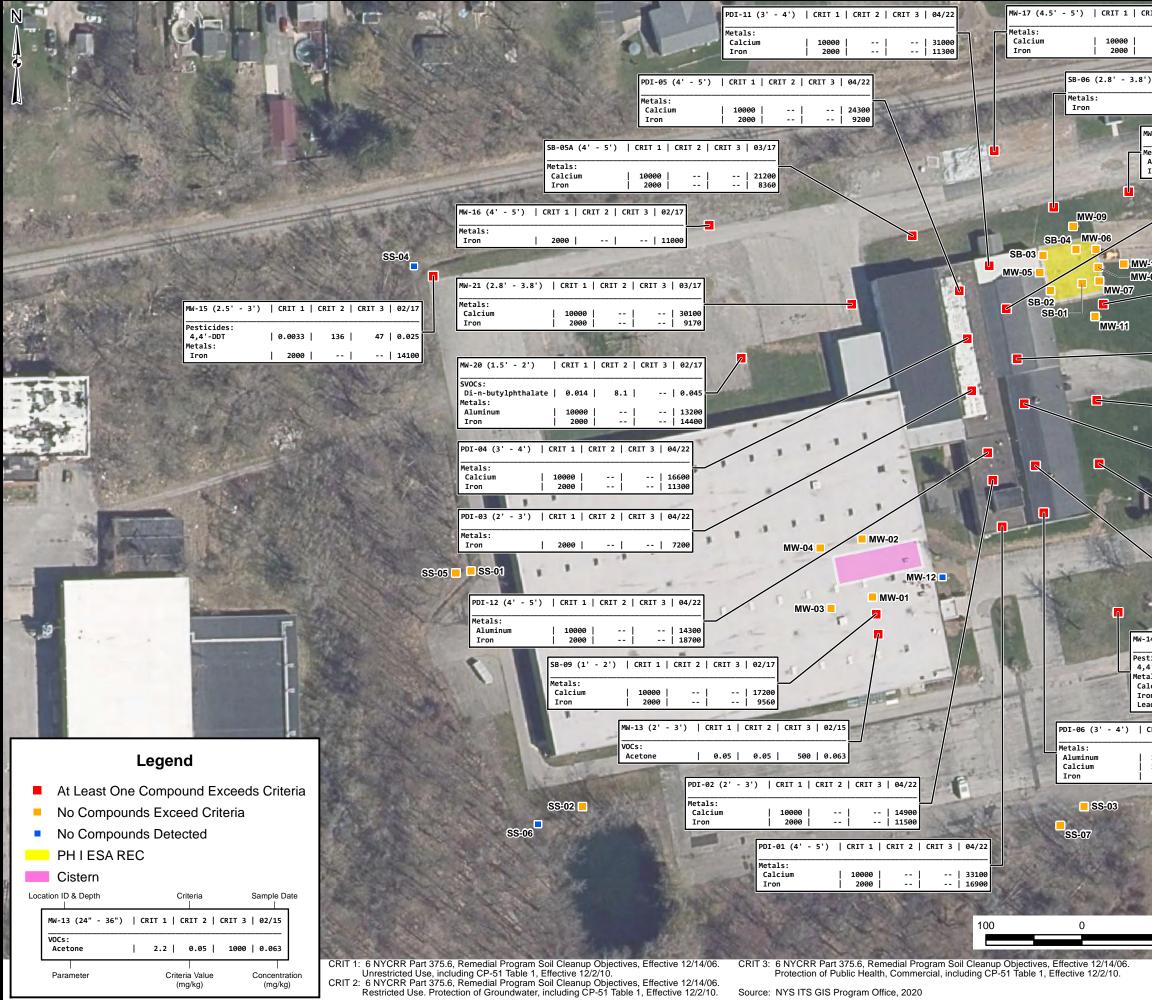






FIGURE 2-3





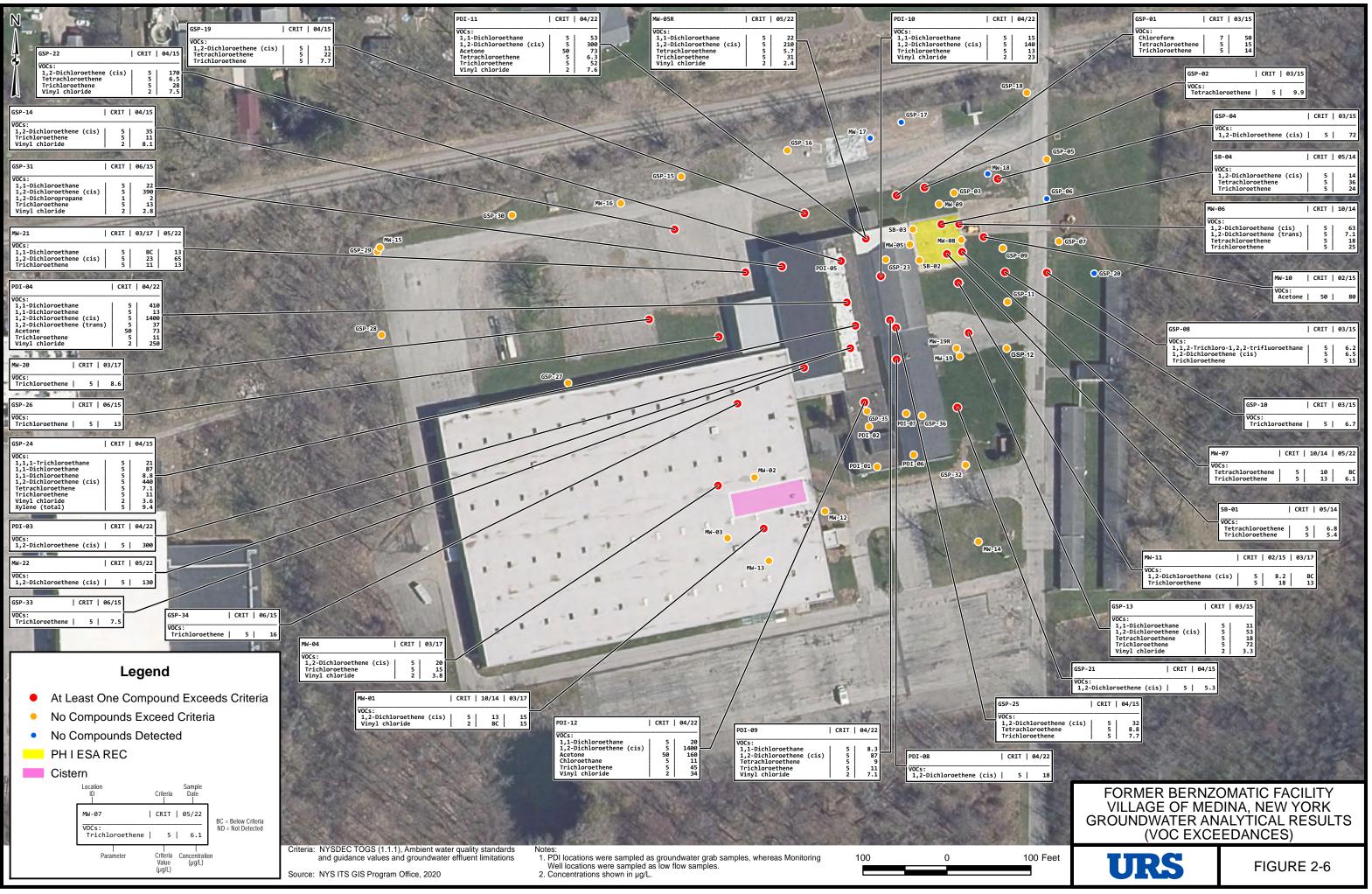
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	-   9310	120	815		a care	
	N. P. Martin					
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Metals:						1000
Calciu Iron	n	10000   2000			32400   10100	
	07	2000	COLUMN 1	01/05/58/66	1 10100	
-10	SB-07 (3'	- 4')   C	RIT 1	CRIT 2	CRIT 3	02/17
-08	Metals:					
	Aluminum		10000	!		11600
10000	Iron		2000			10900
	PDI-09 (2'	- 3')	CRIT 1	CRIT 2	CRIT 3	04/22
1						
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	Metals:					
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	PDI-08 (4'	- 5')	CRTT 1	CRIT 2	CRTT 3	04/22
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	Metals: Iron	I	2000			9440
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	PDI-07 (2'	- 3')	CRIT 1	CRIT 2	CRIT 3	04/22
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	Iron	10000	2000		ALC: NAME	9340
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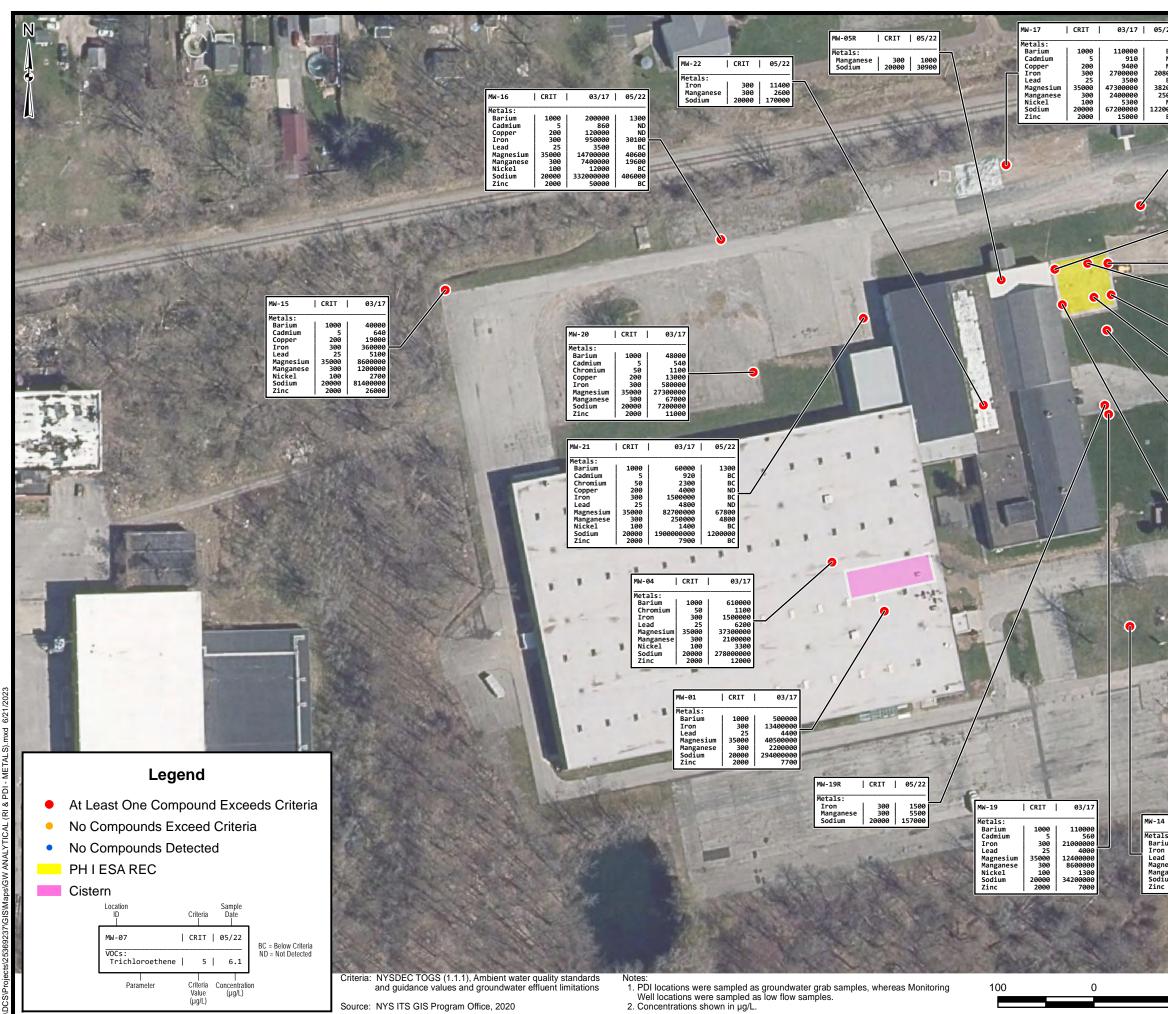
FORMER BERNZOMATIC FACILITY VILLAGE OF MEDINA, NEW YORK SOIL ANALYTICAL RESULTS



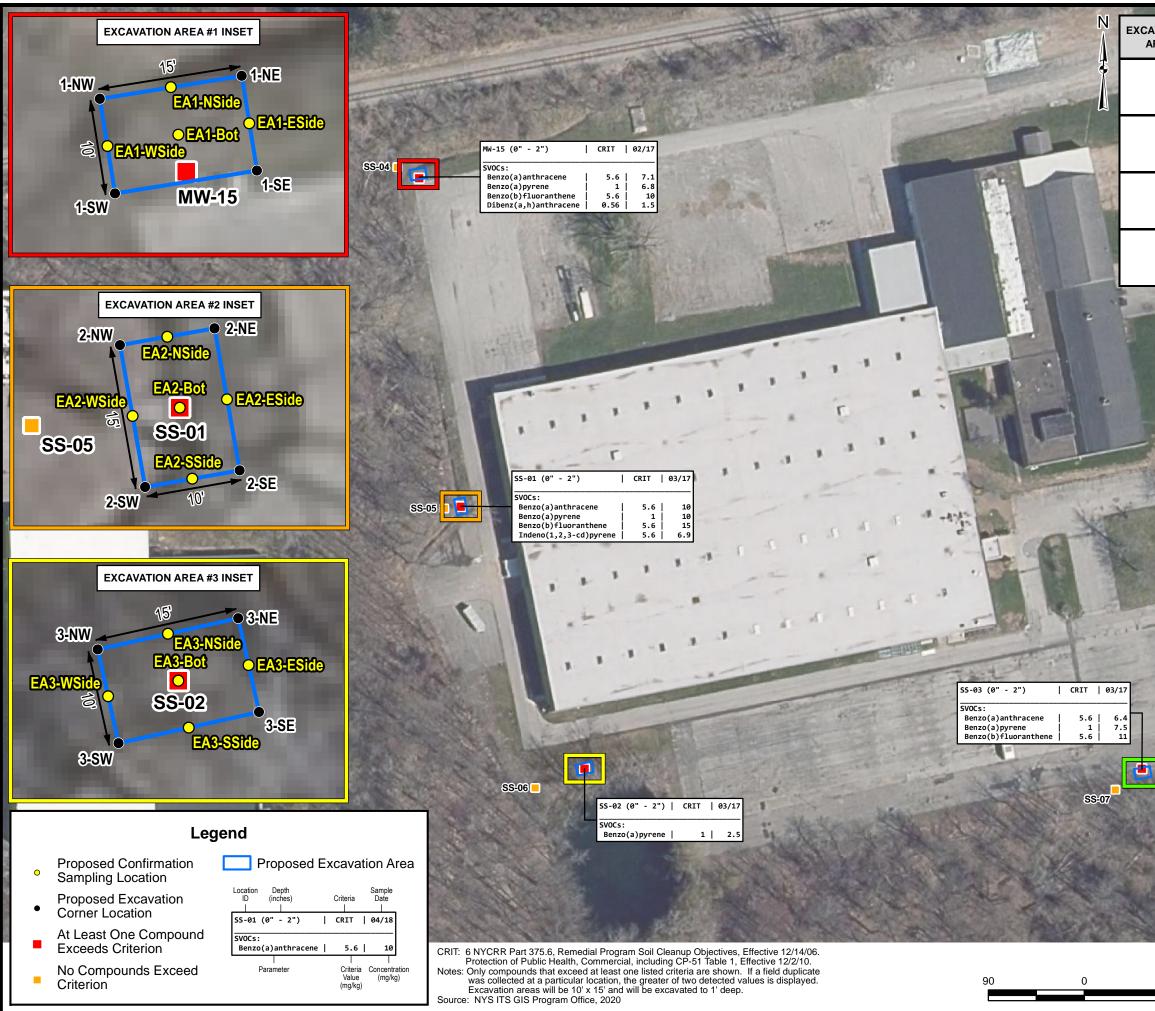
100 Feet

FIGURE 2-5

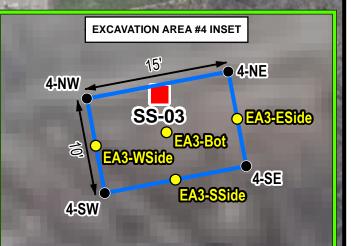




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			Iron Lead Magnesium 35 Sodium 26 Zinc 2	HIT         03/17           1000         33000           300         260000           300         30000           300         30000           3000         3700000           2000         4800           CRIT         05/14           25         48000
			Barium Chromium Lead	1000         909000           50         122000           25         63000           CRIT   05/22           300         820           300         2100
			Metals: Arsenic Barium Cadmium Chromium Lead MW-11   CRIT   6 Metals:	RIT         05/14           25         172000           0000         1850000           5000         25600           50         452000           25         224000
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AVATION AREA	CORNER LOCATION ID	NORTHING	EASTING	LATITUDE	LONGITUDE
	1-SW	1173151.798	1203271.628	43.219526	-78.377069
1	1-NW	1173161.672	1203270.044	43.219553	-78.377075
I	1-NE	1173164.047	1203284.855	43.219560	-78.377020
	1-SE	1173154.173	1203286.438	43.219532	-78.377014
	2-SW	1172838.620	1203314.486	43.218667	-78.376911
2	2-NW	1172853.392	1203311.880	43.218707	-78.376921
2	2-NE	1172855.129	1203321.728	43.218712	-78.376884
	2-SE	1172840.357	1203324.334	43.218671	-78.376874
	3-SW	1172594.758	1203427.947	43.217997	-78.376488
3	3-NW	1172604.521	1203425.783	43.218023	-78.376496
3	3-NE	1172607.767	1203440.427	43.218032	-78.376441
	3-SE	1172598.004	1203442.592	43.218005	-78.376433
	4-SW	1172590.980	1203951.350	43.217983	-78.374524
4	4-NW	1172600.805	1203949.489	43.218010	-78.374531
4	4-NE	1172603.598	1203964.226	43.218017	-78.374476
	4-SE	1172593.773	1203966.088	43.217990	-78.374469
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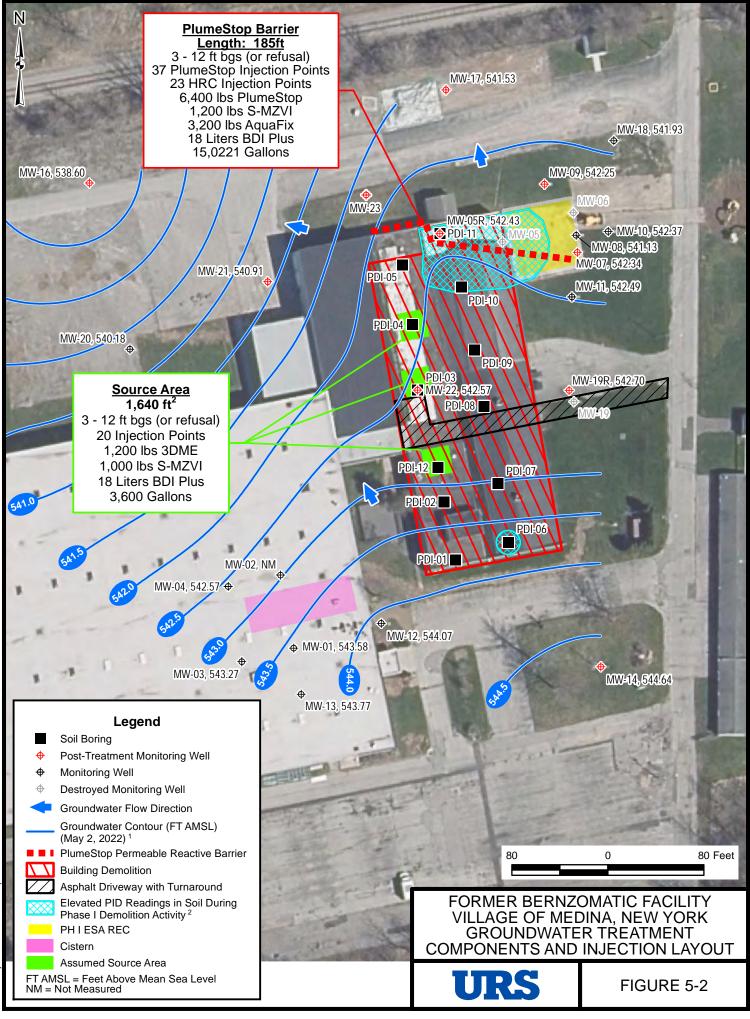


FORMER BERNZOMATIC FACILITY VILLAGE OF MEDINA, NEW YORK SURFACE SOIL EXCAVATION PLAN





FIGURE 5-1



#### Figure 9-1

#### Remedial Action Work Plan - Project Schedule Former Bernzomatic Facility BCP Site Medina, Orleans County, New York

	Anticipated	2023				2024														
Activity	Completion	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr	May	Jun	Jul	Aug	Sep
Submit draft RAWP for NYSDEC Review	3/31/2023																			
NYSDEC Review of draft RAWP	5/22/2023																			
Submit Final RAWP	7/6/2023																			
NYSDEC Approval Final RAWP	7/31/2023																			
Perform DVT (In-situ remedy)	8/15/2023																			
Submit DVT Letter Report (In-situ remedy)	8/30/2023																			
NYSDEC Approval of DVT Letter Report (In-situ remedy)	9/15/2023																			
Commencement of Remediation Work	9/18/2023																			
Completion of Remediation Work	10/6/2023																			
Prepare draft FER	12/1/2023																			
NYSDEC Review of draft FER	1/17/2024																			
Submit Final FER	2/28/2024																			
NYSDEC Approval of Final FER	3/31/2024																			
Prepare Environmental Easement Package	12/31/2023																			
Prepare draft SMP	4/13/2024																			
NYSDEC Review of draft SMP	5/28/2024																			
Submit Final SMP	6/30/2024																			
NYSDEC Approval of Final SMP	7/31/2024																			
Certificate of Completion	9/30/2024																			

#### Notes:

BCP - Brownfield Cleanup Program

DVT - Design Verification Testing

FER - Final Engineering Report

SMP - Site Management Plan

RAWP - Remedial Action Work Plan

# Attachment 1 – NYSDEC Decision Document (February 2021)

# **DECISION DOCUMENT**

Former Bernzomatic Facility Brownfield Cleanup Program Medina, Orleans County Site No. C837018 February 2021



Prepared by Division of Environmental Remediation New York State Department of Environmental Conservation

# **DECLARATION STATEMENT - DECISION DOCUMENT**

Former Bernzomatic Facility Brownfield Cleanup Program Medina, Orleans County Site No. C837018 February 2021

#### **Statement of Purpose and Basis**

This document presents the remedy for the Former Bernzomatic Facility site, a brownfield cleanup site. The remedial program was chosen in accordance with the New York State Environmental Conservation Law and Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York (6 NYCRR) Part 375.

This decision is based on the Administrative Record of the New York State Department of Environmental Conservation (the Department) for the Former Bernzomatic Facility site and the public's input to the proposed remedy presented by the Department.

#### **Description of Selected Remedy**

The elements of the selected remedy are as follows:

1. Remedial Design

A remedial design program will be implemented to provide the details necessary for the construction, operation, optimization, maintenance, and monitoring of the remedial program. Green remediation principles and techniques will be implemented to the extent feasible in the design, implementation, and site management of the remedy as per DER-31. The major green remediation components are as follows:

- Considering the environmental impacts of treatment technologies and remedy stewardship over the long term;
- Reducing direct and indirect greenhouse gases and other emissions;
- Increasing energy efficiency and minimizing use of non-renewable energy;
- Conserving and efficiently managing resources and materials;
- Reducing waste, increasing recycling and increasing reuse of materials which would otherwise be considered a waste;
- Maximizing habitat value and creating habitat when possible;
- Fostering green and healthy communities and working landscapes which balance ecological, economic and social goals;
- Integrating the remedy with the end use where possible and encouraging green and sustainable re-development; and
- Additionally, to incorporate green remediation principles and techniques to the extent feasible in the future development at this site, any future on-site buildings will include, at a minimum, a 20-mil vapor barrier/waterproofing membrane on the foundation to

improve energy efficiency as an element of construction.

# 2. Excavation

The existing on-site eastern machining building(s) will be demolished and the nature and extent of contamination in this area, where access was previously limited or unavailable, will be immediately and thoroughly investigated pursuant to a plan approved by the Department. Based on the investigation results and the Department's determination of the need for a remedy, the Remedial Action Work Plan (RAWP) will include removal and/or treatment of any source areas to the extent feasible.

At a minimum, all soils in the upper foot which exceed the commercial use Soil Cleanup Objectives (SCOs) will be excavated and transported off-site for disposal. Approximately 21 cubic yards of contaminated soil will be removed from the site.

## 3. Backfill

Clean fill meeting the requirements of 6 NYCRR Part 375-6.7(d) will be brought in to replace the excavated soil and establish the designed grades at the site.

## 4. Cover System

A site cover will be required to allow for commercial or industrial use of the site in areas where the upper one foot of exposed surface soil will exceed the applicable SCOs. Where a soil cover is to be used it will be a minimum of one foot of soil placed over a demarcation layer, with the upper six inches of soil of sufficient quality to maintain a vegetative layer. Soil cover material, including any fill material brought to the site, will meet the SCOs for cover material for the use of the site as set forth in 6 NYCRR Part 375-6.7(d). Substitution of other materials and components may be allowed where such components already exist or are a component of the tangible property to be placed as part of site redevelopment. Such components may include, but are not necessarily limited to: pavement, concrete, paved surface parking areas, sidewalks, building foundations and building slabs.

### 5. Enhanced Bioremediation

Monitoring will be required up-gradient, down-gradient, and within the treatment zone. Monitoring will be conducted for volatile organic compounds (VOCs) and metals up-gradient, down-gradient, and within the treatment zone. To evaluate the enhanced bioremediation remedy, the treatment zone will also be monitored for the following: dissolved-oxygen, nitrate, iron, sulfate, alkalinity, oxidation-reduction potential, pH, chloride, and methane. A baseline groundwater monitoring program will be implemented to provide groundwater quality data prior to in-situ enhanced bioremediation.

In-situ enhanced biodegradation will be employed to treat chlorinated VOCs in groundwater in the area of the eastern machining building. The biological breakdown of contaminants through anaerobic reductive dechlorination will be enhanced by the placement of bacteria and nutrients into the subsurface to promote microbe growth. The bacteria and nutrients will be placed into the subsurface via injection points from 3 to 10 feet. In the event that appropriate aquifer pH (6-8) and total organic carbon (TOC) concentration (greater than 50 mg/l) cannot be simultaneously

maintained, the injection solution will be buffered with sodium bicarbonate to counteract the organic acids generated from biological activity.

## 6. Engineering and Institutional Controls

Imposition of an institutional control in the form of an environmental easement and a Site Management Plan, as described below, will be required. The remedy will achieve a Track 4 commercial cleanup at a minimum and will include a site cover.

Imposition of an institutional control in the form of an environmental easement for the controlled property which will:

- require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);
- allow the use and development of the controlled property for commercial or industrial use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;
- restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or County Department of Health; and
- require compliance with the Department approved SMP.

## 7. Site Management Plan

An SMP is required, which includes the following:

a. an Institutional and Engineering Control Plan that identifies all use restrictions and engineering controls for the site and details the steps and media-specific requirements necessary to ensure the following institutional and/or engineering controls remain in place and effective:

Institutional Controls: The environmental easement discussed in paragraph 6 above.

Engineering Controls: The soil cover discussed in paragraph 4 above.

This plan includes, but may not be limited to:

- an Excavation Plan which details the provisions for management of future excavations in areas of remaining contamination;
- descriptions of the provisions of the environmental easement including any land use, and/or groundwater use restrictions;
- a provision for evaluation of the potential for soil vapor intrusion for any occupied buildings on the site, including provision for implementing actions recommended to address exposures related to soil vapor intrusion;
- a provision that should a building foundation or building slab be removed in the future, a cover system consistent with that described above will be placed in any areas where the upper one foot of exposed surface soil exceeds the applicable SCOs;
- provisions for the management and inspection of the identified engineering controls;
- o maintaining site access controls and Department notification; and
- the steps necessary for the periodic reviews and certification of the institutional and/or engineering controls.

- b. a Monitoring Plan to assess the performance and effectiveness of the remedy. The plan includes, but may not be limited to:
  - monitoring of groundwater and soil vapor intrusion to assess the performance and effectiveness of the remedy;
  - o a schedule of monitoring and frequency of submittals to the Department; and,
  - monitoring for vapor intrusion for any buildings on the site, as may be required by the Institutional and Engineering Control Plan discussed above.

## **Declaration**

The remedy conforms with promulgated standards and criteria that are directly applicable, or that are relevant and appropriate and takes into consideration Department guidance, as appropriate. The remedy is protective of public health and the environment.

02/10/21

Date

Michael Cruden

Michael Cruden, Director Remedial Bureau E

# **DECISION DOCUMENT**

Former Bernzomatic Facility Medina, Orleans County Site No. C837018 February 2021

## SECTION 1: SUMMARY AND PURPOSE

The New York State Department of Environmental Conservation (the Department), in consultation with the New York State Department of Health (NYSDOH), has selected a remedy for the above referenced site. The disposal of contaminants at the site has resulted in threats to public health and the environment that would be addressed by the remedy. The disposal or release of contaminants at this site, as more fully described in this document, has contaminated various environmental media. Contaminants include hazardous waste and/or petroleum.

The New York State Brownfield Cleanup Program (BCP) is a voluntary program. The goal of the BCP is to enhance private-sector cleanups of brownfields and to reduce development pressure on "greenfields." A brownfield site is real property, the redevelopment or reuse of which may be complicated by the presence or potential presence of a contaminant.

The Department has issued this document in accordance with the requirements of New York State Environmental Conservation Law and 6 NYCRR Part 375. This document is a summary of the information that can be found in the site-related reports and documents.

### SECTION 2: <u>CITIZEN PARTICIPATION</u>

The Department seeks input from the community on all remedies. A public comment period was held, during which the public was encouraged to submit comment on the proposed remedy. All comments on the remedy received during the comment period were considered by the Department in selecting a remedy for the site. Site-related reports and documents were made available for review by the public at the following document repository:

DECInfo Locator - Web Application https://gisservices.dec.ny.gov/gis/dil/index.html?rs=C837018

Lee-Whedon Memorial Library 620 West Ave. Medina, NY 14103 Phone: 858-789-3430

### **Receive Site Citizen Participation Information By Email**

Please note that the Department's Division of Environmental Remediation (DER) is "going paperless" relative to citizen participation information. The ultimate goal is to distribute citizen participation information about contaminated sites electronically by way of county email listservs. Information will be distributed for all sites that are being investigated and cleaned up in a particular county under the State Superfund Program, Environmental Restoration Program, Brownfield Cleanup Program and Resource Conservation and Recovery Act Program. We the public sign for one or more county listservs encourage to up at http://www.dec.ny.gov/chemical/61092.html

# SECTION 3: SITE DESCRIPTION AND HISTORY

### Site Location:

The site is comprised of two adjoining lots located at 1 Bernzomatic Drive, within the Village of Medina. The northern lot spans Bernzomatic Drive and is located in the Town of Ridgeway. The adjoining southern lot also spans Bernzomatic Drive and is located in the Town of Shelby.

#### Site Features:

Improvements on the 14.49-acre site include two connected buildings (the western main manufacturing building and the eastern machining building) totaling approximately 160,000 square feet. These buildings are located on the west side of Bernzomatic Drive. Truck and trailer parking areas are located to the north of the main manufacturing building, and employee and visitor parking is located to its south. Areas west and south of the main manufacturing building are generally wooded and vacant as a buffer zone to neighboring residential and commercial properties. Roof drains from the building discharge into a cistern system which stores water underneath the building as a backup supply for fire suppression. Overflow from the cistern discharges to a storm water pond located on the overall former Bernzomatic facility, include an approximately 4,000 square foot engineering laboratory and an approximately 8,000 square foot storage building on the east side of Bernzomatic Drive. A small ancillary fire pump house building is also present just north and outside the northeast corner of the site boundary. The topography of the site is generally flat and surrounding properties are of similar elevation.

### Current Zoning and Land Use:

The site is located in zoning district I (Industrial District) and is currently utilized for storage, material assembly, packaging, and shipping. Anticipated future uses are limited to commercial and industrial activities.

#### Past Use of Site:

The subject property has a history of industrial use beginning in approximately 1915, including canneries and food processing companies. These uses involved process areas including a pipe shed, machine shop, and oil house that may have involved the use of hazardous materials and/or petroleum. In addition, the subject property historically utilized hazardous substances including solvents and oils. Records indicate that parts cleaning operations were once performed using solvent degreasing agents, particularly in the eastern machining building. Recent site operations involved the machining, assembly, packing, and shipping of hand-held torches by Bernzomatic, a division of Newell Rubbermaid Corporation. In 2011, Newell Rubbermaid sold the business

(Newell Rubbermaid maintained ownership of the property) to Worthington Industries who continued manufacturing torches until July 2014. Newell Rubbermaid completed a preliminary environmental investigation of the site in 2014. The industrial chemical, acetone, was detected at elevated levels in the soil and various chlorinated and volatile organic compounds were detected at elevated levels in the groundwater. Based on this information, Newell Rubbermaid notified the DEC and submitted an application to enter into the Brownfield Cleanup Program.

## Site Geology and Hydrogeology

The site is located in the Erie-Ontario Lowlands Physiographic Province. The site is underlain by sand and silt mixtures with some gravel encountered just beneath the concrete surface. Overburden thickness at the site varies from approximately 9 feet on the east side of the main building to approximately 12 feet near the cistern beneath the main manufacturing building. Bedrock at the site consists of a 10-foot-thick layer of Irondequoit Limestone over Medina Sandstone.

Depth to groundwater in the overburden ranges from 0.5 to 6.7 feet below ground surface. Overall groundwater flow is to the northwest.

A site location map is attached as Figure 1 and a site boundary map is attached as Figure 2.

# SECTION 4: LAND USE AND PHYSICAL SETTING

The Department may consider the current, intended, and reasonably anticipated future land use of the site and its surroundings when evaluating a remedy for soil remediation. For this site, alternatives that restrict the use of the site to commercial use as described in Part 375-1.8(g) were evaluated in addition to an alternative which would allow for unrestricted use of the site.

A comparison of the results of the Remedial Investigation (RI) to the appropriate standards, criteria and guidance values (SCGs) for the identified land use and the unrestricted use SCGs for the site contaminants is available in the RI Report.

# SECTION 5: ENFORCEMENT STATUS

One or more of the Applicants under the Brownfield Cleanup Agreement is a Participant. The Participant has an obligation to address on-site and off-site contamination. Accordingly, no enforcement actions are necessary.

# SECTION 6: SITE CONTAMINATION

# 6.1: <u>Summary of the Remedial Investigation</u>

A remedial investigation (RI) serves as the mechanism for collecting data to:

- characterize site conditions;
- determine the nature of the contamination; and
- assess risk to human health and the environment.

The RI is intended to identify the nature (or type) of contamination which may be present at a site and the extent of that contamination in the environment on the site, or leaving the site. The RI reports on data gathered to determine if the soil, groundwater, soil vapor, indoor air, surface water or sediments may have been contaminated. Monitoring wells are installed to assess groundwater and soil borings or test pits are installed to sample soil and/or waste(s) identified. If other natural resources are present, such as surface water bodies or wetlands, the water and sediment may be sampled as well. Based on the presence of contamination. Data collected in the RI influence the development of remedial alternatives. The RI report is available for review in the site document repository and the results are summarized in section 6.3.

The analytical data collected on this site includes data for:

- groundwater
- surface water
- soil
- sediment
- indoor air
- sub-slab vapor

# 6.1.1: Standards, Criteria, and Guidance (SCGs)

The remedy must conform to promulgated standards and criteria that are directly applicable or that are relevant and appropriate. The selection of a remedy must also take into consideration guidance, as appropriate. Standards, Criteria and Guidance are hereafter called SCGs.

To determine whether the contaminants identified in various media are present at levels of concern, the data from the RI were compared to media specific SCGs. The Department has developed SCGs for groundwater, surface water, sediments, and soil. The NYSDOH has developed SCGs for drinking water and soil vapor intrusion. For a full listing of all SCGs see: <u>http://www.dec.ny.gov/regulations/61794.html</u>

# 6.1.2: <u>RI Results</u>

The data have identified contaminants of concern. A "contaminant of concern" is a contaminant that is sufficiently present in frequency and concentration in the environment to require evaluation for remedial action. Not all contaminants identified on the property are contaminants of concern. The nature and extent of contamination and environmental media requiring action are summarized below. Additionally, the RI Report contains a full discussion of the data. The contaminant(s) of concern identified at this site is/are:

dibenz[a,h]anthracene	cadmium
benzo(a)pyrene	chromium
benzo(b)fluoranthene	lead
arsenic	tetrachloroethane

trichloroethene (TCE)
cis-1,2-dichloroethene
1,1 dichloroethene

vinyl chloride 1,1,1-trichloroethane (TCA) 1,1-dichloroethane

The contaminant(s) of concern exceed the applicable SCGs for:

- groundwater

- soil

# 6.2: Interim Remedial Measures

An interim remedial measure (IRM) is conducted at a site when a source of contamination or exposure pathway can be effectively addressed before issuance of the Decision Document.

There were no IRMs performed at this site during the RI.

# 6.3: <u>Summary of Environmental Assessment</u>

This section summarizes the assessment of existing and potential future environmental impacts presented by the site. Environmental impacts may include existing and potential future exposure pathways to fish and wildlife receptors, wetlands, groundwater resources, and surface water. The RI report presents a detailed discussion of any existing and potential impacts from the site to fish and wildlife receptors.

Nature and Extent of Contamination

Soil, groundwater, sediment, surface water, and soil vapor were analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals, per- and polyfluoroalkyl substances (PFAS), polychlorinated biphenyls (PCBs), and pesticides. Based upon investigations to date, the primary contaminants of concern are chlorinated VOCs and metals in groundwater and SVOCs in surface soils.

Soil

Polycyclic aromatic hydrocarbons (PAHs) including benzo(a)pyrene, benzo(b)fluoranthene, and dibenz(a,h)anthracene were detected in surface soils on the south and west portions of the site above commercial use soil cleanup objectives (SCOs). Benzo(a)pyrene was detected at 10 parts per million (ppm) which exceeds the commercial use SCO of 1 ppm; benzo(b)fluoranthene was detected at 15 ppm which exceeds the commercial use SCO of 5.6 ppm; and dibenz(a,h)anthracene was detected at 1.5 ppm which exceeds the commercial use SCO of 0.56 ppm.

VOCs and metals were not detected above protection of groundwater or commercial use SCOs. Contaminants are not migrating off-site in soils.

Groundwater

Tetrachloroethene (PCE), 1,1,1-trichloroethane (TCA), and their associated degradation products were found in groundwater on the eastern portions of the site, exceeding the groundwater standard which is 5 parts per billion (ppb) for all compounds except vinyl chloride, which has a groundwater standard of 2 ppb. Maximum concentrations were 36 ppb for PCE, 72 ppb for trichloroethene, 440 ppb for cis-1,2-dichloroethene, 8.8 ppb for 1,1-dichloroethene, 21 ppb for TCA, 87 ppb for 1,1-dichloroethane, and 11 ppb for vinyl chloride.

Metals, such as arsenic, lead, cadmium, and chromium were also detected in groundwater above standards near the former aboveground storage tank area. The maximum concentrations (and groundwater standards) for arsenic, lead, cadmium, and chromium were 172 ppb (25 ppb), 430 ppb (25 ppb), 32 (5 ppb), and 462 ppb (50 ppb), respectively.

Perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS) were reported at concentrations of up to 2.9 and 7.2 parts per trillion (ppt), respectively, which is below the Maximum Contaminant Level (drinking water standard) of 10 ppt in groundwater for both PFOA and PFOS.

1,4-Dioxane was reported at concentrations of up to 3.7 parts per billion (ppb), exceeding the Maximum Contaminant Level (drinking water standard) of 1 ppb in groundwater.

Contaminants are not migrating off-site in groundwater.

## Soil Vapor and Indoor Air

No compounds were detected in the indoor air at levels above New York State Department of Health air guideline values. PCE was the only compound detected in sub-slab soil vapor at levels indicating additional action should be considered.

PCE was detected in one sub-slab soil vapor sample at 1,200 micrograms per cubic meter (ug/m3) in the western portion of the manufacturing building during the 2017 soil vapor intrusion investigation. This area was resampled in 2019 due to a change in occupancy and PCE was detected at 40 ug/m3. The maximum indoor air concentration for PCE was 1.3 ug/m3 which is well below the air guideline value of 30 ug/m3. No further action was needed based on a full review of all sub-slab soil vapor and indoor air data.

Sub-slab soil vapor and indoor air samples were not collected from the eastern machining building because it is unoccupied and scheduled for demolition.

Contaminants are not migrating off-site in soil vapor.

# Sediment

Chromium, copper, and zinc were found in storm water pond sediment above the Screening and Assessment of Contaminated Sediments Class C guidance values in one location. Chromium was detected up to 151 ppm; the guidance value is 110 ppm. Copper was detected up to 574 ppm; the guidance value is 150 ppm. Zinc was detected up to 1,090 ppm; the guidance value is 460 ppm. The extent of contaminants found in sediments is limited and no further action is required.

Surface Water

No compounds were found in surface water above standards.

# 6.4: <u>Summary of Human Exposure Pathways</u>

This human exposure assessment identifies ways in which people may be exposed to site-related contaminants. Chemicals can enter the body through three major pathways (breathing, touching or swallowing). This is referred to as *exposure*.

Access is not restricted and people who enter the site could contact contaminants in the soil, surface water or sediments by walking, digging or otherwise disturbing the soil or collection pond. People are not drinking the contaminated groundwater because the area is served by a public water supply that is not affected by this contamination. Volatile organic compounds in the soil vapor (air spaces within the soil), may move into buildings and affect indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. Environmental sampling indicates that soil vapor intrusion is a not a concern for one onsite building and offsite buildings. However, additional investigation is recommended for future redevelopment or change in use in the area of the eastern machining building, currently proposed for demolition, to determine if action is needed to address soil vapor intrusion.

# 6.5: <u>Summary of the Remediation Objectives</u>

The objectives for the remedial program have been established through the remedy selection process stated in 6 NYCRR Part 375. The goal for the remedial program is to restore the site to pre-disposal conditions to the extent feasible. At a minimum, the remedy shall eliminate or mitigate all significant threats to public health and the environment presented by the contamination identified at the site through the proper application of scientific and engineering principles.

The remedial action objectives for this site are:

### Groundwater

### **RAOs for Public Health Protection**

- Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards.
  - Prevent contact with, or inhalation of volatiles, from contaminated groundwater.

# **RAOs for Environmental Protection**

- Restore ground water aquifer to pre-disposal/pre-release conditions, to the extent practicable.
- Prevent the discharge of contaminants to surface water.
- Remove the source of ground or surface water contamination.

### <u>Soil</u>

# **RAOs for Public Health Protection**

• Prevent ingestion/direct contact with contaminated soil.

• Prevent inhalation of or exposure from contaminants volatilizing from contaminants in soil.

# **RAOs for Environmental Protection**

• Prevent impacts to biota from ingestion/direct contact with soil causing toxicity or impacts from bioaccumulation through the terrestrial food chain.

# <u>Sediment</u>

# **RAOs for Public Health Protection**

- Prevent ingestion/direct contact with contaminated sediments.
- Prevent surface water contamination which may result in fish advisories.

# **RAOs for Environmental Protection**

- Prevent releases of contaminants from sediments that would result in surface water levels in excess of ambient water quality criteria.
- Prevent impacts to biota from ingestion/direct contact with sediments causing toxicity or impacts from bioaccumulation through the marine or aquatic food chain.

# <u>Soil Vapor</u>

# **RAOs for Public Health Protection**

• Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at a site.

# SECTION 7: ELEMENTS OF THE SELECTED REMEDY

The alternatives developed for the site and the evaluation of the remedial criteria are presented in the Alternative Analysis. The remedy is selected pursuant to the remedy selection criteria set forth in DER-10, Technical Guidance for Site Investigation and Remediation and 6 NYCRR Part 375.

The selected remedy is a Track 4: Restricted use with site-specific soil cleanup objectives remedy.

The selected remedy is referred to as the Enhanced Bioremediation with Targeted PAH and Source Area Excavation and ICs remedy.

The elements of the selected remedy, as shown in Figures 3 and 4, are as follows:

1. Remedial Design

A remedial design program will be implemented to provide the details necessary for the construction, operation, optimization, maintenance, and monitoring of the remedial program. Green remediation principles and techniques will be implemented to the extent feasible in the design, implementation, and site management of the remedy as per DER-31. The major green remediation components are as follows:

- Considering the environmental impacts of treatment technologies and remedy stewardship over the long term;
- Reducing direct and indirect greenhouse gases and other emissions;

- Increasing energy efficiency and minimizing use of non-renewable energy;
- Conserving and efficiently managing resources and materials;
- Reducing waste, increasing recycling and increasing reuse of materials which would otherwise be considered a waste;
- Maximizing habitat value and creating habitat when possible;
- Fostering green and healthy communities and working landscapes which balance ecological, economic and social goals;
- Integrating the remedy with the end use where possible and encouraging green and sustainable re-development; and
- Additionally, to incorporate green remediation principles and techniques to the extent feasible in the future development at this site, any future on-site buildings will include, at a minimum, a 20-mil vapor barrier/waterproofing membrane on the foundation to improve energy efficiency as an element of construction.

# 2. Excavation

The existing on-site eastern machining building(s) will be demolished and the nature and extent of contamination in this area, where access was previously limited or unavailable, will be immediately and thoroughly investigated pursuant to a plan approved by the Department. Based on the investigation results and the Department's determination of the need for a remedy, the Remedial Action Work Plan (RAWP) will include removal and/or treatment of any source areas to the extent feasible.

At a minimum, all soils in the upper foot which exceed the commercial use Soil Cleanup Objectives (SCOs) will be excavated and transported off-site for disposal. Approximately 21 cubic yards of contaminated soil will be removed from the site.

# 3. Backfill

Clean fill meeting the requirements of 6 NYCRR Part 375-6.7(d) will be brought in to replace the excavated soil and establish the designed grades at the site.

# 4. Cover System

A site cover will be required to allow for commercial or industrial use of the site in areas where the upper one foot of exposed surface soil will exceed the applicable SCOs. Where a soil cover is to be used it will be a minimum of one foot of soil placed over a demarcation layer, with the upper six inches of soil of sufficient quality to maintain a vegetative layer. Soil cover material, including any fill material brought to the site, will meet the SCOs for cover material for the use of the site as set forth in 6 NYCRR Part 375-6.7(d). Substitution of other materials and components may be allowed where such components already exist or are a component of the tangible property to be placed as part of site redevelopment. Such components may include, but are not necessarily limited to: pavement, concrete, paved surface parking areas, sidewalks, building foundations and building slabs.

# 5. Enhanced Bioremediation

In-situ enhanced biodegradation will be employed to treat chlorinated VOCs in groundwater in the area of the eastern machining building. The biological breakdown of contaminants through

anaerobic reductive dechlorination will be enhanced by the placement of bacteria and nutrients into the subsurface to promote microbe growth. The bacteria and nutrients will be placed into the subsurface via injection points from 3 to 10 feet. In the event that appropriate aquifer pH (6-8) and total organic carbon (TOC) concentration (greater than 50 mg/l) cannot be simultaneously maintained, the injection solution will be buffered with sodium bicarbonate to counteract the organic acids generated from biological activity.

Monitoring will be required upgradient, downgradient, and within the treatment zone. Monitoring will be conducted for volatile organic compounds (VOCs) and metals upgradient, downgradient, and within the treatment zone. To evaluate the enhanced bioremediation remedy, the treatment zone will also be monitored for the following: dissolved-oxygen, nitrate, iron, sulfate, alkalinity, oxidation-reduction potential, pH, chloride, and methane. A baseline groundwater monitoring program will be implemented to provide groundwater quality data prior to in-situ enhanced bioremediation.

# 6. Engineering and Institutional Controls

Imposition of an institutional control in the form of an environmental easement and a Site Management Plan, as described below, will be required. The remedy will achieve a Track 4 commercial cleanup at a minimum and will include a site cover.

Imposition of an institutional control in the form of an environmental easement for the controlled property which will:

- require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);
- allow the use and development of the controlled property for commercial or industrial use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;
- restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or County Department of Health; and
- require compliance with the Department approved SMP.

### 7. Site Management Plan

An SMP is required, which includes the following:

a. an Institutional and Engineering Control Plan that identifies all use restrictions and engineering controls for the site and details the steps and media-specific requirements necessary to ensure the following institutional and/or engineering controls remain in place and effective:

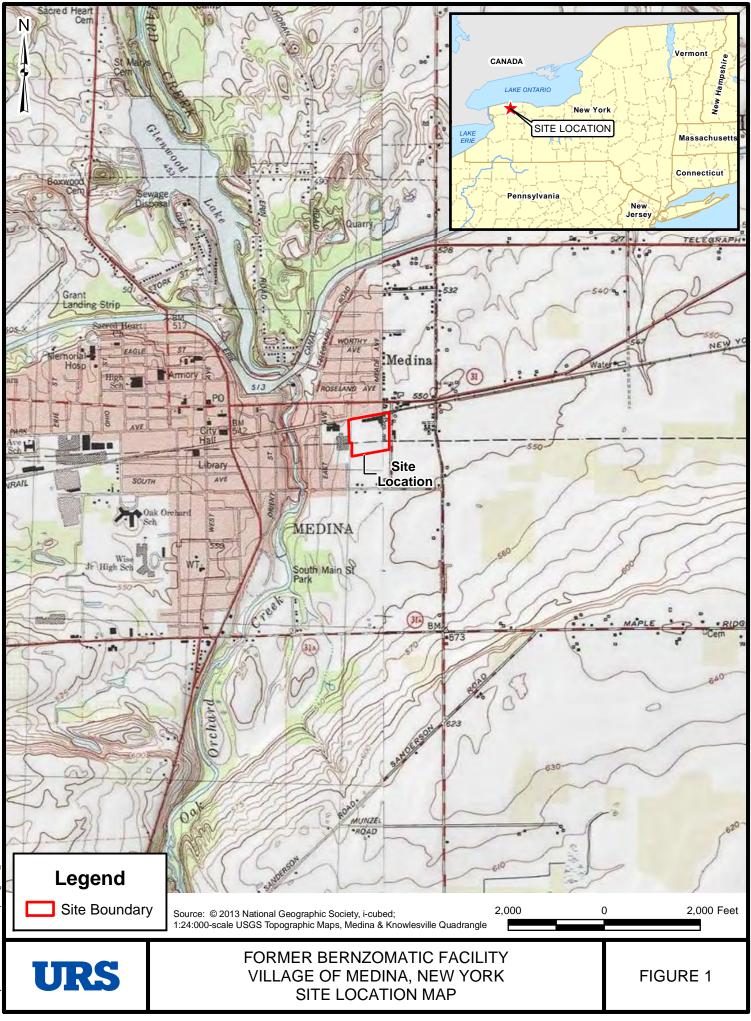
Institutional Controls: The environmental easement discussed in paragraph 6 above. Engineering Controls: The soil cover discussed in paragraph 4 above.

This plan includes, but may not be limited to:

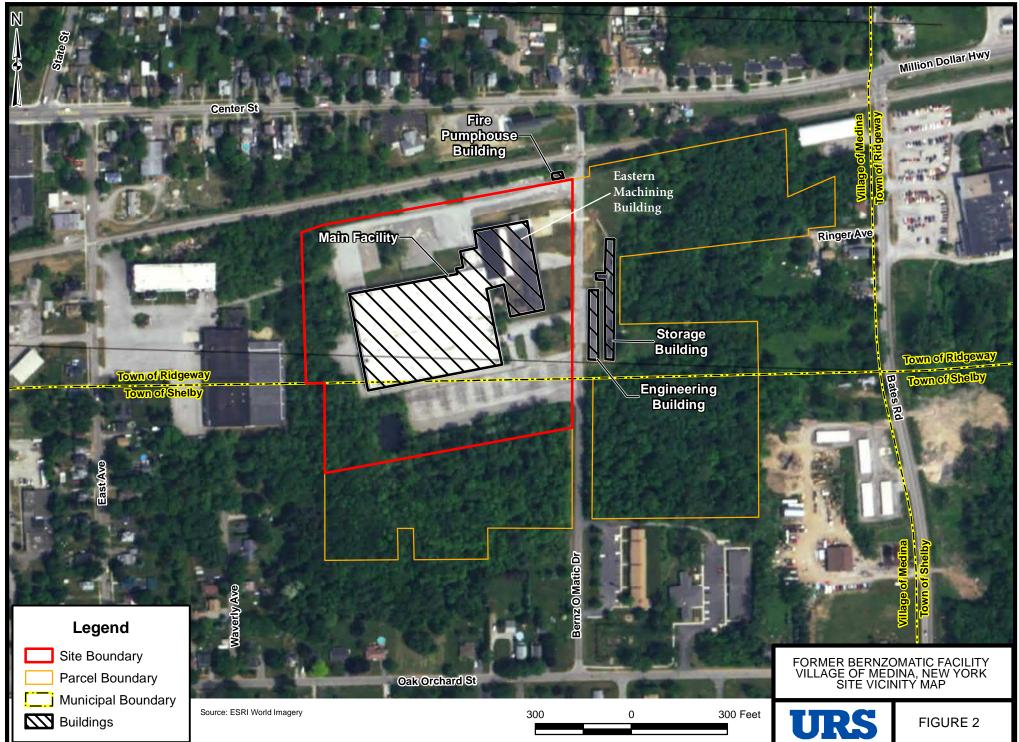
- an Excavation Plan which details the provisions for management of future excavations in areas of remaining contamination;
- o descriptions of the provisions of the environmental easement including any land

use, and/or groundwater use restrictions;

- a provision for evaluation of the potential for soil vapor intrusion for any occupied buildings on the site, including provision for implementing actions recommended to address exposures related to soil vapor intrusion;
- a provision that should a building foundation or building slab be removed in the future, a cover system consistent with that described above will be placed in any areas where the upper one foot of exposed surface soil exceeds the applicable SCOs;
- provisions for the management and inspection of the identified engineering controls;
- o maintaining site access controls and Department notification; and
- the steps necessary for the periodic reviews and certification of the institutional and/or engineering controls.
- b. a Monitoring Plan to assess the performance and effectiveness of the remedy. The plan includes, but may not be limited to:
  - monitoring of groundwater and soil vapor intrusion to assess the performance and effectiveness of the remedy;
  - o a schedule of monitoring and frequency of submittals to the Department; and,
  - monitoring for vapor intrusion for any buildings on the site, as may be required by the Institutional and Engineering Control Plan discussed above.



J:\Projects\25369237\GIS\Maps\Figure2\_SiteVicinity.mxd 6/8/2017







Note: Extent of treatment area and location of injection points will be determined during a pre-design investigation to be performed following building demolition.



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FORMER BERNZOMATIC FACILITY VILLAGE OF MEDINA, NEW YORK ESTIMATED TREATMENT AREAS



100 Feet

# Attachment 2 – PDI Phase II Subsurface Soil and Groundwater Pre-design Investigation Summary Report



An AECOM Company 50 Lakefront Boulevard Suite 111 Buffalo, NY 14202 www.aecom.com

July 6, 2023

#### SUBMITTED VIA ELECTRONIC MAIL

Mr. Joshuah Klier Division of Environmental Remediation New York State Department of Environmental Conservation, Region 8 6274 East Avon-Lima Road Avon, NY 14414-9516

#### RE: Pre-Design Investigation Report Phase II: Subsurface Soil and Groundwater Former Bernzomatic Facility, Medina NY (BCP Site No. C837018)

Dear Mr. Klier,

On behalf of Newell Operating Company (Newell), URS Corporation (URS), an AECOM Company, submits this pre-design investigation report (PDI Phase II Report) for the completed investigation described in the *Pre-Design Investigation Work Plan Phase II: Subsurface Soil and Groundwater* (PDI Phase II Work Plan) dated March 2022 for the above-referenced Former Bernzomatic Facility site (Site).

The results of previous investigations at the Site (see PDI Phase II Work Plan) indicated that potential volatile organic compounds (VOCs) and metals impacts existed in the subsurface beneath the footprint of the eastern machining building; however, full delineation of this area was not previously completed due to the presence of the building. The PDI Phase II Work Plan subsurface soil and groundwater investigation was therefore performed upon demolition of the eastern machine building which was completed as part of the PDI Phase I.

The PDI Phase II Work Plan was approved by the New York State Department of Environmental Conservation (NYSDEC) on May 18, 2022, to implement the Decision Document (DD) for the Site issued by the NYSDEC on February 9, 2021. The purpose of the PDI Phase II Work Plan was to gather additional information to complete the remedial design. Results of this PDI Phase II will be used to prepare a Remedial Action Work Plan (RAWP) to address the removal and/or treatment of any source areas to the extent feasible. Figure 1 presents the Site plan with the planned PDI Phase II Work Plan investigation locations.

The scope of work described in the PDI Phase II Work Plan included the following activities:

- Complete 12 soil borings (PDI-1 through PDI-12) within the footprint of the former eastern
  machining building. Nine of the borings were to be installed in the investigation area identified in
  the Alternatives Analysis Report (URS, October 2020) and three were to be in the areas identified
  during the PDI Phase I building demolition activity (two at the north end and one at the south end
  of the former eastern machining building noted during removal of foundation).
- Submit one unsaturated soil sample from each boring (PDI-1 through PDI-12) for VOC and metals analyses.
- Submit one groundwater grab sample from each PDI boring (PDI-1 through PDI-12 [prior to converting any location to a monitoring well]) for VOC analysis.
- Complete one of the 12 borings as a treatment area monitoring well (MW-22).



- Collect one round of groundwater samples from seven existing wells (MW-05, MW-07, MW-14, MW-16, MW-17, MW-19, and MW-21) and the new treatment area monitoring well MW-22 to establish baseline groundwater quality conditions prior to implementation of the in-situ enhanced bioremediation program.
- Complete an elevation and location survey of the investigation locations.

This letter report has been prepared to transmit a summary and analysis of the investigation work described above.

#### **INVESTIGATION ACTIVITIES**

#### Utility Clearance

Prior to the start of work, Dig Safely New York was contacted for public utility mark outs. Utility clearance was performed on April 22, 2022, by subcontractor by Matrix Environmental Technologies Inc. of Orchard Park, NY. URS marked the proposed boring locations with pin-flags prior to the utility mark out. Known utility changes in the area of the eastern machining buildings were discussed with the building facility manager. Utility mark out using ground penetrating radar (GPR) was performed. Recent changes to the gas line and fire loop water systems were noted within the work area and sampling locations were adjusted in some locations to avoid these utilities and the new asphalt driveway installed during the Phase I PDI work by others. With the concurrence of the NYSDEC project manager, location PDI-8 was moved approximately 10 feet north of the planned location to avoid the same driveway and remain south of the main gas line to the facility.

#### Soil Borings and Sampling

On April 27 through 29, 2022, a series of soil borings were completed using the direct-push technology (DPT) method. This soil boring and sampling program was completed for the purpose of further delineating contamination under the eastern refining building.

Borings were performed by Matrix Environmental Technologies Inc., under the direction of a URS geologist.

Borings were advanced to the bedrock surface refusal (approximately 9-10 feet below ground surface [bgs]). The PDI Phase II Work Plan called for the completion of twelve soil borings with one completed as a treatment area monitoring well (PDI-01 through PDI-11, and MW-22, whose location was renamed PDI-12 when the well was moved to PDI-03 location.)

The twelve soil borings (PDI-01 through PDI-12) were completed in accordance with the PDI Phase II Work Plan. One unsaturated soil sample was collected from each boring and submitted to Eurofins TestAmerica Laboratories, Amherst, NY, for VOCs and metals analyses along with quality control (QC) samples. Potential impacts were not observed (based on visual and olfactory characteristics) in any of the borings except for some suspected grey staining in PDI-6 and PDI-7 at approximately 5-6 feet bgs). There were no elevated photoionization detector (PID) readings above background associated with the soils.

Sampling locations were hand-cleared using an air knife and hand auger to a depth of approximately 5 feet bgs, after which soil samples were collected continuously to the bottom of the boring using 5-foot long, 2-inch diameter MacroCore<sup>™</sup> samplers. Soil samples were visually described and recorded by the field geologist. The descriptions were in accordance with the An Engineering Description of Soils: Visual-Manual Procedure – Geotechnical Test Procedure (GTP-2) (State of New York Department of Transportation, August 2015). The field geologist recorded the soil descriptions and any other observations (e.g., visual and olfactory observations, soil staining, etc.) in the field logbook.



Immediately after describing the soil core, the field geologist scanned the soil with a 10.2 eV PID for organic vapors and recorded results. Boring logs are provided in Attachment 1.

Upon completion of borings, a single soil sample for laboratory analysis was collected from the interval directly above observed groundwater since impacts were not observed at any soil boring location, including during the hand clearing of soils. The soil sample was collected directly from hand-clearing soils or the MacroCore<sup>™</sup> liners and placed into appropriate laboratory-supplied sample containers.

Samples were delivered to Eurofins TestAmerica, Amherst, NY. The subsurface soil samples were submitted for the following analyses:

- VOCs by United States Environmental Protection Agency (USEPA) Method SW8260C.
- Metals/Mercury by USEPA Method 6010C, 7470A, and 7471B.

#### Well Installations and Development

One well (MW-22) was installed at the location of PDI-3 in the footprint of the former eastern machining building. After reviewing the boring logs, the original selected location (PDI-12) was one that had been moved south to avoid utilities and was found to be in an area of apparently less permeable soils than that of other locations. The well was moved one location to the north at PDI-03 with the concurrence of the NYSDEC project manager. In addition to MW-22, per the PDI Phase II Work Plan, seven existing wells were scheduled to be groundwater sampled; however, two of those existing wells (MW-05 and MW-19) were unable to be located and it is assumed that they were destroyed during the demolition of the eastern machining building. One additional well that was not scheduled to be sampled (MW-06) was also unable to be located. MW-05R, a replacement for MW-05, was installed at the location of PDI-11. MW-19R, the replacement well for MW-19, was placed on the north side of the new asphalt driveway due north of the original MW-19 which is believed to lie underneath the driveway. Following discussion with NYSDEC, no soil samples were collected at the replacement well MW-19R due to the existence of other subsurface soil data in that immediate area. Well construction logs are provided in Attachment 1. There was no replacement well drilled from MW-06 as it was not part of the PDI Phase II Work Plan sampling schedule.

New monitoring wells were installed on April 29, 2022, in accordance with the PDI Phase II Work Plan. Relatively shallow water depths (3-4 feet bgs) resulted in sandpacks approximately 1.5-2.0 feet bgs, and the bentonite was then brought to the bottom of the flush mount road boxes, and no grout was necessary. PVC risers were protected with Sonotube for the final well completions. The well risers were initially left high pending additional topsoil placement as part of final grading of the area as part of the PDI Phase I restoration. The three newly installed wells were developed on May 2, 2022, in accordance with the PDI Phase II Work Plan. The PDI Phase I final grading and reseeding was completed in May 2022. Final completion of the new PDI Phase II monitoring well road boxes was on July 7, 2022. Well development logs are presented in Attachment 1.

#### Groundwater Grab Sampling and Groundwater Well Sampling

Following completion of each of the twelve soil borings, an initial water level measurement was collected. Then a groundwater grab sample was collected from the bottom four feet of the boring using a Geoprobe<sup>®</sup> Screen Point 22 sampler (SP-22). Grab samples were collected using a peristaltic pump. Following sample collection, the screen point sampler was removed, and the borehole was backfilled with bentonite grout (approximately 50/50 water/powdered bentonite). Following development, the one new well, two replacement wells, and five additional existing wells were sampled using low-flow protocols with a peristaltic pump on May 9-10, 2022. Field parameters for grab samples and well samples were collected using a YSI water quality meter (temperature, pH,



conductivity, dissolved oxygen, oxidation-reduction potential (ORP), and turbidity). Field parameter data are presented in Table 1. Groundwater grab and groundwater well sampling forms are presented in Attachment 1.

Samples were delivered to Eurofins TestAmerica, Amherst, New York.

Groundwater grab samples were collected from the completed soil borings for the following analyses:

• VOCs by USEPA Method SW8260C.

Monitoring well low-flow groundwater samples were collected for the following analyses:

- VOCs by USEPA Method SW8260C.
- Metals/Mercury by USEPA Method 6010C, 7470A, and 7471B.

Groundwater samples from four select monitoring wells were collected for the following additional monitored natural attenuation (MNA) analyses:

- Methane by USEPA Robert S. Kerr (RSK)-175.
- Dissolved Iron by USEPA Method 6010C.
- Total Alkalinity by Standard Methods SM2320B.
- Chloride/Nitrate/Sulfate by USEPA Method 300.0.

A summary of the soil and groundwater sample results is provided below in the Investigation Results section.

A round of water levels from the new, replacement, and existing groundwater monitoring wells was collected on May 2, 2022. Depth to water and groundwater elevation data are presented in Table 2. Figure 2 presents the groundwater elevation contours.

#### **INVESTIGATION RESULTS**

#### Soil Sample Analytical Results

Table 3 and Figure 3 present the soil results from the twelve PDI Phase II borings. The concentrations of the detected compounds were compared against the criteria in New York Codes, Rules, and Regulations (NYCRR) Part 375, Subpart 375-6, Table 375-6.8(a) *Unrestricted Use Soil Cleanup Objectives (SCOs)* and Table 375-6.8(b) *Protection of Groundwater Use SCOs and Commercial Use SCOs*. No VOCs were detected above any of these criteria in the collected soil samples.

Eight VOCs were detected below criteria in at least one PDI location, including: 1,1,1-trichloroethane, cis -1,2-dichloroethene (cis-1,2-DCE), trans - 1,2-dichloroethene (trans-1,2-DCE), acetone, methyl acetate, methyl ethyl ketone (2-Butanone), methylcyclohexane, and tetrachloroethene (PCE). No VOC concentrations exceeded Unrestricted Use, Protection of Groundwater, or Commercial Use SCOs.

Three metals were detected above Unrestricted Use SCOs as described below:

- Aluminum in 3 of 12 samples: in PDI-06, PDI-07, and PDI-12.
- Calcium in 9 of 12 samples: in PDI-01, PDI-02, PDI-04, PDI-05, PDI-06, PDI-07, PDI-09, PD I-10, and PDI-11.
- Iron: in all 12 samples: PDI-01 thru PDI-12.



Although there were detections of other metals at each PDI Phase II location, there were no exceedances of metals for Protection of Groundwater or Commercial Use SCOs. These results are consistent with the results of the remedial investigation (RI) (i.e., aluminum, calcium, and iron were detected in the same range of concentrations in the PDI Phase II as were detected in subsurface soils in the RI.)

#### Groundwater Grab and Groundwater Well Analytical Results

Table 4 and Figure 4 present the groundwater grab samples from the twelve PDI borings, as well as the eight groundwater samples from new, replacement and existing Site wells. The concentrations of the detected compounds were compared against the criteria in NYSDEC TOGS (1,1,1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, April 2000.

Five metals were detected above groundwater standards and guidance values as described below:

- Barium in 2 of 8 samples: MW-16 and MW-21.
- Iron in 6 of 8 samples: MW-07, MW-14, MW-16, MW-17, MW-19R, and MW-22.
- Magnesium in 3 of 8 samples: MW-16, MW-17, and MW-21.
- Manganese in 8 of 8 samples: MW-05R, MW-07, MW-14, MW-16, MW-17, MW-19R, MW-21, and MW-22.
- Sodium in 7 of 8 samples: MW-05R, MW-14, MW-16, MW-17, MW-19R, MW-21, and MW-22.

Although there were detections of other metals at each PDI Phase II location, there were no other exceedances of metals for the listed groundwater standards and guidance values.

Nine VOCs were detected above the groundwater standards and guidance values as follows: 1,1dichloroethane, 1,1-dichloroethene, cis -1,2-DCE, trans - 1,2-DCE, acetone, chloroethane, PCE, trichloroethene (TCE), and vinyl chloride.

Monitoring well locations where criteria exceeded VOC groundwater standards included: MW-05R, MW-07, MW-21 (and duplicate), and MW-22. Other locations had detections for other select VOCs but were not in exceedance of the groundwater criteria. A summary of VOC exceedance detections in low-flow monitoring well samples includes:

- MW-05R maximum concentration cis-1,2-DCE at 210  $\mu$ g/L; four other compounds detected at 22  $\mu$ g/L or less.
- MW-07 maximum concentration TCE at 6.1  $\mu$ g/L; no other compounds detected above criteria.
- MW-21 maximum concentration cis-1,2-DCE at 65 μg/L; two other compounds detected at 13 μg/L each.
- MW-22 maximum concentration cis-1,2-DCE at 130  $\mu\text{g/L}$ ; no other compounds detected above criteria.

Groundwater grab locations where criteria exceeded VOC groundwater standards included: PDI-03, PDI-04, PDI-08, PDI-09, PDI-10, PDI-11, PDI-12. Grab sample VOC exceedances were predominantly located north of the new asphalt driveway, except for PDI-12, located just south of the western end of the new asphalt driveway. Other locations had detections for other select VOCs but were not in exceedance of the groundwater criteria. A summary of VOC exceedance detections in direct-push boring grab sample locations includes:

• PDI-03 – maximum concentration cis-1,2-DCE at 300 µg/L; no other compounds detected above criteria.



- PDI-04 maximum concentration cis-1,2-DCE at 1,400  $\mu$ g/L; two other compounds detected at 430  $\mu$ g/L and 250  $\mu$ g/L respectively, and four other compounds detected at 73  $\mu$ g/L or less.
- PDI-08 maximum concentration cis-1,2-DCE at 18 μg/L; no other compounds detected above criteria.
- PDI-09 maximum concentration cis-1,2-DCE at 87  $\mu$ g/L; four other compounds detected at 11  $\mu$ g/L or less.
- PDI-10 maximum concentration cis-1,2-DCE at 140  $\mu$ g/L; three other compounds detected at 23  $\mu$ g/L or less.
- PDI-11 maximum concentration cis-1,2-DCE at 300  $\mu$ g/L; three compounds detected between 52  $\mu$ g/L and 73  $\mu$ g/L, and two compounds detected below 10  $\mu$ g/L.
- PDI-12 maximum concentration cis-1,2-DCE at 1,400  $\mu$ g/L; one other compound detected at 160  $\mu$ g/L, and four other compounds detected at 45  $\mu$ g/L or less.

Groundwater grab samples were collected from the pilot borings for two new wells (PDI-11 at MW-05R and PDI-3 at MW-22). In each case, compounds detected were similar, but concentrations were greater in the groundwater grab sample as compared to the low-flow sample, which would be expected given the differences in the sample collection techniques.

The individual constituents detected in the PDI Phase II VOCs and metals groundwater data are consistent with the results of the RI. The range of VOC concentrations detected in the PDI Phase II groundwater samples focused within the footprint of the former eastern machining building were generally greater than observed in the RI areas outside the footprint of the former eastern machining building. The RI concluded VOC levels in groundwater suggest the likely source was in the former eastern machining building. PDI Phase II VOC groundwater data support this conclusion.

Four wells were sampled for MNA parameters. The analytical results and relevant MNA field parameter results from all the groundwater samples are included below:

- Sulfate in all four were all greater than 20 milligrams per liter (mg/L). Sulfate lower than 20 mg/L is desirable, otherwise sulfate may compete with the reductive pathway for anerobic degradation of chlorinated solvents.
- Methane ranged from 21 mg/L to 280 mg/L.
- Nitrate-Nitrogen ranged from non-detect to 0.83 mg/L. High concentrations may compete with the reductive pathway.
- Chloride ranged from 28.6 mg/L to 2,900 mg/L.
- Alkalinity ranged from 186 mg/L to 637 mg/L.
- pH ranged from 6.8 to 8.34, within the optimal range for reductive pathway.
- ORP ranged from -146.1 milliVolts (mV) to 121.7 mV, all but 2 were below +50 mV where reductive pathway is possible.
- Dissolved oxygen ranged from 0.34 mg/L to 4.93 mg/L with 6 of the 8 low-flow sampled wells under 0.5 mg/L which is desired for reductive pathway.

#### Data Validation

A Data Usability Summary Report (DUSR) (Attachment 2). was prepared for the PDI Phase II soil boring and groundwater samples. The DUSR was prepared following the guidelines provided in NYSDEC Division of Environmental Remediation *DER-10 Technical Guidance for Site Investigation and Remediation, Appendix 2B-Guidance for Data Deliverables and the Development of Data Usability and Summary Reports*, May 2010. The DUSR is provided as Attachment 2. All sample



analyses were found to be compliant with the method criteria, except where noted in the DUSR. Those results qualified 'J' or UJ are considered conditionally usable. Those results qualified "U" should be considered non-detect. All other sample results are usable as reported. URS does not recommend the recollection of any samples.

#### Community Air Monitoring Plan (CAMP) Results

Community air monitoring was performed during drilling activities to verify that contaminants from the site activity did not impact nearby residents or visitors during site characterization in accordance with the NYSDOH's Generic CAMP (NYSDOH, 2000). Monitoring was performed using perimeter air monitoring (PAM) stations equipped to monitor for VOCs and airborne particulates (PM-10).

On April 27-29, 2022, air monitoring was performed during soil boring and well installation activities. A total of two temporary monitoring stations collected data on the upwind and downwind perimeter and nearest receptor during intrusive activities. VOCs and dust monitoring results did not exceed the action levels identified in the PDI Phase II Work Plan.

#### **CONCLUSIONS**

The intent of the PDI Phase II was to delineate the extent of impacts at the Site beneath the former eastern machine building, determine pilot test injection areas and incorporate the PDI Phase II data in the RAWP. PDI Phase II data show that chlorinated VOC impacts in soil under the former eastern machining building are below Protection of Groundwater and Industrial Use SCOs and in groundwater are predominantly isolated to the area north of the new asphalt driveway. The PDI Phase II VOC and metals data are consistent with the results of the RI (i.e., the VOCs and metals detected in the PDI Phase II were similar in variety and concentration to VOCs and metals detected in the RI). MNA and field parameters collected from four select groundwater monitoring wells indicate a reductive pathway is possible in keeping with the remedial actions selected in the NYSDEC's Decision Document.

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

Very truly yours,

lames L. Kaugon

James L. Kaczor Project Manager james.kaczor@aecom.com

Tables Figures Attachment 1 – Field Forms Attachment 2 - DUSR



Mr. Joshuah Klier July 6, 2023 Page 8

cc: Kristin Jones, Newell Operating Company Kyle Brent, B360 Holdings LLC Adam Zebrowski, LaBella Associates Jeff Stravino, Hodgson Russ Thomas Walsh, Barclay Damon Lisa Schwartz, NYSDEC David Pratt, NYSDEC Angela Martin, NYSDOH Justin Deming, NYSDOH Tables

#### TABLE 1

#### GROUNDWATER SAMPLING FIELD PARAMETER DATA Former Bernzomatic Facility, Medina, NY BCP Site No. C837018

Monitoring Well ID	Date	Temperature (deg C)	Specific Conductance (mS/cm)	Dissolved Oyxgen (mg/L)	pH (standard units)	Oxidation Reduction Potential (mV)	Turbidity (NTU)
MW-05R	5/9/2022	10.4	0.758	0.60	7.53	42.1	4.57
MW-07	5/9/2022	10.4	0.663	0.47	7.24	-37.7	9.45
MW-14	5/9/2022	11.0	1.176	0.34	6.81	-32.1	7.80
MW-16	5/10/2022	11.9	3.600	0.56	7.00	-108.6	4.76
MW-17	5/10/2022	10.0	1.618	0.47	7.45	-139.9	10.21
MW-19R	5/10/2022	13.2	1.398	4.36	7.89	121.7	20.0
MW-21	5/10/2022	12.8	8.786	0.47	7.40	-5.5	6.28
MW-22	5/9/2022	10.8	1.638	0.50	7.03	-4.0	154.25
PDI-01	4/27/2022	8.8	1.480	1.55	8.11	-101.2	2249
PDI-02	4/27/2022	7.4	1.48	2.92	7.51	-67.6	2362
PDI-03	4/27/2022	8.8	1.459	1.15	7.11	-78.6	3189
PDI-04	4/28/2022	11.1	1.705	0.51	7.25	-146.1	3563
PDI-05	4/28/2022	1.1	1.223	1.29	8.34	-143.7	4458
PDI-06	4/27/2022	8.3	1.596	1.02	7.49	-127.3	697
PDI-07	4/27/2022	7.7	1.990	2.40	7.50	-34.7	1402
PDI-08	4/27/2022	9.0	1.758	4.33	7.39	-62.4	4927
PDI-09	4/28/2022	11.0	0.857	1.69	7.46	-61.5	4219
PDI-10	4/28/2022	11.1	1.287	1.12	7.37	-56.4	1232
PDI-11	4/28/2022	11.3	0.831	1.91	7.82	-3.3	5469
PDI-12	4/28/2022	13.1	1.344	4.93	7.77	103.0	6309

Notes:

PDI 01-12 are screen point grab samples - parameters (especially dissolved oxygen and turbidity) may not reflect aquifer conditions.

deg C - degrees Celcius mV - milliVolts

mS/cm - milliSiemens per centimeter NTU - nephelometric turbidity unit

mg/L - milligrams per Liter

NA - not applicable

#### TABLE 2

#### GROUNDWATER ELEVATION DATA - MAY 2, 2022 Former Bernzomatic Facility, Medina, NY BCP Site No. C837018

Location ID	Northing	Easting	Ground Elevation (feet)	Casing Elevation (feet)	Meas.point (Riser) Elev. (feet)	Geol. Zone	Date	Depth to Water (feet)	Water Elev. (feet)
MW-01	1172819.43	1203736.30	546.63	546.63	546.31	OB	5/02/2022	2.73	543.58
MW-02	1172880.23	1203725.44	546.66	546.66	546.36	OB	5/02/2022	NM	NA
MW-03	1172808.01	1203693.17	546.71	546.71	546.42	OB	5/02/2022	3.15	543.27
MW-04	1172870.67	1203681.71	546.68	546.68	546.42	OB	5/02/2022	3.85	542.57
MW-05R	1173164.72	1203858.08	546.62	546.62	546.28	OB	5/02/2022	3.85	542.43
MW-06	1173182.13	1203969.20	546.22	546.22	545.97	OB	5/02/2022	NM	NA
MW-07	1173149.14	1203972.60	546.25	546.25	545.92	OB	5/02/2022	3.58	542.34
MW-08	1173163.30	1203971.60	546.49	546.49	546.22	BR	5/02/2022	5.09	541.13
MW-09	1173205.98	1203945.35	546.42	546.42	545.91	OB	5/02/2022	3.66	542.25
MW-10	1173166.60	1203998.41	546.82	546.82	546.43	OB	5/02/2022	4.06	542.37
MW-11	1173112.01	1203968.18	546.56	546.56	545.98	OB	5/02/2022	3.49	542.49
MW-12	1172840.05	1203809.31	545.97	545.97	545.55	OB	5/02/2022	1.48	544.07
MW-13	1172780.88	1203742.61	546.60	546.60	546.18	OB	5/02/2022	2.41	543.77
MW-14	1172803.63	1203992.26	545.90	545.90	545.57	OB	5/02/2022	0.93	544.64
MW-15	1173154.06	1203279.07	541.51	541.51	541.26	OB	5/02/2022	1.09	540.17
MW-16	1173206.91	1203566.09	541.69	541.69	541.41	OB	5/02/2022	2.81	538.60
MW-17	1173284.50	1203863.17	545.69	545.69	545.42	OB	5/02/2022	3.89	541.53
MW-18	1173242.17	1204003.08	546.09	546.09	545.73	OB	5/02/2022	3.80	541.93
MW-19R	1173034.11	1203965.90	546.16	546.16	545.83	OB	5/02/2022	3.13	542.70
MW-20	1173068.44	1203599.86	542.69	542.69	542.38	OB	5/02/2022	2.20	540.18
MW-21	1173124.67	1203714.67	542.83	542.83	542.60	OB	5/02/2022	1.69	540.91
MW-22	1173034.33	1203839.52	546.21	546.21	545.94	OB	5/02/2022	3.37	542.57

Geologic Zone:

OB Shallow Unconfined Zone in Overburden

BR Upper Bedrock Zone

#### Notes:

NM - Not measured - MW-02 inaccessible due to stack of loaded pallets; MW-06 not located, presumed destroyed in PDI Phase I NA - Not available

Sample ID Matrix Depth Interval (fr Date Sampled Parameter Units Crite (1	ria Criteria	Criteria (3)	PDI-1_0405 Soil 4.0-5.0 04/27/22	PDI-2_0203 Soil 2.0-3.0 04/27/22	PDI-3_0203 Soil 2.0-3.0	PDI-4_0304 Soil 3.0-4.0	PDI-5_0405 Soil
Depth Interval (fi Date Sampled Parameter	ria Criteria		4.0-5.0	2.0-3.0			
Date Sampled Parameter Crite	ria Criteria				2.0-3.0	3.0-4.0	4050
Parameter Crite			04/27/22	04/27/22			4.0-5.0
				04/27/22	04/27/22	04/28/22	04/28/22
Volatile Organic Compounds	Volatile Organic Compounds						
1,1,1-Trichloroethane UG/KG 680	100000	5.00E+05	0.31 U	0.29 U	0.35 U	0.30 U	0.28 U
1,1,2,2-Tetrachloroethane UG/KG 600	-	-	0.69 U	0.65 U	0.78 U	0.68 U	0.63 U
1,1,2-Trichloro-1,2,2- trifluoroethane	-	-	0.97 U	0.91 U	1.1 U	0.95 U	0.88 U
1,1,2-Trichloroethane UG/KG <sup>-</sup>	-	-	0.55 U	0.52 U	0.63 U	0.54 U	0.50 U
1,1-Dichloroethane UG/KG 270	26000	2.40E+05	0.52 U	0.49 U	0.59 U	1.2 J	0.47 U
1,1-Dichloroethene UG/KG 330	100000	5.00E+05	0.52 U	0.49 U	0.59 U	0.51 U	0.47 U
1,2,4-Trichlorobenzene UG/KG <sup>340</sup>	-	-	0.26 U	0.24 U	0.29 U	0.25 U	0.23 U
1,2-Dibromo-3- chloropropane	-	-	2.1 U	2.0 U	2.4 U	2.1 U	1.9 U
1,2-Dibromoethane UG/KG - (Ethylene dibromide)	-	-	0.55 U	0.51 U	0.62 U	0.53 U	0.50 U
1,2-Dichlorobenzene UG/KG <sup>110</sup>	100000	5.00E+05	0.33 U	0.31 U	0.38 U	0.33 U	0.30 U
1,2-Dichloroethane UG/KG 20	3100	30000	0.21 U	0.20 U	0.24 U	0.21 U	0.19 U
1,2-Dichloroethene (cis) UG/KG 250	100000	5.00E+05	0.54 U	0.68 J	1.2 J	12	26
1,2-Dichloroethene (trans) UG/KG	100000	5.00E+05	0.44 U	0.41 U	0.50 U	0.68 J	1.3 J
1,2-Dichloropropane UG/KG <sup>7.00E</sup>	05 -	-	2.1 U	2.0 U	2.4 U	2.1 U	1.9 U
1,3-Dichlorobenzene UG/KG 240	49000	2.80E+05	0.22 U	0.21 U	0.25 U	0.21 U	0.20 U
1,3-Dichloropropene (cis) UG/KG	-	-	0.61 U	0.58 U	0.70 U	0.60 U	0.56 U
1,3-Dichloropropene UG/KG - (trans)	-	-	1.9 U	1.8 U	2.1 U	1.8 U	1.7 U
1,4-Dichlorobenzene UG/KG <sup>180</sup>	13000	1.30E+05	0.60 U	0.56 U	0.68 U	0.58 U	0.54 U
2-Hexanone UG/KG -	-	-	2.1 U	2.0 U	2.4 U	2.1 U	1.9 U

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, including CP-51 Table 1, Effective 12/2/10. Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, including CP-51 Table 1, Effective 12/2/10. Criteria (3)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.



Border Concentration Exceeds Criteria (2) Concentration Exceeds Criteria (3)

Concentration Exceeds Criteria 1

U - Not detected above the reported quantitation limit.

UJ - Not detected. The reported quantitation limit is an estimated value.

	Location	ID			PDI-01	PDI-02	PDI-03	PDI-04	PDI-05
	Sample	ID			PDI-1_0405	PDI-2_0203	PDI-3_0203	PDI-4_0304	PDI-5_0405
	Matrix	[			Soil	Soil	Soil	Soil	Soil
Dep	oth Interv	/al (ft)			4.0-5.0	2.0-3.0	2.0-3.0	3.0-4.0	4.0-5.0
D	ate Sam	pled			04/27/22	04/27/22	04/27/22	04/28/22	04/28/22
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)					
Volatile Organic Compounds									
4-Methyl-2-pentanone	UG/KG	1000	-	-	1.4 U	1.3 U	1.6 U	1.4 U	1.3 U
Acetone	UG/KG	50	100000	5.00E+05	4.4 J	3.4 U	31	3.5 U	10 J
Benzene	UG/KG	60	4800	44000	0.21 U	0.20 U	0.24 U	0.20 U	0.19 U
Bromodichloromethane	UG/KG	-	-	-	0.57 U	0.54 U	0.65 U	0.56 U	0.52 U
Bromoform	UG/KG	-	-	-	2.1 U	2.0 U	2.4 U	2.1 U	1.9 U
Bromomethane	UG/KG	-	-	-	0.38 U	0.36 U	0.43 U	0.37 U	0.35 U
Carbon disulfide	UG/KG	2700	-	-	2.1 U	2.0 U	2.4 U	2.1 U	1.9 U
Carbon tetrachloride	UG/KG	760	2400	22000	0.41 U	0.39 U	0.47 U	0.40 U	0.37 U
Chlorobenzene	UG/KG	1100	100000	5.00E+05	0.56 U	0.53 U	0.64 U	0.55 U	0.51 U
Chloroethane	UG/KG	1900	-	-	0.96 U	0.91 U	1.1 U	0.94 U	0.87 U
Chloroform	UG/KG	370	49000	3.50E+05	0.26 U	0.25 U	0.30 U	0.26 U	0.24 U
Chloromethane	UG/KG	-	-	-	0.26 U	0.24 U	0.29 U	0.25 U	0.23 U
Cyclohexane	UG/KG	-	-	-	0.60 U	0.56 U	0.68 U	0.58 U	0.54 U
Dibromochloromethane	UG/KG	10000	-	-	0.54 U	0.51 U	0.62 U	0.53 U	0.49 U
Dichlorodifluoromethane	UG/KG	-	-	-	0.35 U	0.33 U	0.40 U	0.34 U	0.32 U
Ethylbenzene	UG/KG	1000	41000	3.90E+05	0.29 U	0.28 U	0.33 U	0.29 U	0.27 U
lsopropylbenzene (Cumene)	UG/KG	2300	-	-	0.64 U	0.60 U	0.73 U	0.63 U	0.58 U
Methyl acetate	UG/KG	-	-	-	2.6 U	2.4 U	2.9 U	2.5 U	6.3 J
Methyl ethyl ketone (2- Butanone)	UG/KG	120	100000	5.00E+05	1.6 U	1.5 U	1.8 U	1.5 U	1.4 U

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, including CP-51 Table 1, Effective 12/2/10. Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, including CP-51 Table 1, Effective 12/2/10. Criteria (3)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial, including CP-51 Table 1, Effective 12/2/10.

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Concentration Exceeds Criteria (2)

Concentration Exceeds Criteria 1

Border Concentration Exceeds Criteria (3)

U - Not detected above the reported quantitation limit.

UJ - Not detected. The reported quantitation limit is an estimated value.

	Location	ID			PDI-01	PDI-02	PDI-03	PDI-04	PDI-05
	Sample	ID			PDI-1_0405	PDI-2_0203	PDI-3_0203	PDI-4_0304	PDI-5_0405
	Matrix	(			Soil	Soil	Soil	Soil	Soil
Dep	oth Interv	val (ft)			4.0-5.0	2.0-3.0	2.0-3.0	3.0-4.0	4.0-5.0
D	ate Sam	pled			04/27/22	04/27/22	04/27/22	04/28/22	04/28/22
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)					
Volatile Organic Compounds									
Methyl tert-butyl ether	UG/KG	930	100000	5.00E+05	0.42 U	0.39 U	0.47 U	0.41 U	0.38 U
Methylcyclohexane	UG/KG	-	-	-	0.65 U	0.61 U	0.73 U	0.63 U	0.67 J
Methylene chloride	UG/KG	50	100000	5.00E+05	2.0 U	1.8 U	2.2 U	1.9 U	1.8 U
Styrene	UG/KG	3.00E+05	-	-	0.21 U	0.20 U	0.24 U	0.21 U	0.19 U
Tetrachloroethene	UG/KG	1300	19000	1.50E+05	0.57 U	0.54 U	0.65 U	0.56 U	3.9
Toluene	UG/KG	700	100000	5.00E+05	0.32 U	0.30 U	0.37 U	0.31 U	0.29 U
Trichloroethene	UG/KG	470	21000	2.00E+05	0.94 U	0.88 U	1.1 U	0.92 U	0.85 U
Trichlorofluoromethane	UG/KG	-	-	-	0.40 U	0.38 U	0.46 U	0.39 U	0.37 U
Vinyl chloride	UG/KG	20	900	13000	0.52 U	0.49 U	0.59 U	0.51 U	0.47 U
Xylene (total)	UG/KG	260	100000	5.00E+05	0.71 U	0.67 U	0.81 U	0.70 U	0.65 U
Metals									
Aluminum	MG/KG	10000	-	-	8,810	9,690	4,250	8,780	6,530
Antimony	MG/KG	12	-	-	2.7 J	1.5 J	0.77 J	1.4 J	1.2 J
Arsenic	MG/KG	13	16	16	4.4	2.7	3.9	2.7	2.7
Barium	MG/KG	350	400	400	66.2	50	24.9	46.9	32.2
Beryllium	MG/KG	7.2	72	590	0.46	0.33	0.2 J	0.39	0.27
Cadmium	MG/KG	2.5	4.3	9.3	0.17 J	0.16 J	0.059 J	0.23 J	0.16 J
Calcium	MG/KG	10000	-	-	33,100	14,900	2,160		24,300
Chromium	MG/KG	30	180	1500	9.5	9.8	6.2	9.4	7.8
							1		

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, including CP-51 Table 1, Effective 12/2/10. Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, including CP-51 Table 1, Effective 12/2/10. Criteria (3)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (2)

Concentration Exceeds Criteria 1

Border Concentration Exceeds Criteria (3)

U - Not detected above the reported quantitation limit.

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	Location	ID			PDI-01	PDI-02	PDI-03	PDI-04	PDI-05
	Sample	ID			PDI-1_0405	PDI-2_0203	PDI-3_0203	PDI-4_0304	PDI-5_0405
	Matrix				Soil	Soil	Soil	Soil	Soil
D	epth Interv	/al (ft)			4.0-5.0	2.0-3.0	2.0-3.0	3.0-4.0	4.0-5.0
	Date Sam	pled			04/27/22	04/27/22	04/27/22	04/28/22	04/28/22
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)					
Metals									
Cobalt	MG/KG	20	-	-	5.7	4.3	2.5	4.8	4
Copper	MG/KG	50	270	270	18.2	11.7	11.6	11.6	25.7
Iron	MG/KG	2000	-	-			7,200		9,200
Lead	MG/KG	63	400	1000	37.7	14	3.4	7.3	6.4
Magnesium	MG/KG	-	-	-	6,160	5,100	1,240	7,030	13,300
Manganese	MG/KG	1600	2000	10000	553	361	207	654	387
Mercury	MG/KG	0.18	0.81	2.8	0.021 J	0.031	0.011 J	0.019 J	0.019 J
Nickel	MG/KG	30	310	310	10.3	8.3	5.8 J	10.3	8.3
Potassium	MG/KG	-	-	-	1,300	1,130	827	1,700	1,290
Selenium	MG/KG	3.9	180	1500	2 J	1.2 J	0.51 J	0.95 J	0.73 J
Silver	MG/KG	2	180	1500	0.24 U	0.24 U	0.24 U	0.24 U	0.22 U
Sodium	MG/KG	-	-	-	167 J	246	72.5 J	122 J	136 J
Thallium	MG/KG	5	-	-	0.36 U	0.36 U	0.37 U	0.36 U	0.34 U
Vanadium	MG/KG	39	-	-	17.7	18.2	8.8	15.3	12.9
Zinc	MG/KG	109	10000	10000	50.2	55.4	12.7	43.2	36.3 J

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, including CP-51 Table 1, Effective 12/2/10. Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, including CP-51 Table 1, Effective 12/2/10. Criteria (3)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial, including CP-51 Table 1, Effective 12/2/10.

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Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

Concentration Exceeds Criteria 1

U - Not detected above the reported quantitation limit.

UJ - Not detected. The reported quantitation limit is an estimated value.

L	ocation	ID			PDI-06	PDI-07	PDI-08	PDI-09	PDI-10
	Sample	ID			PDI-6_0304	PDI-7_0203	PDI-8_0405	PDI-9_0203	DUP_042822
	Matrix	ſ			Soil	Soil	Soil	Soil	Soil
Dept	th Interv	val (ft)			3.0-4.0	2.0-3.0	4.0-5.0	2.0-3.0	3.0-4.0
Da	te Sam	pled			04/27/22	04/27/22	04/27/22	04/28/22	04/28/22
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)					Field Duplicate (1-1)
Volatile Organic Compounds									
1,1,1-Trichloroethane	UG/KG	680	100000	5.00E+05	0.31 U	0.32 U	0.80 J	0.27 U	0.31 U
1,1,2,2-Tetrachloroethane	UG/KG	600	-	-	0.70 U	0.72 U	0.63 U	0.61 U	0.70 U
1,1,2-Trichloro-1,2,2- trifluoroethane	UG/KG	6000	-	-	0.98 U	1.0 U	0.88 U	0.85 U	0.99 U
1,1,2-Trichloroethane	UG/KG	-	-	-	0.56 U	0.58 U	0.50 U	0.49 U	0.56 U
1,1-Dichloroethane	UG/KG	270	26000	2.40E+05	0.52 U	0.54 U	0.47 U	0.46 U	0.53 U
1,1-Dichloroethene	UG/KG	330	100000	5.00E+05	0.52 U	0.55 U	0.47 U	0.46 U	0.53 U
1,2,4-Trichlorobenzene	UG/KG	3400	-	-	0.26 U	0.27 U	0.24 U	0.23 U	0.26 U
1,2-Dibromo-3- chloropropane	UG/KG	-	-	-	2.1 U	2.2 U	1.9 U	1.9 U	2.2 U
1,2-Dibromoethane (Ethylene dibromide)	UG/KG	-	-	-	0.55 U	0.57 U	0.50 U	0.48 U	0.56 U
1,2-Dichlorobenzene	UG/KG	1100	100000	5.00E+05	0.34 U	0.35 U	0.30 U	0.29 U	0.34 U
1,2-Dichloroethane	UG/KG	20	3100	30000	0.22 U	0.22 U	0.19 U	0.19 U	0.22 U
1,2-Dichloroethene (cis)	UG/KG	250	100000	5.00E+05	0.55 U	0.57 U	1.8 J	43	23
1,2-Dichloroethene (trans)	UG/KG	190	100000	5.00E+05	0.44 U	0.46 U	0.40 U	1.4 J	0.85 J
1,2-Dichloropropane	UG/KG	7.00E+05	-	-	2.1 U	2.2 U	1.9 U	1.9 U	2.2 U
1,3-Dichlorobenzene	UG/KG	2400	49000	2.80E+05	0.22 U	0.23 U	0.20 U	0.19 U	0.22 U
1,3-Dichloropropene (cis)	UG/KG	-	-	-	0.62 U	0.64 U	0.56 U	0.54 U	0.62 U
1,3-Dichloropropene (trans)	UG/KG	-	-	-	1.9 U	2.0 U	1.7 U	1.6 U	1.9 U
1,4-Dichlorobenzene	UG/KG	1800	13000	1.30E+05	0.60 U	0.62 U	0.54 U	0.52 U	0.61 U
2-Hexanone	UG/KG	-	-	-	2.1 U	2.2 U	1.9 U	1.9 U	2.2 U

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, including CP-51 Table 1, Effective 12/2/10. Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, including CP-51 Table 1, Effective 12/2/10. Criteria (3)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (2)

Concentration Exceeds Criteria 1

Border Concentration Exceeds Criteria (3)

U - Not detected above the reported quantitation limit.

UJ - Not detected. The reported quantitation limit is an estimated value.

	ocation	ID			PDI-06	PDI-07	PDI-08	PDI-09	PDI-10
	Sample	ID			PDI-6_0304	PDI-7_0203	PDI-8_0405	PDI-9_0203	DUP_042822
	Matrix				Soil	Soil	Soil	Soil	Soil
Dep	oth Interv	/al (ft)			3.0-4.0	2.0-3.0	4.0-5.0	2.0-3.0	3.0-4.0
D	ate Sam	pled			04/27/22	04/27/22	04/27/22	04/28/22	04/28/22
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)					Field Duplicate (1-1)
Volatile Organic Compounds									
4-Methyl-2-pentanone	UG/KG	1000	-	-	1.4 U	1.5 U	1.3 U	1.2 U	1.4 U
Acetone	UG/KG	50	100000	5.00E+05	29	3.8 U	3.8 J	13 J	14 J
Benzene	UG/KG	60	4800	44000	0.21 U	0.22 U	0.19 U	0.18 U	0.21 U
Bromodichloromethane	UG/KG	-	-	-	0.57 U	0.60 U	0.52 U	0.50 U	0.58 U
Bromoform	UG/KG	-	-	-	2.1 U	2.2 U	1.9 U	1.9 U	2.2 U
Bromomethane	UG/KG	-	-	-	0.39 U	0.40 U	0.35 U	0.34 U	0.39 U
Carbon disulfide	UG/KG	2700	-	-	2.1 U	2.2 U	1.9 U	1.9 U	2.2 U
Carbon tetrachloride	UG/KG	760	2400	22000	0.42 U	0.43 U	0.37 U	0.36 U	0.42 U
Chlorobenzene	UG/KG	1100	100000	5.00E+05	0.57 U	0.59 U	0.51 U	0.49 U	0.57 U
Chloroethane	UG/KG	1900	-	-	0.97 U	1.0 U	0.87 U	0.84 U	0.98 U
Chloroform	UG/KG	370	49000	3.50E+05	0.26 U	0.28 U	0.24 U	0.23 U	0.27 U
Chloromethane	UG/KG	-	-	-	0.26 U	0.27 U	0.23 U	0.23 U	0.26 U
Cyclohexane	UG/KG	-	-	-	0.60 U	0.62 U	0.54 U	0.52 U	0.61 U
Dibromochloromethane	UG/KG	10000	-	-	0.55 U	0.57 U	0.50 U	0.48 U	0.55 U
Dichlorodifluoromethane	UG/KG	-	-	-	0.35 U	0.37 U	0.32 U	0.31 U	0.36 U
Ethylbenzene	UG/KG	1000	41000	3.90E+05	0.30 U	0.31 U	0.27 U	0.26 U	0.30 U
Isopropylbenzene (Cumene)	UG/KG	2300	-	-	0.65 U	0.67 U	0.58 U	0.56 U	0.65 U
Methyl acetate	UG/KG	-	-	-	2.6 U	2.7 U	2.3 U	2.3 U	2.6 U
Methyl ethyl ketone (2- Butanone)	UG/KG	120	100000	5.00E+05	4.9 J	1.6 U	1.4 U	1.4 U	1.6 U

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, including CP-51 Table 1, Effective 12/2/10. Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, including CP-51 Table 1, Effective 12/2/10. Criteria (3)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (2)

Concentration Exceeds Criteria 1

Border Concentration Exceeds Criteria (3)

U - Not detected above the reported quantitation limit.

 $\ensuremath{\mathsf{UJ}}\xspace$  - Not detected. The reported quantitation limit is an estimated value.

	Location	ID			PDI-06	PDI-07	PDI-08	PDI-09	PDI-10
	Sample	ID			PDI-6_0304	PDI-7_0203	PDI-8_0405	PDI-9_0203	DUP_042822
	Matrix	ſ			Soil	Soil	Soil	Soil	Soil
Dep	oth Interv	val (ft)			3.0-4.0	2.0-3.0	4.0-5.0	2.0-3.0	3.0-4.0
D	ate Sam	pled			04/27/22	04/27/22	04/27/22	04/28/22	04/28/22
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)					Field Duplicate (1-1)
Volatile Organic Compounds									
Methyl tert-butyl ether	UG/KG	930	100000	5.00E+05	0.42 U	0.44 U	0.38 U	0.37 U	0.42 U
Methylcyclohexane	UG/KG	-	-	-	0.65 U	0.68 U	0.59 U	0.57 U	0.66 U
Methylene chloride	UG/KG	50	100000	5.00E+05	2.0 U	2.1 U	1.8 U	1.7 U	2.0 U
Styrene	UG/KG	3.00E+05	-	-	0.21 U	0.22 U	0.19 U	0.19 U	0.22 U
Tetrachloroethene	UG/KG	1300	19000	1.50E+05	0.58 U	0.60 U	0.93 J	1.2 J	1.6 J
Toluene	UG/KG	700	100000	5.00E+05	0.32 U	0.34 U	0.29 U	0.28 U	0.33 U
Trichloroethene	UG/KG	470	21000	2.00E+05	0.94 U	0.98 U	0.85 U	0.82 U	0.95 U
Trichlorofluoromethane	UG/KG	-	-	-	0.41 U	0.42 U	0.37 U	0.35 U	0.41 U
Vinyl chloride	UG/KG	20	900	13000	0.52 U	0.54 U	0.47 U	0.46 U	0.53 U
Xylene (total)	UG/KG	260	100000	5.00E+05	0.72 U	0.75 U	0.65 U	0.63 U	0.73 U
Metals									
Aluminum	MG/KG	10000	-	-		10,600	8,360	5,740	7,080
Antimony	MG/KG	12	-	-	2.6 J	1.4 J	1.2 J	1.1 J	1.4 J
Arsenic	MG/KG	13	16	16	3.6	2.7	2.7	2 J	2.9
Barium	MG/KG	350	400	400	59.6	34.4	56.4	36	39.8
Beryllium	MG/KG	7.2	72	590	0.49	0.26	0.33	0.26	0.28
Cadmium	MG/KG	2.5	4.3	9.3	0.14 J	0.15 J	0.18 J	0.11 J	0.25
Calcium	MG/KG	10000	-	-	22,400	18,100	5,980	22,100	32,400
Chromium	MG/KG	30	180	1500	13.6	9.1	8.7	7.5	8.5
1	1	1		1					L

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, including CP-51 Table 1, Effective 12/2/10. Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, including CP-51 Table 1, Effective 12/2/10. Criteria (3)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (2)

Concentration Exceeds Criteria 1

Border Concentration Exceeds Criteria (3)

U - Not detected above the reported quantitation limit.

UJ - Not detected. The reported quantitation limit is an estimated value.

	Location	ID			PDI-06	PDI-07	PDI-08	PDI-09	PDI-10
	Sample	ID			PDI-6_0304	PDI-7_0203	PDI-8_0405	PDI-9_0203	DUP_042822
	Matrix	[			Soil	Soil	Soil	Soil	Soil
D	epth Interv	/al (ft)			3.0-4.0	2.0-3.0	4.0-5.0	2.0-3.0	3.0-4.0
	Date Sam	pled			04/27/22	04/27/22	04/27/22	04/28/22	04/28/22
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)					Field Duplicate (1-1)
Metals									
Cobalt	MG/KG	20	-	-	6.1	3	5.6	4.2	4.4
Copper	MG/KG	50	270	270	14.2	10	25.8	10.3	12.9
Iron	MG/KG	2000	-	-		9,340	9,440	9,030	10,100
Lead	MG/KG	63	400	1000	10.8	9.8	12.7	4.2	5.8
Magnesium	MG/KG	-	-	-	6,360	3,510	1,960	4,980	5,530
Manganese	MG/KG	1600	2000	10000	310	236	481	427	366
Mercury	MG/KG	0.18	0.81	2.8	0.02 J	0.039	0.025	0.012 J	0.013 J
Nickel	MG/KG	30	310	310	13.7	6.4	9.8	9.1	9.1
Potassium	MG/KG	-	-	-	2,220	1,060	1,370	1,300	1,150
Selenium	MG/KG	3.9	180	1500	1.4 J	1 J	0.76 J	0.62 J	0.91 J
Silver	MG/KG	2	180	1500	0.24 U	0.25 U	0.24 U	0.22 U	0.23 U
Sodium	MG/KG	-	-	-	193	241	122 J	146 J	135 J
Thallium	MG/KG	5	-	-	0.37 U	0.37 U	0.36 U	0.33 U	0.34 U
Vanadium	MG/KG	39	-	-	23.9	15.7	13.8	13.2	15
Zinc	MG/KG	109	10000	10000	37.9	39.2	37.3	22.1	79.3 J

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, including CP-51 Table 1, Effective 12/2/10. Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, including CP-51 Table 1, Effective 12/2/10. Criteria (3)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

Concentration Exceeds Criteria 1

U - Not detected above the reported quantitation limit.

UJ - Not detected. The reported quantitation limit is an estimated value.

L	ocation	ID			PDI-10	PDI-11	PDI-12
	Sample	ID			PDI-10_0304	PDI-11_0304	PDI-12_0405
	Matrix				Soil	Soil	Soil
Dep	th Interv	/al (ft)			3.0-4.0	3.0-4.0	4.0-5.0
Da	te Sam	oled			04/28/22	04/28/22	04/28/22
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)			
Volatile Organic Comp	ounds						
1,1,1-Trichloroethane	UG/KG	680	100000	5.00E+05	0.29 U	0.31 U	0.31 U
1,1,2,2-Tetrachloroethane	UG/KG	600	-	-	0.64 U	0.69 U	0.70 U
1,1,2-Trichloro-1,2,2- trifluoroethane	UG/KG	6000	-	-	0.90 U	0.97 U	0.98 U
1,1,2-Trichloroethane	UG/KG	-	-	-	0.51 U	0.56 U	0.56 U
1,1-Dichloroethane	UG/KG	270	26000	2.40E+05	0.48 U	0.52 U	0.53 U
1,1-Dichloroethene	UG/KG	330	100000	5.00E+05	0.48 U	0.52 U	0.53 U
1,2,4-Trichlorobenzene	UG/KG	3400	-	-	0.24 U	0.26 U	0.26 U
1,2-Dibromo-3- chloropropane	UG/KG	-	-	-	2.0 U	2.1 U	2.2 U
1,2-Dibromoethane (Ethylene dibromide)	UG/KG	-	-	-	0.51 U	0.55 U	0.55 U
1,2-Dichlorobenzene	UG/KG	1100	100000	5.00E+05	0.31 U	0.33 U	0.34 U
1,2-Dichloroethane	UG/KG	20	3100	30000	0.20 U	0.21 U	0.22 U
1,2-Dichloroethene (cis)	UG/KG	250	100000	5.00E+05	20	1.7 J	0.55 U
1,2-Dichloroethene (trans)	UG/KG	190	100000	5.00E+05	0.61 J	0.44 U	0.44 U
1,2-Dichloropropane	UG/KG	7.00E+05	-	-	2.0 U	2.1 U	2.2 U
1,3-Dichlorobenzene	UG/KG	2400	49000	2.80E+05	0.20 U	0.22 U	0.22 U
1,3-Dichloropropene (cis)	UG/KG	-	-	-	0.57 U	0.62 U	0.62 U
1,3-Dichloropropene (trans)	UG/KG	-	-	-	1.7 U	1.9 U	1.9 U
1,4-Dichlorobenzene	UG/KG	1800	13000	1.30E+05	0.55 U	0.60 U	0.60 U
2-Hexanone	UG/KG	-	-	-	2.0 U	2.1 U	2.2 U

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, including CP-51 Table 1, Effective 12/2/10. Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, including CP-51 Table 1, Effective 12/2/10. Criteria (3)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (2)

Concentration Exceeds Criteria 1

Border Concentration Exceeds Criteria (3)

U - Not detected above the reported quantitation limit.

UJ - Not detected. The reported quantitation limit is an estimated value.

	Location	ID			PDI-10	PDI-11	PDI-12
	Sample	ID			PDI-10_0304	PDI-11_0304	PDI-12_0405
	Matrix				Soil	Soil	Soil
Dep	oth Interv	al (ft)			3.0-4.0	3.0-4.0	4.0-5.0
D	ate Sam	oled			04/28/22	04/28/22	04/28/22
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)			
Volatile Organic Com	ounds						
4-Methyl-2-pentanone	UG/KG	1000	-	-	1.3 U	1.4 U	1.4 U
Acetone	UG/KG	50	100000	5.00E+05	12 J	3.6 U	48
Benzene	UG/KG	60	4800	44000	0.19 U	0.21 U	0.21 U
Bromodichloromethane	UG/KG	-	-	-	0.53 U	0.57 U	0.58 U
Bromoform	UG/KG	-	-	-	2.0 U	2.1 U	2.2 U
Bromomethane	UG/KG	-	-	-	0.36 U	0.38 U	0.39 U
Carbon disulfide	UG/KG	2700	-		2.0 U	2.1 U	2.2 U
Carbon tetrachloride	UG/KG	760	2400	22000	0.38 U	0.41 U	0.42 U
Chlorobenzene	UG/KG	1100	100000	5.00E+05	0.52 U	0.56 U	0.57 U
Chloroethane	UG/KG	1900	-		0.89 U	0.97 U	0.97 U
Chloroform	UG/KG	370	49000	3.50E+05	0.24 U	0.26 U	0.27 U
Chloromethane	UG/KG	-	-	-	0.24 U	0.26 U	0.26 U
Cyclohexane	UG/KG	-	-	-	0.55 U	0.60 U	0.60 U
Dibromochloromethane	UG/KG	10000	-	-	0.51 U	0.55 U	0.55 U
Dichlorodifluoromethane	UG/KG	-	-	-	0.33 U	0.35 U	0.36 U
Ethylbenzene	UG/KG	1000	41000	3.90E+05	0.27 U	0.30 U	0.30 U
lsopropylbenzene (Cumene)	UG/KG	2300	-	-	0.60 U	0.64 U	0.65 U
Methyl acetate	UG/KG	-	-	-	2.4 U	2.6 U	2.6 U
Methyl ethyl ketone (2- Butanone)	UG/KG	120	100000	5.00E+05	1.4 U	1.6 U	3.8 J

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, including CP-51 Table 1, Effective 12/2/10. Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, including CP-51 Table 1, Effective 12/2/10. Criteria (3)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.



Border Concentration Exceeds Criteria (2) Concentration Exceeds Criteria (3)

Concentration Exceeds Criteria 1

U - Not detected above the reported quantitation limit.

UJ - Not detected. The reported quantitation limit is an estimated value.

	Location	ID			PDI-10	PDI-11	PDI-12
	Sample	ID			PDI-10_0304	PDI-11_0304	PDI-12_0405
	Matrix				Soil	Soil	Soil
Dej	oth Interv	/al (ft)			3.0-4.0	3.0-4.0	4.0-5.0
D	ate Sam	pled			04/28/22	04/28/22	04/28/22
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)			
Volatile Organic Com	pounds						
Methyl tert-butyl ether	UG/KG	930	100000	5.00E+05	0.39 U	0.42 U	0.42 U
Methylcyclohexane	UG/KG	-	-		0.60 U	0.65 U	0.65 U
Methylene chloride	UG/KG	50	100000	5.00E+05	1.8 U	2.0 U	2.0 U
Styrene	UG/KG	3.00E+05	-	-	0.20 U	0.21 U	0.22 U
Tetrachloroethene	UG/KG	1300	19000	1.50E+05	2.3 J	0.57 U	0.58 U
Toluene	UG/KG	700	100000	5.00E+05	0.30 U	0.32 U	0.33 U
Trichloroethene	UG/KG	470	21000	2.00E+05	0.87 U	0.94 U	0.95 U
Trichlorofluoromethane	UG/KG	-	-	-	0.37 U	0.40 U	0.41 U
Vinyl chloride	UG/KG	20	900	13000	0.48 U	0.52 U	0.53 U
Xylene (total)	UG/KG	260	100000	5.00E+05	0.66 U	0.72 U	0.72 U
Metals							
Aluminum	MG/KG	10000	-	-	5,700	6,790	
Antimony	MG/KG	12	-	-	1.3 J	1.8 J	2.4 J
Arsenic	MG/KG	13	16	16	2.5	2.5	3.3
Barium	MG/KG	350	400	400	34.5	42.2	57
Beryllium	MG/KG	7.2	72	590	0.24	0.32	0.67
Cadmium	MG/KG	2.5	4.3	9.3	0.12 J	0.13 J	0.076 J
Calcium	MG/KG	10000	-	-	24,600	31,000	2,690
Chromium	MG/KG	30	180	1500	7	9.2	14.8

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, including CP-51 Table 1, Effective 12/2/10. Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, including CP-51 Table 1, Effective 12/2/10. Criteria (3)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (2)

Concentration Exceeds Criteria 1

Border Concentration Exceeds Criteria (3)

U - Not detected above the reported quantitation limit.

UJ - Not detected. The reported quantitation limit is an estimated value.

	Location	ID			PDI-10	PDI-11	PDI-12
	Sample	ID			PDI-10_0304	PDI-11_0304	PDI-12_0405
	Matrix				Soil	Soil	Soil
	Depth Interv	/al (ft)			3.0-4.0	3.0-4.0	4.0-5.0
	Date Sam	oled			04/28/22	04/28/22	04/28/22
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)			
Metals							
Cobalt	MG/KG	20	-	-	3.8	4.6	7.4
Copper	MG/KG	50	270	270	10.6	13.7	15.7
Iron	MG/KG	2000	-	-	9,400		18,700
Lead	MG/KG	63	400	1000	4.9	5.6	9
Magnesium	MG/KG	-	-	-	7,220	7,940	2,440
Manganese	MG/KG	1600	2000	10000	372	317	373
Mercury	MG/KG	0.18	0.81	2.8	0.023	0.012 J	0.025
Nickel	MG/KG	30	310	310	7.6	9.5	10.5
Potassium	MG/KG	-	-	-	1,030	1,470	1,520
Selenium	MG/KG	3.9	180	1500	1 J	1.1 J	1.7 J
Silver	MG/KG	2	180	1500	0.22 U	0.22 U	0.23 U
Sodium	MG/KG	-	-	-	130 J	153 J	95.7 J
Thallium	MG/KG	5	-	-	0.33 U	0.34 U	0.34 U
Vanadium	MG/KG	39	-	-	13.3	15.9	30.3
Zinc	MG/KG	109	10000	10000	23 J	25.2	27.9

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, including CP-51 Table 1, Effective 12/2/10. Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, including CP-51 Table 1, Effective 12/2/10. Criteria (3)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

Concentration Exceeds Criteria 1

U - Not detected above the reported quantitation limit.

UJ - Not detected. The reported quantitation limit is an estimated value.

Location ID			MW-05R	MW-07	MW-14	MW-16	MW-17
Sample ID			MW-05R	MW-07	MW-14	MW-16	MW-17 Groundwater
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	
Depth Interval (ff	Depth Interval (ft)		-	-	-	-	-
Date Sampled			05/09/22	05/09/22	05/09/22	05/10/22	05/10/22
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5	1.2	1.0 U	1.0 U	2.0 U	2.0 U
1,1,2,2-Tetrachloroethane	UG/L	5	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,1,2-Trichloroethane	UG/L	1	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,1-Dichloroethane	UG/L	5	22	0.83 J	1.0 U	2.0 U	2.0 U
1,1-Dichloroethene	UG/L	5	0.29 J	1.0 U	1.0 U	2.0 U	2.0 U
1,2,4-Trichlorobenzene	UG/L	5	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,2-Dibromo-3-chloropropane	UG/L	0.04	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	0.006	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	UG/L	3	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,2-Dichloroethane	UG/L	0.6	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,2-Dichloroethene (cis)	UG/L	5	210 D	2.8	1.0 U	2.0 U	2.0 U
1,2-Dichloroethene (trans)	UG/L	5	1.7	1.0 U	1.0 U	2.0 U	2.0 U
1,2-Dichloropropane	UG/L	1	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,3-Dichlorobenzene	UG/L	3	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,3-Dichloropropene (cis)	UG/L	0.4	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,3-Dichloropropene (trans)	UG/L	0.4	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene	UG/L	3	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
2-Hexanone	UG/L	50	5.0 U	5.0 U	5.0 U	10 U	10 U
4-Methyl-2-pentanone	UG/L	-	5.0 U	5.0 U	5.0 U	10 U	10 U
Acetone	UG/L	50	10 U	10 U	10 U	20 U	20 U
Benzene	UG/L	1	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U

\*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda) Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit.

UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value.

D - Result reported from a secondary dilution analysis.

Location ID			MW-05R	MW-07	MW-14	MW-16	MW-17
Sample ID			MW-05R	MW-07	MW-14	MW-16	MW-17 Groundwater -
Matrix			Groundwater -	Groundwater -	Groundwater	Groundwater	
Depth Interval (	ft)				- 05/09/22	- 05/10/22	
Date Sampled	1		05/09/22	05/09/22			05/10/22
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Bromodichloromethane	UG/L	50	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Bromoform	UG/L	50	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Bromomethane	UG/L	5	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Carbon disulfide	UG/L	60	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Carbon tetrachloride	UG/L	5	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Chlorobenzene	UG/L	5	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Chloroethane	UG/L	5	0.51 J	1.0 U	1.0 U	2.0 U	2.0 U
Chloroform	UG/L	7	1.5	1.0 U	1.0 U	2.0 U	2.0 U
Chloromethane	UG/L	5	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Cyclohexane	UG/L	-	0.24 J	1.0 U	1.0 U	2.0 U	2.0 U
Dibromochloromethane	UG/L	50	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Dichlorodifluoromethane	UG/L	5	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Ethylbenzene	UG/L	5	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Isopropylbenzene (Cumene)	UG/L	5	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Methyl acetate	UG/L	-	2.5 U	2.5 U	2.5 U	5.0 U	5.0 U
Methyl ethyl ketone (2-Butanone)	UG/L	50	10 U	10 U	10 U	20 U	20 U
Methyl tert-butyl ether	UG/L	10	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Methylcyclohexane	UG/L	-	0.21 J	1.0 U	1.0 U	2.0 U	2.0 U
Methylene chloride	UG/L	5	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Styrene	UG/L	5	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Tetrachloroethene	UG/L	5	5.7	4.2	1.0 U	2.0 U	2.0 U
Toluene	UG/L	5	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U

\*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda) Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit.

UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value.

D - Result reported from a secondary dilution analysis.

Location ID			MW-05R	MW-07	MW-14	MW-16	MW-17
Sample ID			MW-05R	MW-07	MW-14	MW-16	MW-17
Matrix			Groundwater -	Groundwater	Groundwater	Groundwater	Groundwater -
Depth Interval (	ft)			-	-	- 05/10/22	
Date Sampled			05/09/22	05/09/22	05/09/22		05/10/22
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Trichloroethene	UG/L	5		6.1	1.0 U	2.0 U	2.0 U
Trichlorofluoromethane	UG/L	5	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Vinyl chloride	UG/L	2	2.4	1.0 U	1.0 U	2.0 U	2.0 U
Xylene (total)	UG/L	5	2.0 U	2.0 U	2.0 U	4.0 U	4.0 U
Metals							
Aluminum	UG/L	-	100 J	110 J	200 U	200 U	85 J
Antimony	UG/L	3	20 U	20 U	20 U	20 U	20 U
Arsenic	UG/L	25	15 U	15 U	15 U	22	9.3 J
Barium	UG/L	1000	160	190	92	1,300	200
Beryllium	UG/L	3	2 U	2 U	2 U	2 U	2 U
Cadmium	UG/L	5	2 U	2 U	2 U	2 U	2 U
Calcium	UG/L	-	105,000	118,000	153,000	230,000	210,000
Chromium	UG/L	50	4 U	4 U	4 U	4 U	4 U
Cobalt	UG/L	-	4 U	4.3	1.3 J	140	1.2 J
Copper	UG/L	200	10 U	10 U	10 U	20 U	10 U
Iron	UG/L	300	160	820	1,700	30,100	20,800
Lead	UG/L	25	10 U	10 U	3.3 J	5.4 J	4.2 J
Magnesium	UG/L	35000	13,800	14,400	19,800	40,600	38,200
Manganese	UG/L	300	1,000	2,100	670	19,600	2,500
Mercury	UG/L	0.7	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	UG/L	100	1.9 J	1.5 J	2.8 J	15	10 U
Potassium	UG/L	-	5,400	3,800	7,500	7,800	9,300

\*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda) Class GA.

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Location ID			MW-05R	MW-07	MW-14	MW-16	MW-17
Sample ID			MW-05R	MW-07	MW-14	MW-16	MW-17
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (	Depth Interval (ft)		-	-	-	-	-
Date Sampled			05/09/22	05/09/22	05/09/22	05/10/22	05/10/22
Parameter	Units	Criteria*					
Metals							
Selenium	UG/L	10	25 U				
Silver	UG/L	50	6 U	6 U	6 U	6 U	6 U
Sodium	UG/L	20000	30,900	18,900	83,600	406,000	122,000
Thallium	UG/L	0.5	20 U				
Vanadium	UG/L	-	5 U	5 U	5 U	1.5 J	1.7 J
Zinc	UG/L	2000	10 U	10 U	130	40	3.1 J
Dissolved Metals							
Iron	MG/L	-	0.033 J	0.95	NA	NA	NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO3)	MG/L	-	229	347	NA	NA	NA
Chloride	MG/L	250	65.2	28.6	NA	NA	NA
Nitrate-Nitrogen	MG/L	10	0.83	0.053	NA	NA	NA
Sulfate (as SO4)	MG/L	2.50E+05	86.5	24.4	NA	NA	NA
Dissolved Gases							
Methane	UG/L	-	73	21	NA	NA	NA

\*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda) Class GA.

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Location ID			MW-19R	MW-21	MW-21	MW-22	PDI-01
Sample ID			MW-19R	FD-051022	MW-21	MW-22	PDI-1_GW
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (f	t)		-	- 1	- 05/10/22	- 05/09/22	-
Date Sampled			05/10/22	05/10/22			04/27/22
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	5	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
1,1-Dichloroethane	UG/L	5	2.0 U			2.3	1.0 U
1,1-Dichloroethene	UG/L	5	2.0 U	1.3 J	1.3 J	2.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	5	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	0.04	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	0.006	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	3	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
1,2-Dichloroethane	UG/L	0.6	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	5	2.0 U		60		1.0 U
1,2-Dichloroethene (trans)	UG/L	5	2.0 U	2.0 U	2.0 U	1.8 J	1.0 U
1,2-Dichloropropane	UG/L	1	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	3	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	0.4	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	0.4	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	3	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
2-Hexanone	UG/L	50	10 U	10 U	10 U	10 U	5.0 U
4-Methyl-2-pentanone	UG/L	-	10 U	10 U	10 U	10 U	5.0 U
Acetone	UG/L	50	8.9 J	20 U	20 U	20 U	10 U
Benzene	UG/L	1	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U

\*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda) Class GA.

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Location ID			MW-19R	MW-21	MW-21	MW-22	PDI-01
Sample ID			MW-19R	FD-051022	MW-21	MW-22	PDI-1_GW
Matrix			Groundwater -	Groundwater -	Groundwater	Groundwater	Groundwater -
Depth Interval (	ft)				- 05/10/22	-	
Date Sampled			05/10/22	05/10/22		05/09/22	04/27/22
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Volatile Organic Compounds							
Bromodichloromethane	UG/L	50	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
Bromoform	UG/L	50	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
Bromomethane	UG/L	5	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
Carbon disulfide	UG/L	60	2.0 U	2.0 U	2.0 U	2.0 U	0.34 J
Carbon tetrachloride	UG/L	5	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
Chlorobenzene	UG/L	5	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
Chloroethane	UG/L	5	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
Chloroform	UG/L	7	0.68 J	2.0 U	2.0 U	1.2 J	1.0 U
Chloromethane	UG/L	5	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
Cyclohexane	UG/L	-	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
Dibromochloromethane	UG/L	50	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
Dichlorodifluoromethane	UG/L	5	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
Ethylbenzene	UG/L	5	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	5	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
Methyl acetate	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	2.5 U
Methyl ethyl ketone (2-Butanone)	UG/L	50	20 U	20 U	20 U	20 U	10 U
Methyl tert-butyl ether	UG/L	10	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
Methylcyclohexane	UG/L	-	2.0 U	2.0 U	2.0 U	2.0 U	0.24 J
Methylene chloride	UG/L	5	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
Styrene	UG/L	5	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
Tetrachloroethene	UG/L	5	2.0 U	2.0 U	2.0 U	0.75 J	1.0 U
Toluene	UG/L	5	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U

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Location ID			MW-19R	MW-21	MW-21	MW-22	PDI-01
Sample ID			MW-19R	FD-051022	MW-21	MW-22	PDI-1_GW
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (f	t)		-	-	-	-	-
Date Sampled		05/10/22	05/10/22	05/10/22	05/09/22	04/27/22	
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Volatile Organic Compounds							
Trichloroethene	UG/L	5	2.0 U			1.5 J	1.0 U
Trichlorofluoromethane	UG/L	5	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
Vinyl chloride	UG/L	2	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
Xylene (total)	UG/L	5	4.0 U	4.0 U	4.0 U	4.0 U	2.0 U
Metals							
Aluminum	UG/L	-	1,400	72 J	120 J	8,900	NA
Antimony	UG/L	3	20 U	20 U	20 U	20 U	NA
Arsenic	UG/L	25	15 U	15 U	15 U	6.2 J	NA
Barium	UG/L	1000	110	1,300	1,300	570	NA
Beryllium	UG/L	3	2 U	2 U	2 U	0.34 J	NA
Cadmium	UG/L	5	2 U	0.57 J	0.61 J	2 U	NA
Calcium	UG/L	-	111,000	395,000	402,000	139,000	NA
Chromium	UG/L	50	1.5 J	1.3 J	1.3 J	9.6	NA
Cobalt	UG/L	-	1.9 J	3.4 J	3.5 J	7.2	NA
Copper	UG/L	200	10 U	10 U	10 U	36 U	NA
Iron	UG/L	300	1,500	210	220	(11,400 J	NA
Lead	UG/L	25	10 U	10 U	10 U	9 J	NA
Magnesium	UG/L	35000	19,400	66,700	67,800	34,500	NA
Manganese	UG/L	300	5,500	4,700	4,800	2,600	NA
Mercury	UG/L	0.7	0.2 U	0.2 U	0.2 U	0.2 U	NA
Nickel	UG/L	100	3.2 J	3.1 J	3.3 J	15	NA
Potassium	UG/L	-	7,200	5,600	5,700	39,500	NA

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Location ID			MW-19R	MW-21	MW-21	MW-22	PDI-01
Sample ID			MW-19R	FD-051022	MW-21	MW-22	PDI-1_GW
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval	(ft)		-	-	- 05/10/22	- 05/09/22	-
Date Sampled	ł		05/10/22	05/10/22			04/27/22
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Metals							
Selenium	UG/L	10	25 U	25 U	25 U	25 U	NA
Silver	UG/L	50	6 U	6 U	6 U	6 U	NA
Sodium	UG/L	20000	157,000	1,190,000	1,200,000	170,000	NA
Thallium	UG/L	0.5	20 U	20 U	20 U	20 U	NA
Vanadium	UG/L	-	2.5 J	5 U	5 U	15	NA
Zinc	UG/L	2000	6.1 J	2.9 J	4 J	34	NA
Dissolved Metals							
Iron	MG/L	-	NA	0.16	0.16	2.4	NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO3)	MG/L	-	NA	186	188	637 J	NA
Chloride	MG/L	250	NA	2,830	2,900	133	NA
Nitrate-Nitrogen	MG/L	10	NA	0.050 U	0.050 U	0.050 U	NA
Sulfate (as SO4)	MG/L	2.50E+05	NA	76.4	77.3	94.8	NA
Dissolved Gases							
Methane	UG/L	-	NA	240	280	230	NA

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Location ID			PDI-02	PDI-03	PDI-04	PDI-05	PDI-06
Sample ID			PDI-2_GW	PDI-3_GW	PDI-4_GW	PDI-5_GW	PDI-6_GW
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (f	t)		-	-	- 04/28/22	- 04/28/22	-
Date Sampled			04/27/22	04/27/22			04/27/22
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	5	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
1,1,2-Trichloroethane	UG/L	1	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
1,1-Dichloroethane	UG/L	5	1.0 U	4.7 J	410 J	1.0 UJ	1.0 U
1,1-Dichloroethene	UG/L	5	1.0 U	8.0 U		1.0 UJ	1.0 U
1,2,4-Trichlorobenzene	UG/L	5	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	0.04	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	0.006	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
1,2-Dichlorobenzene	UG/L	3	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
1,2-Dichloroethane	UG/L	0.6	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
1,2-Dichloroethene (cis)	UG/L	5	1.0 U	300	1,400 J	1.0 UJ	1.0 U
1,2-Dichloroethene (trans)	UG/L	5	1.0 U	8.0 U	37 J	1.0 UJ	1.0 U
1,2-Dichloropropane	UG/L	1	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
1,3-Dichlorobenzene	UG/L	3	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
1,3-Dichloropropene (cis)	UG/L	0.4	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
1,3-Dichloropropene (trans)	UG/L	0.4	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
1,4-Dichlorobenzene	UG/L	3	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
2-Hexanone	UG/L	50	5.0 U	40 U	100 UJ	5.0 UJ	5.0 U
4-Methyl-2-pentanone	UG/L	-	5.0 U	40 U	100 UJ	5.0 UJ	5.0 U
Acetone	UG/L	50	6.4 J	80 U	73 J	15 J	3.4 J
Benzene	UG/L	1	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U

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Location ID			PDI-02	PDI-03	PDI-04	PDI-05	PDI-06
Sample ID			PDI-2_GW	PDI-3_GW	PDI-4_GW	PDI-5_GW	PDI-6_GW
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (	ft)		-	-	-	-	-
Date Sampled		04/27/22	04/27/22	04/28/22	04/28/22	04/27/22	
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Bromodichloromethane	UG/L	50	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
Bromoform	UG/L	50	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
Bromomethane	UG/L	5	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
Carbon disulfide	UG/L	60	1.0 U	8.0 U	20 UJ	0.48 J	1.0 U
Carbon tetrachloride	UG/L	5	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
Chlorobenzene	UG/L	5	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
Chloroethane	UG/L	5	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
Chloroform	UG/L	7	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
Chloromethane	UG/L	5	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
Cyclohexane	UG/L	-	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
Dibromochloromethane	UG/L	50	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
Dichlorodifluoromethane	UG/L	5	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
Ethylbenzene	UG/L	5	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
Isopropylbenzene (Cumene)	UG/L	5	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
Methyl acetate	UG/L	-	2.5 U	20 U	50 UJ	2.5 UJ	2.5 U
Methyl ethyl ketone (2-Butanone)	UG/L	50	10 U	80 U	200 UJ	2.4 J	10 U
Methyl tert-butyl ether	UG/L	10	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
Methylcyclohexane	UG/L	-	1.0 U	8.0 U	20 UJ	0.23 J	1.0 U
Methylene chloride	UG/L	5	0.53 J	8.0 U	20 UJ	1.0 UJ	1.0 U
Styrene	UG/L	5	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
Tetrachloroethene	UG/L	5	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
Toluene	UG/L	5	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U

\*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda) Class GA.

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Location ID			PDI-02	PDI-03	PDI-04	PDI-05	PDI-06
Sample ID Matrix Depth Interval (ft) Date Sampled			PDI-2_GW	PDI-3_GW	PDI-4_GW	PDI-5_GW	PDI-6_GW
			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
			-	- 04/27/22	- 04/28/22	-	- 04/27/22
			04/27/22			04/28/22	
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Trichloroethene	UG/L	5	1.0 U	8.0 U		1.0 UJ	1.0 U
Trichlorofluoromethane	UG/L	5	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
Vinyl chloride	UG/L	2	1.0 U	8.0 U	250 J	1.0 UJ	1.0 U
Xylene (total)	UG/L	5	2.0 U	16 U	40 UJ	2.0 UJ	2.0 U
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Antimony	UG/L	3	NA	NA	NA	NA	NA
Arsenic	UG/L	25	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Beryllium	UG/L	3	NA	NA	NA	NA	NA
Cadmium	UG/L	5	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Copper	UG/L	200	NA	NA	NA	NA	NA
Iron	UG/L	300	NA	NA	NA	NA	NA
Lead	UG/L	25	NA	NA	NA	NA	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Mercury	UG/L	0.7	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA

\*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda) Class GA.

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D - Result reported from a secondary dilution analysis.

Location ID Sample ID Matrix Depth Interval (ft)			PDI-02	PDI-03	PDI-04	PDI-05	PDI-06								
			PDI-2_GW Groundwater -	PDI-3_GW Groundwater -	PDI-4_GW Groundwater -	PDI-5_GW Groundwater -	PDI-6_GW Groundwater -								
								Date Sampled	l		04/27/22	04/27/22	04/28/22	04/28/22	04/27/22
								Parameter	Units	Criteria*					
Metals															
Selenium	UG/L	10	NA	NA	NA	NA	NA								
Silver	UG/L	50	NA	NA	NA	NA	NA								
Sodium	UG/L	20000	NA	NA	NA	NA	NA								
Thallium	UG/L	0.5	NA	NA	NA	NA	NA								
Vanadium	UG/L	-	NA	NA	NA	NA	NA								
Zinc	UG/L	2000	NA	NA	NA	NA	NA								
Dissolved Metals															
Iron	MG/L	-	NA	NA	NA	NA	NA								
Miscellaneous Parameters															
Alkalinity, Total (as CaCO3)	MG/L	-	NA	NA	NA	NA	NA								
Chloride	MG/L	250	NA	NA	NA	NA	NA								
Nitrate-Nitrogen	MG/L	10	NA	NA	NA	NA	NA								
Sulfate (as SO4)	MG/L	2.50E+05	NA	NA	NA	NA	NA								
Dissolved Gases															
Methane	UG/L	-	NA	NA	NA	NA	NA								

\*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda) Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit.

UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value.

D - Result reported from a secondary dilution analysis.

Location ID			PDI-07	PDI-08	PDI-09	PDI-10	PDI-11
Sample ID Matrix Depth Interval (ft)			PDI-7_GW	PDI-8_GW	PDI-9_GW	PDI-10_GW	PDI-11_GW
			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
			-	-	-	-	-
Date Sampled			04/27/22	04/27/22	04/28/22	04/28/22	04/28/22
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
1,1,2,2-Tetrachloroethane	UG/L	5	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
1,1,2-Trichloroethane	UG/L	1	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
1,1-Dichloroethane	UG/L	5	1.0 U	0.83 J	8.3 J	(15 J)	53 J
1,1-Dichloroethene	UG/L	5	1.0 U	1.0 U	1.2 J	5.0 UJ	5.0 UJ
1,2,4-Trichlorobenzene	UG/L	5	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
1,2-Dibromo-3-chloropropane	UG/L	0.04	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
1,2-Dibromoethane (Ethylene dibromide)	UG/L	0.006	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
1,2-Dichlorobenzene	UG/L	3	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
1,2-Dichloroethane	UG/L	0.6	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
1,2-Dichloroethene (cis)	UG/L	5	1.0 U		87 J	140 J	300 J
1,2-Dichloroethene (trans)	UG/L	5	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
1,2-Dichloropropane	UG/L	1	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
1,3-Dichlorobenzene	UG/L	3	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
1,3-Dichloropropene (cis)	UG/L	0.4	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
1,3-Dichloropropene (trans)	UG/L	0.4	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
1,4-Dichlorobenzene	UG/L	3	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
2-Hexanone	UG/L	50	5.0 U	5.0 U	10 UJ	25 UJ	25 UJ
4-Methyl-2-pentanone	UG/L	-	5.0 U	5.0 U	10 UJ	25 UJ	25 UJ
Acetone	UG/L	50	4.2 J	3.4 J	11 J	50 UJ	73 J
Benzene	UG/L	1	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ

\*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda) Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit.

UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value.

D - Result reported from a secondary dilution analysis.

Location ID			PDI-07	PDI-08	PDI-09	PDI-10	PDI-11
Sample ID Matrix Depth Interval (ft)			PDI-7_GW	PDI-8_GW	PDI-9_GW	PDI-10_GW	PDI-11_GW
			Groundwater -	Groundwater -	Groundwater -	Groundwater -	Groundwater -
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Bromodichloromethane	UG/L	50	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
Bromoform	UG/L	50	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
Bromomethane	UG/L	5	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
Carbon disulfide	UG/L	60	0.68 J	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
Carbon tetrachloride	UG/L	5	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
Chlorobenzene	UG/L	5	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
Chloroethane	UG/L	5	1.0 U	1.0 U	2.0 UJ	5.0 UJ	2.1 J
Chloroform	UG/L	7	0.67 J	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
Chloromethane	UG/L	5	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
Cyclohexane	UG/L	-	1.0 U	0.23 J	2.0 UJ	5.0 UJ	5.0 UJ
Dibromochloromethane	UG/L	50	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
Dichlorodifluoromethane	UG/L	5	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
Ethylbenzene	UG/L	5	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene (Cumene)	UG/L	5	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
Methyl acetate	UG/L	-	2.5 U	2.5 U	5.0 UJ	13 UJ	13 UJ
Methyl ethyl ketone (2-Butanone)	UG/L	50	10 U	10 U	20 UJ	50 UJ	50 UJ
Methyl tert-butyl ether	UG/L	10	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
Methylcyclohexane	UG/L	-	1.0 U	0.34 J	2.0 UJ	5.0 UJ	5.0 UJ
Methylene chloride	UG/L	5	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
Styrene	UG/L	5	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
Tetrachloroethene	UG/L	5	1.0 U	1.5	9.0 J	5.0 UJ	6.3 J
Toluene	UG/L	5	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ

\*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda) Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit.

UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value.

D - Result reported from a secondary dilution analysis.

Location ID			PDI-07	PDI-08	PDI-09	PDI-10	PDI-11
Sample ID Matrix Depth Interval (ft) Date Sampled			PDI-7_GW	PDI-8_GW	PDI-9_GW	PDI-10_GW	PDI-11_GW
			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
			-	-	-	-	-
			04/27/22	04/27/22	04/28/22	04/28/22	04/28/22
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Trichloroethene	UG/L	5	1.0 U	2.2		(13 J)	52 J
Trichlorofluoromethane	UG/L	5	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
Vinyl chloride	UG/L	2	1.0 U	1.0 U	7.1 J	$\sim$ 23 J	7.6 J
Xylene (total)	UG/L	5	2.0 U	2.0 U	4.0 UJ	10 UJ	10 UJ
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Antimony	UG/L	3	NA	NA	NA	NA	NA
Arsenic	UG/L	25	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Beryllium	UG/L	3	NA	NA	NA	NA	NA
Cadmium	UG/L	5	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Copper	UG/L	200	NA	NA	NA	NA	NA
Iron	UG/L	300	NA	NA	NA	NA	NA
Lead	UG/L	25	NA	NA	NA	NA	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Mercury	UG/L	0.7	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA

\*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda) Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit.

UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value.

D - Result reported from a secondary dilution analysis.

Location ID			PDI-07	PDI-08	PDI-09	PDI-10	PDI-11
Sample ID			PDI-7_GW	PDI-8_GW	PDI-9_GW	PDI-10_GW	PDI-11_GW
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval	ft)		-	-	-	-	-
Date Sampled	1		04/27/22	04/27/22	04/28/22	04/28/22	04/28/22
Parameter	Units	Criteria*					
Metals							
Selenium	UG/L	10	NA	NA	NA	NA	NA
Silver	UG/L	50	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Thallium	UG/L	0.5	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	MG/L	-	NA	NA	NA	NA	NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO3)	MG/L	-	NA	NA	NA	NA	NA
Chloride	MG/L	250	NA	NA	NA	NA	NA
Nitrate-Nitrogen	MG/L	10	NA	NA	NA	NA	NA
Sulfate (as SO4)	MG/L	2.50E+05	NA	NA	NA	NA	NA
Dissolved Gases							
Methane	UG/L	-	NA	NA	NA	NA	NA

\*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda) Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit.

UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value.

D - Result reported from a secondary dilution analysis.

Location ID			PDI-12
Sample ID			PDI-12_GW
Matrix			Groundwater
Depth Interval (f	t)		-
Date Sampled			04/28/22
Parameter	Units	Criteria*	
Volatile Organic Compounds			
1,1,1-Trichloroethane	UG/L	5	20 UJ
1,1,2,2-Tetrachloroethane	UG/L	5	20 UJ
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5	20 UJ
1,1,2-Trichloroethane	UG/L	1	20 UJ
1,1-Dichloroethane	UG/L	5	20 J
1,1-Dichloroethene	UG/L	5	20 UJ
1,2,4-Trichlorobenzene	UG/L	5	20 UJ
1,2-Dibromo-3-chloropropane	UG/L	0.04	20 UJ
1,2-Dibromoethane (Ethylene dibromide)	UG/L	0.006	20 UJ
1,2-Dichlorobenzene	UG/L	3	20 UJ
1,2-Dichloroethane	UG/L	0.6	20 UJ
1,2-Dichloroethene (cis)	UG/L	5	(1,400 J
1,2-Dichloroethene (trans)	UG/L	5	20 UJ
1,2-Dichloropropane	UG/L	1	20 UJ
1,3-Dichlorobenzene	UG/L	3	20 UJ
1,3-Dichloropropene (cis)	UG/L	0.4	20 UJ
1,3-Dichloropropene (trans)	UG/L	0.4	20 UJ
1,4-Dichlorobenzene	UG/L	3	20 UJ
2-Hexanone	UG/L	50	100 UJ
4-Methyl-2-pentanone	UG/L	-	100 UJ
Acetone	UG/L	50	160 J
Benzene	UG/L	1	20 UJ

\*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda) Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit.

UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value.

D - Result reported from a secondary dilution analysis.

Location ID			PDI-12
Sample ID			PDI-12_GW
Matrix			Groundwater
Depth Interval (f	t)		-
Date Sampled			04/28/22
Parameter	Units	Criteria*	
Volatile Organic Compounds			
Bromodichloromethane	UG/L	50	20 UJ
Bromoform	UG/L	50	20 UJ
Bromomethane	UG/L	5	20 UJ
Carbon disulfide	UG/L	60	20 UJ
Carbon tetrachloride	UG/L	5	20 UJ
Chlorobenzene	UG/L	5	20 UJ
Chloroethane	UG/L	5	
Chloroform	UG/L	7	20 UJ
Chloromethane	UG/L	5	20 UJ
Cyclohexane	UG/L	-	20 UJ
Dibromochloromethane	UG/L	50	20 UJ
Dichlorodifluoromethane	UG/L	5	20 UJ
Ethylbenzene	UG/L	5	20 UJ
Isopropylbenzene (Cumene)	UG/L	5	20 UJ
Methyl acetate	UG/L	-	50 UJ
Methyl ethyl ketone (2-Butanone)	UG/L	50	200 UJ
Methyl tert-butyl ether	UG/L	10	20 UJ
Methylcyclohexane	UG/L	-	20 UJ
Methylene chloride	UG/L	5	20 UJ
Styrene	UG/L	5	20 UJ
Tetrachloroethene	UG/L	5	20 UJ
Toluene	UG/L	5	20 UJ

\*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda) Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit.

UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value.

D - Result reported from a secondary dilution analysis.

**Detection Limits shown are PQL** 

Location ID			PDI-12
Sample ID			PDI-12_GW
Matrix			Groundwater
Depth Interval (f	<del>(</del> )		Groundwater
	u)		- 04/28/22
Date Sampled		1	04/20/22
Parameter	Units	Criteria*	
Volatile Organic Compounds			
Trichloroethene	UG/L	5	45 J
Trichlorofluoromethane	UG/L	5	20 UJ
Vinyl chloride	UG/L	2	34 J
Xylene (total)	UG/L	5	40 UJ
Metals			
Aluminum	UG/L	-	NA
Antimony	UG/L	3	NA
Arsenic	UG/L	25	NA
Barium	UG/L	1000	NA
Beryllium	UG/L	3	NA
Cadmium	UG/L	5	NA
Calcium	UG/L	-	NA
Chromium	UG/L	50	NA
Cobalt	UG/L	-	NA
Copper	UG/L	200	NA
Iron	UG/L	300	NA
Lead	UG/L	25	NA
Magnesium	UG/L	35000	NA
Manganese	UG/L	300	NA
Mercury	UG/L	0.7	NA
Nickel	UG/L	100	NA
Potassium	UG/L	-	NA

\*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda) Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit.

UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value.

D - Result reported from a secondary dilution analysis.

**Detection Limits shown are PQL** 

Location ID			PDI-12
Sample ID			PDI-12_GW
Matrix			Groundwater
Depth Interval (f	t)		-
Date Sampled			04/28/22
Parameter	Units	Criteria*	
Metals			
Selenium	UG/L	10	NA
Silver	UG/L	50	NA
Sodium	UG/L	20000	NA
Thallium	UG/L	0.5	NA
Vanadium	UG/L	-	NA
Zinc	UG/L	2000	NA
Dissolved Metals			
Iron	MG/L	-	NA
Miscellaneous Parameters			
Alkalinity, Total (as CaCO3)	MG/L	-	NA
Chloride	MG/L	250	NA
Nitrate-Nitrogen	MG/L	10	NA
Sulfate (as SO4)	MG/L	2.50E+05	NA
Dissolved Gases			
Methane	UG/L	-	NA

\*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda) Class GA.

Flags assigned during chemistry validation are shown.

D - Result reported from a secondary dilution analysis.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit.

UJ - Not detected. The reported quantitation limit is an estimated value.

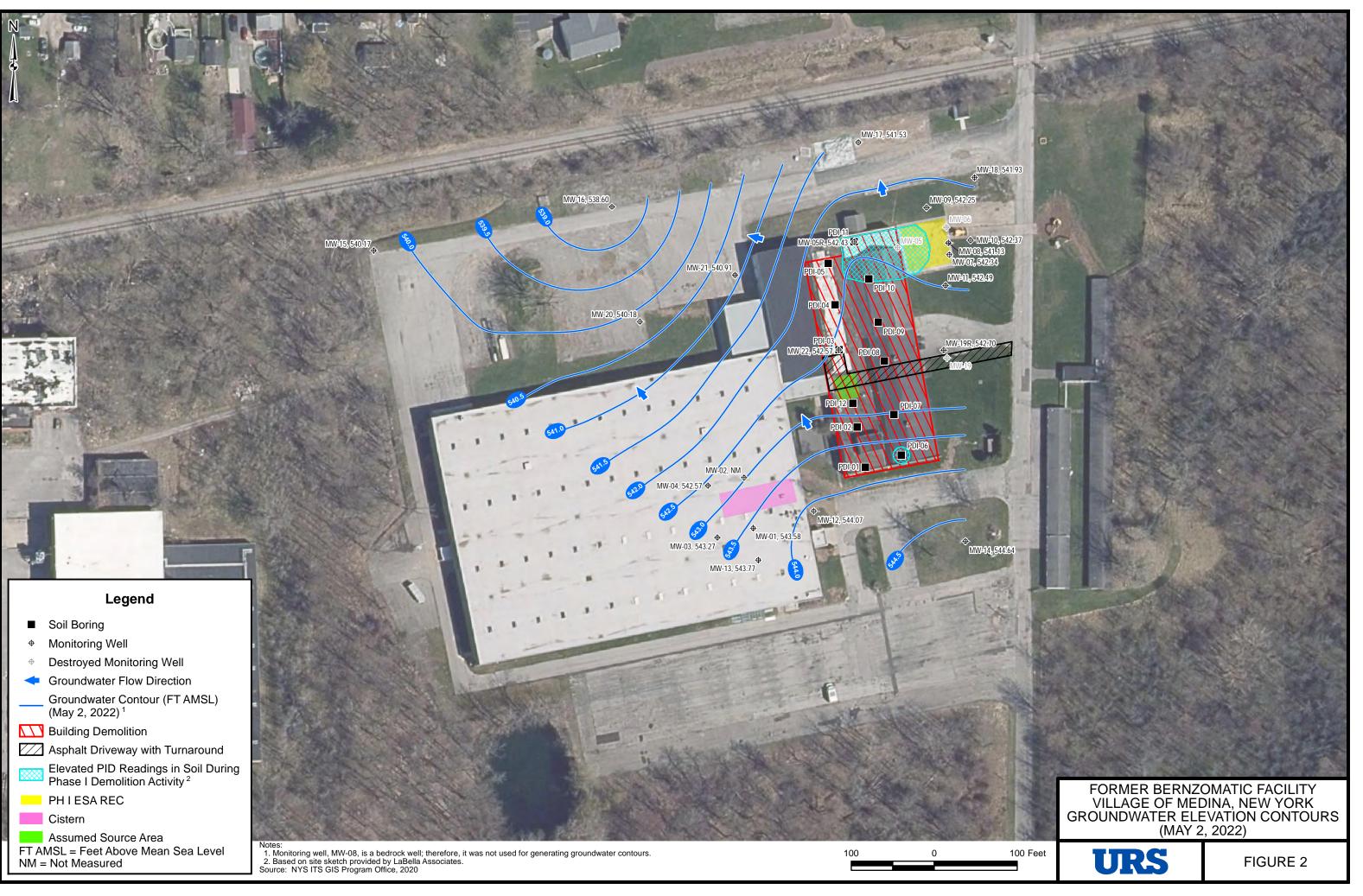
J - The reported concentration is an estimated value.

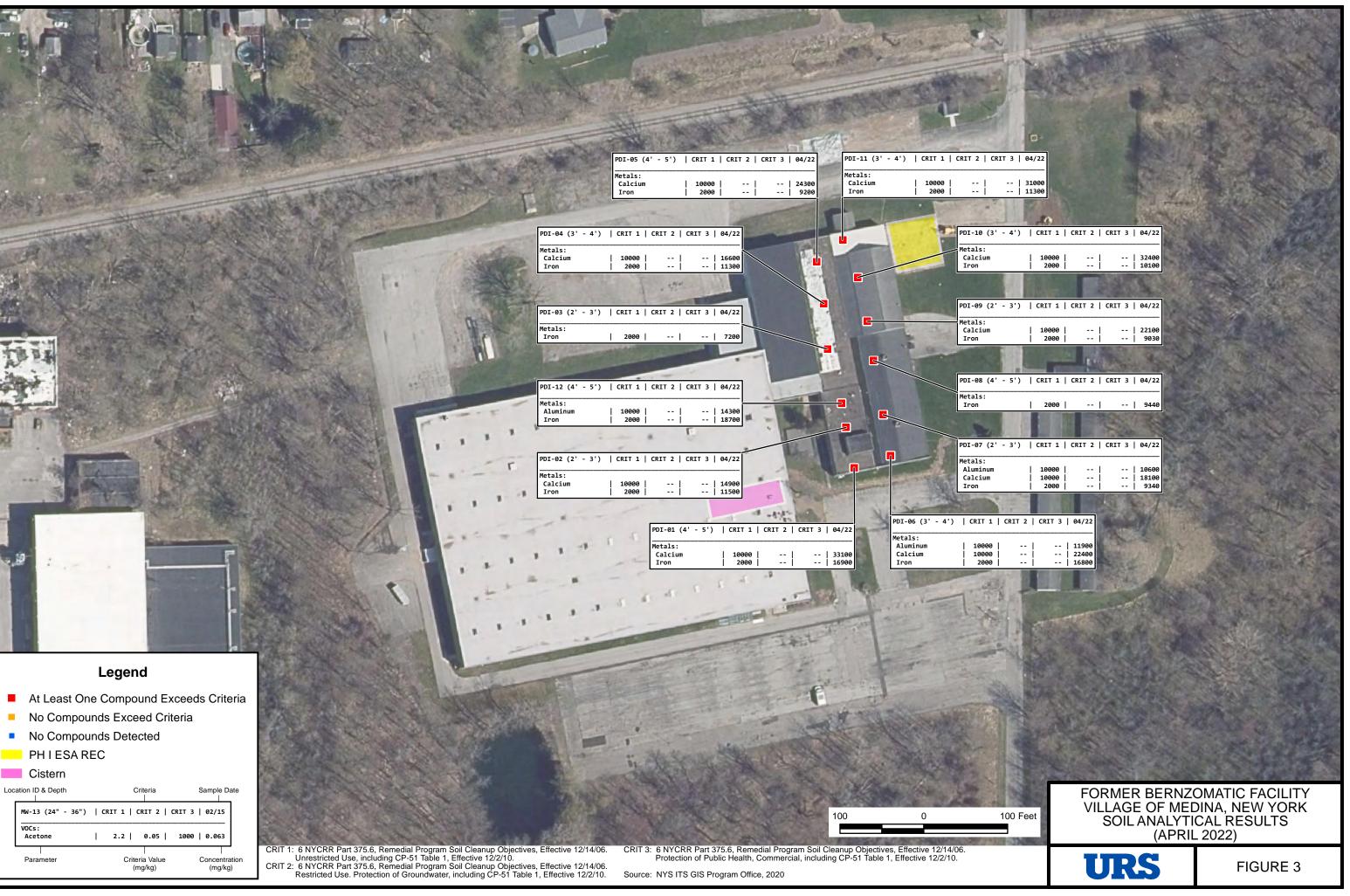
Figures

#### Legend

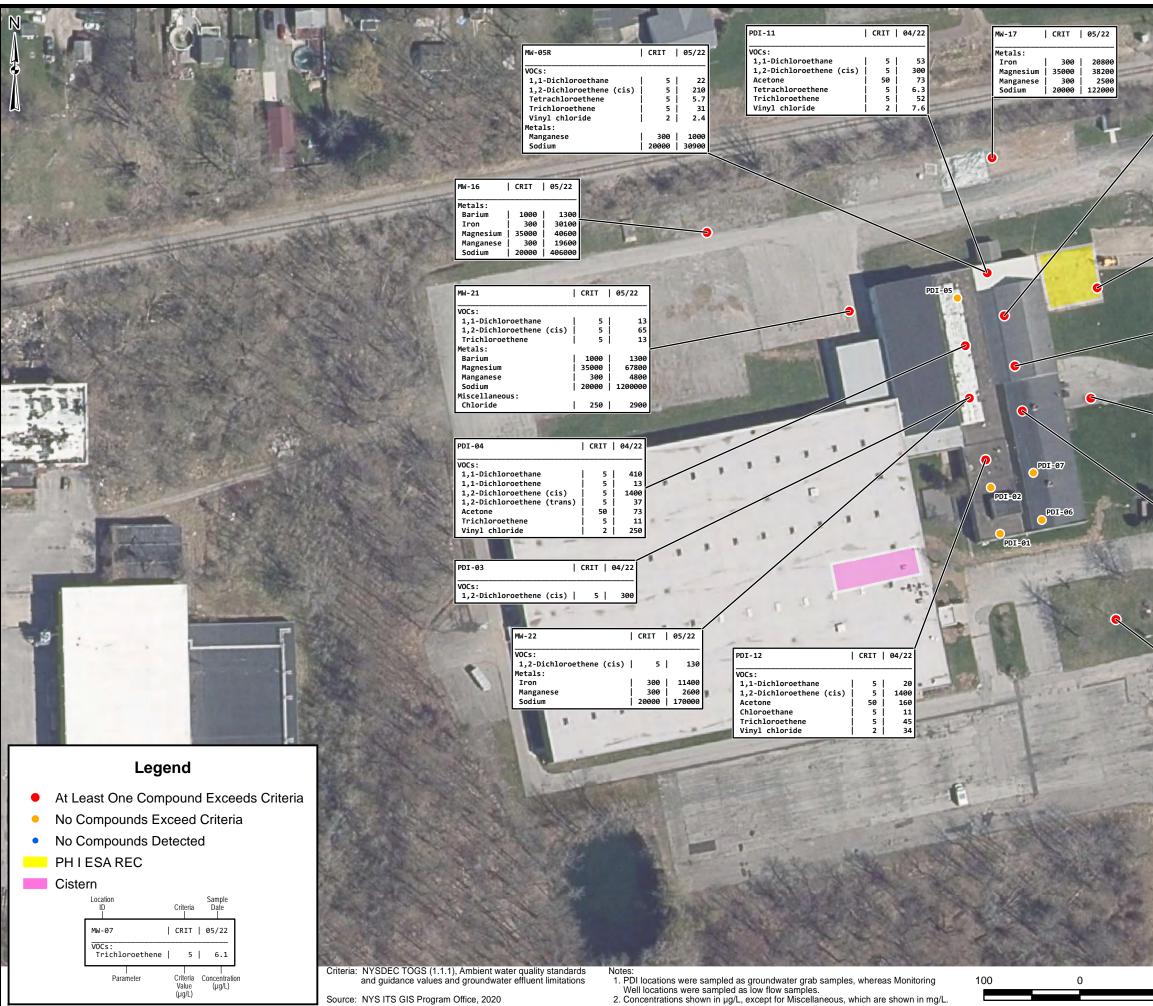
- Proposed Treatment Area Monitoring Well
- Proposed Soil Boring
- Monitoring Well To Be Sampled
- Monitoring Well Not To Be Sampled
- Building Demolition
  - Elevated PID Readings in Soil During Phase I Demolition Activity <sup>1</sup>
  - PH I ESA REC
  - Cistern
  - Assumed Source Area







oc	ation ID & Depth	Criteria	Sample Dat
	MW-13 (24" - 36")	CRIT 1   CRIT 2   CRIT 3	8   02/15
	VOCs: Acetone	2.2   0.05   1000	0.063
	Parameter	Criteria Value (mg/kg)	Concentrati (mg/kg)



PDI-10	I	CRIT	I	04/22
VOCs:				
1,1-Dichloroethane	Т	5	Т	15
1,2-Dichloroethene (cis)	İ	5	İ	140
Trichloroethene	Ì.	5	Ì.	13
Vinyl chloride	i	2	i	23

MW-07	I	CRIT	I	05/22
VOCs: Trichloroethene		5		6.1
Metals: Iron	Ì	300	Ì	820
Manganese	i	300	i	2100

And the second se		1.77		Company of the Real Property of the
PDI-09	I	CRIT	I	04/22
VOCs :				
1,1-Dichloroethane	T	5	T	8.3
1,2-Dichloroethene (cis)	I	5	I	87
Tetrachloroethene	Ι	5	Ι	9
Trichloroethene	Ť.	5	Ť.	11
Vinyl chloride	Ì	2	Ì	7.1

Provide States		100	6	- 200
MW-19R	Ι	CRIT	I	05/22
	_			
Metals:				
Iron	Т	300	Т	1500
Manganese	L	300	L	5500
Sodium	Ì	20000	Ì	157000
ALC: NOT OF THE OWNER	1	1000		Transfer and

	10	100	ALC: N		5.10.2
PDI-08		I	CRIT	Ι	04/22
VOCs: 1,2-Dichloroethene	ci	.s)	5	1	18

A REAL PROPERTY OF		A DESCRIPTION OF		
MW-14	I	CRIT	I	05/22
Metals:	_			
Iron	Т	300	Т	1700
Manganese	Ì.	300	1	670
Sodium	Ì	20000	Ì	83600





FIGURE 4

Attachment 1

Boring Logs

Select Remedial Investigation Boring Logs

			UR	S co	orpora	ation			BORING NO.: MW-05	BORI	NG LO	G
PROJE	CT/PROJE	CT LOO				nzomatic Dr.,	Modina		SHEET: 1 OF 1			
	F: Newell F						incuma		JOB NO. : 25369237			
	G CONTRA			Drilling					NORTHING: 1173158.80	9 EAS	STING: 12	203918.098
	NDWATER:		Hotimagi	<u>, prining</u>	CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION:		ft amsl	
DATE			EL TYPE	ТҮРЕ			CORE	TODE	DATE STARTED:	10/21/2		
DATE				DIA.	-	Split Spoon 2"			DATE FINISHED:	10/21/2		
									DRILLER:		angefrida	
				WT.		140 lbs.					-	
				FALL		30"			GEOLOGIST:		AcGovern	
	ļ			*	POCKET	PENETROMETE	R READIN	G	REVIEWED BY:	Kevin C	Connare	-
DEPTH		S	SAMPLE	REC%					MATERIAL			
FEET	STRATA	NO.	BLOW COUNT	RQD%	COLOR	CONSISTENCY ROCK			SCRIPTION	USCS	PID	REMARK
			COUNT			HARDNESS						
0												
0	$\boxtimes$	1	X,3,2,1	25	Brown	Loose to Very Loose	CONC	RETE		Conc Fill	0.0	Moist, No Odor
1	$\bigotimes$				2.000	20000	FILLO	oarse to	fine Gravel and Sand			
-	$\otimes$	2	1,2,2,4	15	-						0.0	-
-												
_		3	2,2,5,4	35	Red					SW	0.0	_
-5		0	2,2,0,4	00	Brown			n to fine \$ e gravel a	SAND, some coarse sand	011	0.0	
								e glavel a				Wet, No Od
		4	9,15,37,22	55		Very Dense			AND, some finegravel		0.0	
-							and silf	I	-			
-		5	15,22,17,21	0	-	Dense	0' 10'		(0.T.)		NA	-
-							8-10:1	No Recov	/ery			
10		6	50/2	0	_						NA	_
		6	50/3	0			Boring	Refusal a	at 10.25' bgs, Top of		NA	
							Rock					
-												
15 —												
-												
_												
20 —												
-												
-												
_												
_												
25 —												
							•					
-				· ·								
Colley	IMENTS: Bo	pring ac	tvanced with a	track-mou	nted CME	-55LC drill rig u	using a 4	1/4" HSA	and 2" split spoon sample overburden monitoring wel	r I		
	No Blow Co					203 analyses.	Complete	5u do 2 (	werburden monitoring wei			
		ana di										
									BO	RING NO.	:MW-05	

			U	RS	L Co	rpora	ation			IES BORING NO.: MW-		NG LO	G
PROJE	CT/PROJE	CTIO					nzomatic Dr.,						
	T: Newell			Newell	Philes	SA, 1 Ber	nzomatic Dr.,	wedina		SHEET: 1 OF 1			
										JOB NO. : 25369237			203976.768
	G CONTRA		Nothna	gle Dr	rilling		0.000	0005	TUDE	NORTHING: 1173151			103970.700
	NDWATER:	1				CAS.	SAMPLER	CORE	TUBE				
DATE	TIME	LEV		YPE	TYPE		Split Spoon			DATE STARTED:	10/22/2		
					DIA.	_	2"			DATE FINISHED:	10/22/2		
					WT.	_	140 lbs.			DRILLER:		angefrida	
					FALL		30"			GEOLOGIST:		lcGovern	
					*	POCKET	PENETROMETE	R READIN	G	REVIEWED BY:	Kevin C	onnare	
COTU		s	SAMPLE	F	REC%		SOIL		,	MATERIAL			
DEPTH FEET	STRATA	NO.	BLOW		RQD%	COLOR	CONSISTENCY ROCK			SCRIPTION	USCS	PID	REMARK
			COUNT				HARDNESS						
0	አ [አ ]	1	1,2,2,8		20	Brown	Loose	TOPSO	DIL		Topsoil	0.0	Moist, No Odor
-	<u>በ አ</u> በላ												Odor
-	$\dot{\gamma}$	2	5,5,3,8		70	Red		NA			SW	0.0	-
-	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$					Brown			e gravel a	SAND, some coarse san and silt	ia		
_	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	3	6,9,8,13	_	0	-	Medium		•			NA	_
-5		5	0,9,0,10	,	0		Dense	4'-6': N	o Recove	ery			
													Wet, No O
	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	4	11,12,13,	17	90							0.0	
1								Coarse	to fine S	AND and medium to find	e SW/GW		
-		5	6,50/3		45		Very Dense		EL, some		-	0.0	-
-													
0						-		Boring	Refusal a	at 9.25' bgs, Top of Rock	<		
_													
-													
5													
-													
-													
_													
0													
1													
-													
-													
-													
25 —													
_													
COM	MENTS: B	oring ac	Ivanced wi	th a tra	ck-mour	ted CME	-55LC drill rig u	using a 4	1/4" HSA	and 2" split spoon samples. Completed as 2" over		itoring w	
	No Blow Co				-07 (0-9)	j @ 0-2 i	a o -a nde ioi		s analyse	s. Completed as 2 OVe		noning we	÷II.
		ounio di											
										E	BORING NO.	:MW-07	

			U	RS ca	orpora	ation			TES BORING NO.: MW-0		IG LC	DG
										9		
				lewell Ph II E	SA, 1 Ber	nzomatic Dr.,	Medina		SHEET: 1 OF 1			
-	T: Newell								JOB NO. : 25369237			
			Nothna	gle Drilling		1		1	NORTHING: 1173205.9			203945.346
GROUI	NDWATER:	4' bgs			CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION			
DATE	TIME	LEV	EL T	PE TYPE	E	Split Spoon			DATE STARTED:	2/3/201		
				DIA.		2"			DATE FINISHED:	2/3/201		
				WT.	_	140 lbs.			DRILLER:	Jeff Sch	weitzer	
				FALL	-	30"			GEOLOGIST:		lcGoverr	า
	Į			*	POCKET	PENETROMETE	R READIN	IG	REVIEWED BY:	Tim Ifko	vich	
DEPTH		S	SAMPLE	REC%		SOIL			MATERIAL			
FEET	STRATA	NO.	BLOW	RQD%	COLOR	CONSISTENCY ROCK			SCRIPTION	USCS	PID	REMARK
			COUNT	ind b //		HARDNESS						
0	$\overline{\diamond}$	1	Macrocor	e 75	Brown Red	Loose	TOPS	DIL		Topsoil Fill	0.0	Moist, No Odor
-					Brown		\					Oddi
-								silt, medit n to fine (	um to coarse sand, and Gravel	SM	0.0	-
-	$\cdot$ $\cdot$ $\cdot$ $\cdot$ $\cdot$ $\cdot$ $\cdot$ $\cdot$ $\cdot$ $\cdot$						Silty fir		some to trace medium		0.0	_
-		2	7,10,14,1	3 70	_	Medium	to fine				0.0	Wet, No Oc
-5		-	.,,.			Dense					0.0	
						-	No	gravel a	t 4' bgs			
	· · · · · · · · · · · · · · · · · · ·	3	14,20,28,2	25 40		Dense	SILT a	nd fine S/	AND, some medium to	SM/ MH	0.0	Moist, No Odor
1							coarse					
-	·····	4	6,16,22,50	/4 79	_		Fine sa	andy SILT	, some medium to fine	МН	0.0	Wet, No Od
-							gravel	2			0.0	
10							Boring	Refusal o	on Top of Rock at 9.75'			
-							bgs.					
-												
_												
_												
5												
_												
20												
-												
-												
-												
4												
.5 —												
—												
			h	h a 4u1								
CON Colle	IMENTS: Be cted soil sa	oring ac mple M	wanced wit	n a track-mou	nted CME	OCs analyses	ng a 4 1/4 Complet	ны ar ed as 2"	nd 2" split spoon sampler. overburden monitoring w	ell.		
			(0 0)									
									B	ORING NO.	:10100-09	

			UR	S co	rpora	tion			TES BORING NO.: MW-1		NG LO	G
PROJE	CT/PROJE	CTLOC				nzomatic Dr.,	Madina		SHEET: 1 OF 1	4		
	: Newell F				DA, 1 Deri	izomatic Dr.,	meana		JOB NO. : 25369237			
				Drilling, Inc					NORTHING: 1172803		STING: 12	203992.257
	DWATER:		-	Drining, inc	CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION			
DATE	TIME	LEVE	1	Е ТҮРЕ		Macrocore			DATE STARTED:	2/27/17		
				DIA.		1.5"			DATE FINISHED:	3/2/17		
									DRILLER:		orantv & E	Bryan Swartz
				FALL					GEOLOGIST:			est Thalhamer
								G	REVIEWED BY:		Connare	
				<b>T</b>		SOIL		-				
DEPTH FEET	STRATA	NO.	MPLE BLOW COUNT	REC%	COLOR	CONSISTENCY ROCK HARDNESS			MATERIAL SCRIPTION	USCS	PID	REMARKS
<u> </u>	1			1	<u> </u>		1					
0								011			0.0	
-							TOP S	OIL			0.0	-
_							FILL: si gravel	ilt, some i	ine-med sand, little			Wet @ 2.5'
							FILL: c		tle silt, fine-med sand,		0.0	bgs
-5					Brown		FILL: c	inder bloo	ks & wood		0.0	-
-	· · · · · · · ·	1		75			Fine S/	AND, trac	e to some gravel			
_	· · · · · · · ·			10				,	g		0.0	-
_												-
	· · · · · · · ·										0.0	
-10 —	· · · · · · ·	2		100							0.0	
-10							Boring	Refusal a	it 10' bgs, Top of Rock			
							_					
_												
-												
-												
-15 —												
_												
_												
_												
-20 —												
_												
-												
-												
-25 —												
COM	MENTS: Bo	oring han	nd-cleared fr	om 0' to 5' b	gs and the	en advanced w	ith a truck	c-mounted	d CME-75 drill rig using a	4' long mac	rocore sar	mpler.
Colle	cted soil sar	mples M\	W14-SS-(0-	2") at 0 to 2"	bgs and I	VW14(0102) a	t 1' to 2' b	ogs. Com	pleted as 2" overburder	monitoring	well.	
									В	ORING NO.	:MW-14	

			UR	S ca	rnora	tion				BORI	NG LO	G			
		CT L OCA			rpora				BORING NO.: MW-16						
				ell Ph II E	SA, 1 Ber	nzomatic Dr.,	Medina		SHEET: 1 OF 1						
	: Newell F								JOB NO. : 25369237			00500 004			
			Nothnagle [	orilling, Inc		0.000	0005	TUDE	NORTHING: 1173206.9			203566.094			
	IDWATER:	1			CAS.	SAMPLER Macrocore	CORE	TUBE	GROUND ELEVATION:	2/28/17	) ft amsl				
DATE	TIME	LEVE	L TYPE						DATE STARTED: DATE FINISHED:	2/28/17					
				DIA.		1.5"						0			
				WT.					DRILLER:		-	Bryan Swartz			
				FALL					GEOLOGIST:	-	aity & Joh	n Boyd			
						PENETROMETE	R READIN	G	REVIEWED BY:	Kevin C	Connare				
DEPTH		SA	MPLE	REC%				ı	MATERIAL		BID				
FEET	STRATA	NO.	BLOW COUNT	RQD%		RUCK		DE	SCRIPTION	USCS	PID	REMARKS			
						HARDNESS									
0				1			1			-					
					Grey Brown		SAND,	little fine	gravel	Λ	0.0				
							Fine-co	oarse SAI	ND and fine-coarse						
							GRAVE	EL, few si	ubangular cobbles		0.0				
	$\bigcirc \vdots : :$										0.0				
_	Set     Red Brown     SAND and med-coarse GRAVEL     0.1       Sand     1     15     Brown       Fractured BEDROCK, fine-med sand, trace silt     0.0     Wet @ 4.8' bgs														
-5	SAND and med-coarse GRAVEL     Wet @ 4.8' bgs       0.0     Wet @ 4.8' bgs														
-	Fractured BEDROCK, fine-med sand,														
-	trace silt														
_							Doning	i oradar a							
_															
-10 —															
_															
-															
-15 —															
-															
_															
_															
_															
-20 —															
-20															
_															
_															
-															
-															
-25 —															
COM		oring han	d-cleared fro	m 0' to 5' b	as and the	en advanced w	ith a truck	(-mounter	d CME-75 drill rig using a 4	l' long mac	rocore sar	npler.			
Collec	cted soil sar	mples MV	V16-SS(0-2"	) at 0 to 2"	bgs and M	1W16-0405 at	4' to 5' bg	s. Comp	leted as 2"overburden mo	nitoring we	ell.				
L									BO	RING NO.	:MW-16				

			UF	<b>LS</b> c	ornor	ation			TES BORING NO. : MW-1		NG LO	G			
PROJE	CT/PROJE									/					
	T: Newell F			ell Philis	ESA, 1 Ber	rnzomatic Dr.,	Medina		SHEET: 1 OF 1						
									JOB NO.: 25369237 NORTHING: 1173284			203863.170			
	G CONTRA			e Drilling, In	IC. CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION		ft amsl	203863.170			
	1	1	1			Macrocore		IUBE	DATE STARTED:	2/28/17					
DATE	TIME	LEVE	EL TY				<u> </u>		DATE STARTED:	2/28/17					
	<u> </u>	+		DIA		1.5"			DATE FINISHED: DRILLER:			Contractor			
	<del> </del>	+		WT.			<u> </u>	<u> </u>				Bryan Swartz			
	<u> </u>	+		FAL					GEOLOGIST:		Laity & Joh	n Boyd			
	<b>ί</b> η	, <b></b>				PENETROMETE		.G	REVIEWED BY:	Kevin	Connare	<del></del>			
DEPTH		SA	AMPLE	REC%			,	ł	MATERIAL						
FEET	STRATA	NO.	BLOW COUNT	RQD%	COLOR	ROCK			SCRIPTION	USCS	PID	REMARKS			
<u> </u>						HARDNESS									
2															
0					Grey Brown		Med-co	oarse SAI	ND and fine angular	-	0.0	-			
					Red Brown		GRAVE		č	/	0.0	1			
-					BIUWII				little fine-coarse sub						
-									few cobbles		0.1	4			
											0.2				
-5	· · · · · ·											Wet @ 5.1'			
	Brown     Brown     SILT, trace fine-coarse sand, trace fine     0.1     bgs														
	gravel 0.0														
		1		62.5	Light	4				_	0.0	1			
-	 				Light Brown		SILT ar	nd fine S/	AND, trace fine gravel		0.0	4			
		+			Brown	<u> </u>	Fine S	AND, trac	ce fine gravel	7	-				
-10 —							\		-	_					
							Boring	Refusal a	at 9' bgs, Top of Rock						
-15 —															
-20 —															
-															
-25 —		· · ·				L				I	1	1			
	1														
	1														
	L														
COM	MENTS: Bo	oring han	id-cleared	irom 0' to 5'	bgs and th	en advanced w	vith a truck	k-mounter	d CME-75 drill rig using a	4' long mac	rocore sar	npler.			
	cted soil sar	nples Mv	N17-SS(0-	2") at 0 to 2	" bgs and i	√W17-05 at 5	bgs. Con	npleted as	s 2" overburden monitori	ng well.					
									В	ORING NO.	:MW-17				

			Ü	R	5 co	rpora	ntion			TEST BORING NO. : MW-19	BORI	NG LO	G		
PROJE	CT/PROJE	CT LOC					nzomatic Dr.,	Medina		SHEET: 1 OF 1					
	: Newell F									JOB NO. : 25369237					
BORIN	G CONTRA	CTOR:	Nothr	nagle Dr	illina. Inc.					NORTHING: 1173024.7	09 EAS	<b>TING:</b> 12	03969.902		
	DWATER:					CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION:		ft amsl			
DATE	TIME	LEVE	EL	TYPE	TYPE		Macrocore			DATE STARTED:	2/28/17				
					DIA.		1.5"			DATE FINISHED:	2/28/17				
					WT.					DRILLER:	Steve L	oranty & B	ryan Swartz		
					FALL					GEOLOGIST:		aity & Johi			
					*	POCKET	PENETROMETE	R READIN	G	REVIEWED BY:		Connare			
		SA			REC%		SOIL								
DEPTH FEET	STRATA	NO.	BLO	OW UNT	RQD%	COLOR	CONSISTENCY ROCK HARDNESS			IATERIAL SCRIPTION	USCS	PID	REMARKS		
0	· _ · _					Brown		TOPS	)II silt li	ttle fine-med sand		0.0			
-								<u> </u>			(	0.0			
-						Mottled		trace fi	ne-med a	ned sand, some gravel, ngular cobbles		0.0			
-						Tan		@ 1.0'	bgs, incre	easing sand content,	1				
_	5     Brown         6     Brown         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0														
-5	-5 - Brown Brown Fine to very fine SAND, some to trace silt 0.0														
	-3 Brown Brown 0.0														
	Fine to very fine SAND, some to trace silt @9.0' bgs trace angular fine gravel														
	· · ·	1			33										
								Boring	Refusal a	t 9.1' bgs, Top of Rock					
-10								Bonng	iterusar a	a 9.1 bys, top of Rock					
-															
-															
-															
_															
-15 —															
_															
-															
-20 —															
-															
-															
-															
-25															
COM	MENTS' B	orina han	nd-cles	ared from	n ()' to 5' by	ns and the	en advanced w	ith a truck	(-mounter	d CME-75 drill rig using a 4	long mac	rocore san	npler.		
	cted soil sa	mples M	W19-S	<u>SS(0-</u> 2")	at 0 to 2" I	bgs and M	/W19-0203 at	2' to 3' bg	s. Comp	leted as 2" overburden me	onitoring w	ell.			
										ВО	RING NO.	:MW-19			

			U	R	5 co	rnora	tion			TES BORING NO.: MW-2		NG LO	G		
PROJE	CT/PROJE						nzomatic Dr.,	Madina			1				
	: Newell F			•• Newe	II PN II ES	A, 1 Beri	izomatic Dr.,	wealna		SHEET: 1 OF 1 JOB NO. : 25369237					
										NORTHING: 1173124.	672 FAS	TING: 12	03714.671		
	G CONTRA			lagie Dri	ning, inc.	CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION			03714.071		
DATE	TIME	LEVE		TYPE	TYPE		Macrocore	00112		DATE STARTED:	3/1/17				
DATE					DIA.		1.5"			DATE FINISHED:	3/1/17				
					 WT.		1.5			DRILLER:		oranty & F	ryan Swartz		
					FALL					GEOLOGIST:			est Thalhamer		
					-		ENETROMETE		6	REVIEWED BY:		Connare			
	1	ļ					SOIL		<u> </u>		Kevint	Jonnare			
DEPTH	STRATA	S/	AMPLE		REC%				r	IATERIAL	USCS	PID	REMARKS		
FEET		NO.		JNT	RQD%	COLOR	ROCK HARDNESS		DE	SCRIPTION	0303	112	REWARKS		
							TANDINESS								
0	~~~~							1			- 1	1			
_						Drawn		CONCI	RETE		Λ	0.0			
						Brown		ASPHA	ALT.			0.0			
								Coarse	GRAVE		-/	0.0			
_	· · · · · · · · · · · · · · · · · · ·														
_								⊢ine-m   silt	ed SAND	, some fine gravel and			Wet @ 3.9' bgs		
-5	-5														
_															
-	Fine-med SAND, trace fine gravel Boring Refusal at 6.5' bgs, Top of Rock														
-								Boring	Refusal a	t 6.5' bgs, Top of Rock					
_															
-10 —															
_															
_															
-15 —															
-															
-															
-															
-															
-20 —															
_															
_															
-25 —															
										d CME-75 drill rig using a			npler.		
Collec	cted soil sar	nple MV	v21-02	2.8-03.8 a	at 2.8' to 3	.8' bgs. N	o surface sam	ple collec	ted. Co	mpleted as overburden r	monitoring v	vell.			
										B	ORING NO.	:MW-21			

Pre-Design Investigation Boring Logs

		RS			t Numbe Locatio		BORING ID:	<i>N-</i> 19R
					g Method		Date/Time Started: 4/29/22 0905	Sheet: 1 of
.ogged		E. Au					Date/Time Finished: 4/29/22 0940	
Drilled I	By:	R. Reag	an (Mat		omental	)	4/29/22 0940	
	Sample Number	Sample Type	Recovery (ft)	PID reading*	U.S.C.S	Lithologic Description	Lab Sample ID	Well Construction Details
1 		ear		0.0	Fill	0-2' 6" topsoil then dark brown f-c SAND, little gravel, apshalt chunks, wood, loose, moist		
 	0	0-5' Handclear	-	0.0	sw/Gw	2-4' Tan/Brown. mottled silty f. SAND w/ cobbles, little gravel, moist	-	
4 5	▼			0.0	SW	4-5' SAA, little subrounded m-c gravel, moist	-	Well MW-19R 2" PVC Well 10 Slot Screen: 2.5-9'
3  	1	5' macrocore	2.9	0.1	SW	5-5.5' SAA, wet 5.5-7.5' Brown/Red Brown F. SAND, little silt, little f. gravel, wet. (TILL)		00N Sand: 2-9' Bentonite: 1-2'
3		2 <sup>΄</sup>		0.1	SP	7.5-8.5' Red-brown f-m SAND, tr. silt, saturated		
)				0.1	ML	8.5-9' Red-brown f. sandy SILT, little angular f-c gravel, wet.	_	
0 1 2 3 4 5 6 7 8 9						Refusal @ 9'.		
20						END OF BORING @ 9'		
NOTE	* units f - fine; NA - n	relative to m - mediu ot applical Same as	m; c - coa ole			n gas in parts per million (ppm)		

Boring Location:         1 Bernzomatic Drive         CPDF           brilling Method:         Geoprobe 5' macrocores         Date/Time Started:         3/27/22 0845           Logged By:         E. Au         Date/Time Finished:         4/27/22 0845           Drilling Method:         Geoprobe 5' macrocores         Date/Time Finished:         4/27/22 0845           Drilled By:         R. Reagan (Matrix Environmental)         Date/Time Finished:         4/27/22 0830           u <t< th=""><th>1</th><th>י וחמ</th><th>BORING ID:</th><th>Newell Rubbermaid</th><th>Number:</th><th>Client: Project</th><th>_</th><th></th><th></th><th>_</th></t<>	1	י וחמ	BORING ID:	Newell Rubbermaid	Number:	Client: Project	_			_
Drilling Method:         Geoprobe 5 macrocores         Date/Time Started: 4271/22 0845         Date/Time Started: 4271/22 0845           Dordled By:         E. Au         Date/Time Started:         4271/22 0845           Drilling Method:         E. Au         Date/Time Started:         4271/22 0845           Drilling Method:         E. Au         Date/Time Started:         4271/2022 0930           Drilling Method:         Drilling Method:         Lithologic Description         Lab Sample ID         Well Con           Date/Time Started:         0.6         FILL         0-1' Brown Topsol, tr. rounded, fice gravel, moist         2         0         0         Well Con           Date/Time Started:         0.7         SW         5-6.0' Red-brown f. Sity SAND, ittle			F					RS		
Light By:         E. Au         DeleTime Finished:         427/2022 0930           brilde By:         R. Reagan (Matrix Environmenta)         Matrix Environmenta)         427/2022 0930           u	eet: 1 of	Sheet:								
Deck         Deck <th< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>By:</th><th>.ogged</th></th<>									By:	.ogged
$ \begin{array}{c c c c c c c c } \hline & & & & & & & & & & & & & & & & & & $			4/27/2022 0930		onmental)	ix Enviro	an (Matr	R. Reag	By:	Drilled
$1 \\ 1 \\ 2 \\ 2 \\ 3 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4$		Well Constru Details	Lab Sample ID	Lithologic Description	Ċ	PID reading*	Recovery (ft)	Sample Type	Sample Number	Depth (ft)
2         0         0         0         0         0.8         SW         2-3' Brown m. SAND, little sit, little f-c angular gravel & cobbles         0.1         SW         3-4' Br. SAA, Root/wood chip           4         0.1         SW         3-4' Br. SAA, Root/wood chip         PDI-1_0405 @0940           5         0.7         SW         4-5' Brown SAA, No Cobbles, rootlets         PDI-1_0405 @0940           5         0.7         SW         5-6.0' Red-brown f. Sitty SAND, little f-m gravel, m.dense, wet         PDI-1_0405 @0940           6         1         S         SM         5-6.0' Red-brown f. Sitty SAND, little f-m gravel, m.dense, wet         PDI-1_0405 @0940           7         1         9         0.5         SM         5-6.0' Red-brown f. Sitty SAND, little f-m gravel, m.dense, wet         PDI-1_0405 @0940           7         1         9         0.0         ML         9-10' F. Sandy SILT, f. rounded gravel, m. dense, wet         TILL           7         0.0         ML         10.3-12' F. Sandy SILT/Sitty F. SAND, F. angular gravel, SAA. m. dense, wet (TILL)         PDI-1_GW @ 1015           2         io         0         ML         10.3-12' F. Sandy SILT/Sitty F. SAND, F. angular gravel, SAA. m. dense, wet (TILL)         PDI-1_GW @ 1015           3         1         1         1         1 <td></td> <td></td> <td></td> <td>0-1' Brown Topsoil, tr. rounded, f-c gravel, moist</td> <td>FILL</td> <td>0.6</td> <td></td> <td></td> <td></td> <td>1</td>				0-1' Brown Topsoil, tr. rounded, f-c gravel, moist	FILL	0.6				1
A       0.1       SW       3.4' Br. SAA, Root/wood chip         A       0.7       SW       4-5' Brown SAA, No Cobbles, rootlets         A       0.7       SW       4-5' Brown SAA, No Cobbles, rootlets         A       0.7       SW       5-6.0' Red-brown f. Slity SAND, little f-m gravel, m.dense, wet         A       0.5       SW       5-6.0' Red-brown f. Slity SAND, little f-m gravel, m.dense, wet         B       1       0.5       SW       5-6.0' Red-brown f. Slity SAND, little f-m gravel, m.dense, wet         B       1       0.0       SM       -6-9' f. SAND tr.f. gravel, m. dense, wet       PDI-1_0405 @0940         P       0.0       ML       9-10' F. Sandy SILT, f. rounded gravel, m. dense, wet       Temp Science         1       2       0.0       ML       9-10' F. Sandy SILT/Slity F. SAND, F. angular gravel, SAA. m. dense, wet (TILL)       PDI-1_6W @ 1015         2       0.0       ML       10.3-12' F. Sandy SILT/Slity F. SAND, F. angular gravel, SAA. m. dense, wet (TILL)       PDI-1_6W @ 1015         3       -       -       -       -       -       -         4       -       -       -       -       -       -         5       -       -       -       -       -       -				1-2' Brown m. SAND, little f-c gravel, moist	SW	0.9		clear	-	2
A       0.1       SW       3.4' Br. SAA, Root/wood chip         A       0.7       SW       4-5' Brown SAA, No Cobbles, rootlets         A       0.7       SW       4-5' Brown SAA, No Cobbles, rootlets         A       0.7       SW       5-6.0' Red-brown f. Slity SAND, little f-m gravel, m.dense, wet         A       0.5       SW       5-6.0' Red-brown f. Slity SAND, little f-m gravel, m.dense, wet         B       1       0.5       SW       5-6.0' Red-brown f. Slity SAND, little f-m gravel, m.dense, wet         B       1       0.0       SM       -6-9' f. SAND tr.f. gravel, m. dense, wet       PDI-1_0405 @0940         P       0.0       ML       9-10' F. Sandy SILT, f. rounded gravel, m. dense, wet       Temp Science         1       2       0.0       ML       9-10' F. Sandy SILT/Slity F. SAND, F. angular gravel, SAA. m. dense, wet (TILL)       PDI-1_6W @ 1015         2       0.0       ML       10.3-12' F. Sandy SILT/Slity F. SAND, F. angular gravel, SAA. m. dense, wet (TILL)       PDI-1_6W @ 1015         3       -       -       -       -       -       -         4       -       -       -       -       -       -         5       -       -       -       -       -       -				own m. SAND, little silt, little f-c angular gravel & cobbles	SW 2	0.8	-	-5' Hand	0	3
0.7       SW       4-5 Brown SAA, No Cobbles, rootlets         0       0.5       SW       5-6.0' Red-brown f. Silty SAND, little f-m gravel, m.dense, wet         1       0       0.0       SM       5-6.0' Red-brown f. Silty SAND, little f-m gravel, m.dense, wet         0       0.0       ML       9-10' F. Sandy SILT, f. rounded gravel, m. dense, wet (TILL)       SP-22 GW         0       0.0       ML       9-10' F. Sandy SILT, f. rounded gravel, m. dense, wet (TILL)       Temp Sorie         1       2       00       ML       10-3-12' F. Sandy SILT/Silty F. SAND, F. angular gravel, SAA. m. dense, wet (TILL)       PDI-1_GW @ 1015         3       1.5'       0.0       ML       10.3-12' F. Sandy SILT/Silty F. SAND, F. angular gravel, SAA. m. dense, wet (TILL)       PDI-1_GW @ 1015         3               4               6			PDI-1 0405 @0940	3-4' Br. SAA, Root/wood chip	SW	0.1		0	-	1
3       1       90 0       3.7'       0.0       SM       -6-9' f. SAND tr.f. gravel, m. dense, wet         0       0       ML       9-10' F. Sandy SILT, f. rounded gravel, m. dense, wet       (TILL)         0       0.0       ML       9-10' F. Sandy SILT, f. rounded gravel, m. dense, wet       (TILL)         1       2       0.0       SW       10-10.3' c. Sand layer, loose, wet       (TILL)         2       0.0       ML       10.3-12' F. Sandy SILT/Silty F. SAND, F. angular gravel, SAA. m. dense, wet (TILL)       PDI-1_GW @ 1015         2       0.0       ML       10.3-12' F. Sandy SILT/Silty F. SAND, F. angular gravel, SAA. m. dense, wet (TILL)       PDI-1_GW @ 1015         3              4              5              6									<b>V</b>	5
a       io       io       ML       9-10' F. Sandy SILT, f. rounded gravel, m. dense, wet (TILL)         0       ML       9-10' F. Sandy SILT, f. rounded gravel, m. dense, wet (TILL)       SP-22 GW         1       2       io       NL       10-10.3' c. Sand layer, loose, wet         2       io       0.0       ML       10.3-12' F. Sandy SILT/Silty F. SAND, F. angular gravel, SAA. m. dense, wet (TILL)         2       io       NL       10.3-12' F. Sandy SILT/Silty F. SAND, F. angular gravel, SAA. m. dense, wet (TILL)         3       Io       Io       Io       Io       PDI-1_GW @ 1015         5       Io       Io       Io       Io       Io       Io         6       Io       Io       Io       Io       Io       Io				Red-brown f. Silty SAND, little f-m gravel, m.dense, wet	SW	0.5			-	3
0        0.0       ML       9-10' F. Sandy SILT, f. rounded gravel, m. dense, wet (TILL)         1       2        0.0       SW       10-10.3' c. Sand layer, loose, wet         1       2        0.0       ML       10.3-12' F. Sandy SILT/Silty F. SAND, F. angular gravel, SAA. m. dense, wet (TILL)       PDI-1_GW @ 1015         2           Refusal @ 12'.       PDI-1_GW @ 1015         3                6				~6-9' f. SAND tr.f. gravel, m. dense, wet	SM	0.0	3.7'		- - - -	
Image: Constraint of the second se	Grab	SP-22 GW Gra		F. Sandy SILT, f. rounded gravel, m. dense, wet (TILL)	ML	0.0			-	_
2     in     Image: Constraint of the second	en 8-12'	Temp Screen 8		10-10.3' c. Sand layer, loose, wet	SW	0.0		core		°
3      Refusal @ 12'.     PDI-1_GW @ 1015       4           5          6					ML <sup>10</sup>	0.0	1.5'		2	
			PDI-1_GW @ 1015	Refusal @ 12'.				2,	_	
									-	4
										5
									-	6
									-	7
									-	8
									-	
10 END OF BORING @ 12'		L		END OF BORING @ 12'						
NOTES: * units relative to isobutylene/methane span gas in parts per million (ppm) f - fine; m - medium; c - coarse; tr trace NA - not applicable				arts per million (ppm)			m; c - coar	m - mediu	* units f - fine;	NOTI
SAA - Same as above										

					t Numb		BORING ID:	PDI-2
		RS			Locatio Metho er:		Date/Time Started: 4/27/22 1130 Date/Time Finished:	Sheet: 1 of
ogged Drilled I		E. Au R. Reag	an (Ma	trix Envir	omenta	0	4/27/2022 1230	
Uepth (It)	Sample Number	Sample Type	Recovery (ft)	PID reading*	U.S.C.S	Lithologic Description	Lab Sample ID	Well Constructic Details
1				0.1	FILL	0-1' Topsoil, little f-c gravel, moist		
2		clear		0.1	FILL	1-2' SAA, Cobbles, f-c gravel, moist		
3	0	0-5' Handclear	-	0.1	FILL	2-3' Brown f. silty SAND, f-c gravel, cobbles, moist	PDI-2_0203 @1105	
4 5	- ▼-	0		0.1	ML	3-5' Red-Brown, f. sandy SILT, moist to wet @ 4'		
				0.0	SW	5-5.5' Red-brown f. SAND, little subrounded f-m gravel, wet	-	
; 		0		0.0	SP	5.5-6.5' f. SAND, clean. (m-c sand layer @6.5-6.8'), wet. Grades to	-	
· 	- 1	5' macrocore	3.9'	0.0				
	-			0.0	ML	6.8-11' F. sandy SILT, m. dense, wet		
0	2	5' macroc ore		0.0	-		PDI-2_GW @ 1220	SP-22 GW Grab Temp Screen 7-17
2	_					Refusal 11'. Rock in shoe.		
3	-							
4								
5								
6								
7								
8	-							
9								
	e.	Doolerre			1	END OF BORING @ 11'		
NOTE	* units f - fine: NA - n	Backgrou relative to m - mediu ot applical Same as	isobuty m; c - coa ble	lene/meth		n gas in parts per million (ppm)		
	C, U ( -	Checke				Date:		

<i></i> ,	E. Au R. Reaga	an (Mat	Boring Drilling Weath		n: 1 Bernzomatic Drive	PDI- Date/Time Started: 4/27/22 1345	3 / MW-22 Sheet: 1 of 7
ogged By:	E. Au R. Reaga	an (Mat	Drilling Weath	n Methoo er:	d: Geoprobe 5' macrocores	Date/Time Started:	
Drilled By: I	R. Reaga		Weath	er:			
Drilled By: I	R. Reaga		rix Envir	omenta	· · · · · · · · · · · · · · · · · · ·		
umber			rix Envir	omenta		Date/Time Finished:	
Ueptn (rt) Sample Number	ample Type	/ (ft)			)	4/27/2022 1420	
	05	Recovery (ft)	PID reading*	U.S.C.S	Lithologic Description	Lab Sample ID	Well Construction Details
1			0.0 0.0	FILL	0-1' Fill 6" Topsoil then Brown silty SAND, loose		
2	clear		0.0		1-2' SAA moist, loose		
0 3	0-5' Handclear	-	0.0	SW	2-3' Red-Brown f. SAND, little f-m gravel moist	PDI-3_0203 @1345	
4	-0		0.0	SW	3-4' Red-Brown f. SAND, little f-m gravel, moist to wet, water ~4'		Well MW-22 2" PVC Well
5			0.0	SW	4-5' SAA, soft		10 Slot Screen: 2.7-9.7' 00N Sand: 2-9.7'
6	Φ		0.0	SW	5-7' Br. silty f. SAND, little rounded f-c gravel, m. dense, wet		Bentonite: 1-2'
7 <u> </u>	macrocore	NA	0.0	0.0	cobble to 7.5'		
9	5, L			SP	7.5-9.2' clean m. SAND, m. dense, saturated		
0			0.0	SW	9.2-10' Red-Brown f-c SAND, little silt, poorly sorted, wet/saturated. Rock in shoe.	PDI-3-GW @1430	SP-22 GW Grab Temp Screen 6-10
1					Refusal @ 10'.		
2							
3							
4							
5							
6							
7							
8							
9							
20					END OF BORING @ 10'		
f - fine; r NA - not	n - medium t applicabl	n; c - coa le			n gas in parts per million (ppm)		
	ame as a Checked				Date:		

			_	Client: Projec	t Numbe	Newell Rubbermaid er: 60636810	BORING ID:	ע וחכ	
		RS			Locatio		<b>r</b>	PDI-4	
				D'!!'		de Casarada Slaverana	Date/Time Started:	Sheet: 1 of	
				Drilling Weath	n Metho er:	d: Geoprobe 5' macrocores 40°F Cloudy	4/28/22 0845		
ogged	By:	E. Au		Would	01.	40 T Cloudy	Date/Time Finished:		
rilled E		R. Reag	an (Mat	rix Envir	omenta	0	4/28/2022 0900	I	
	Sample Number	Sample Type	Recovery (ft)	PID reading*	U.S.C.S	Lithologic Description	Lab Sample ID	Well Constructio Details	
				0.0	FILL	0-1' 6" Topsoil; then Brown silty SAND, loose, moist			
		ear		0.0		1-2' SAA			
	0	0-5' Handclear	-	0.0		2-3' Red Brown f. SAND, little f-m gravel, moist	PDI-4_0304 @ 0910		
		0-£		0.0	SW	3-4' SAA			
5	▼			0.0		4-5' Rock/Cobble; no recovery			
s				0.6	SW	4-6.5' Red Brown silty f. SAND, little f-c angular gravel, m. dense, wet			
	1	macrocore	3.6	0.7			-		
		5' me		0.2	0.2	SP	6.5-9' Grey/Red-Brown f-m SAND, clean, no odors, not stained grey		
		ė.		0.0	GF	9-9.2' SAA, wet	-	SP-22 GW Grab	
0	2	5' macro- core	1.0	0.1		9.2-10' SAA, coarsens w/ little silt, little f. gravel, saturated	PDI-4-GW @ 0926	Temp Screen 6-1	
						Refual @ 10'.			
2									
3 									
4									
5									
6									
7									
3									
9									
0									
NOTE		relative to		ene/meth	ane sna	END OF BORING @ 10'			
	f - fine; NA - n	m - mediu ot applical Same as	m; c - coa ole			3 64-46 For			
	SAA -	Checked				Date:			

		RS			t Numbe Locatio		BORING ID:	PDI-5
								Sheet: 1 of
					g Method		Date/Time Started: 4/28/22 1145	
ogged	BV	E. Au		Weath	er:	40°F Cloudy	Date/Time Finished:	
Drilled I			gan (Mat	trix Envir	omental	)	4/28/2022 1215	i
Depth (ft)	Sample Number	Sample Type	Recovery (ft)	PID reading*	U.S.C.S	Lithologic Description	Lab Sample ID	Well Constructior Details
_				0.0		0-6" Topsoil		
1	-			0.0				
' 2	-	clear		0.0	FILL	0.5-3' Brown to Brown-grey m. SAND & angular GRAVEL (Base Gravel), loose, dry to moist		
3	0	0-5' Handclear		0.0			PDI-5-0405 @ 1151 +MS/MSD	
4	-	-0		0.0	SM	3-5' Red-brown f. silty SAND, little f-c subrounded gravel, loose, moist		
5	-			0.0	-			
6	-			0.0	SM	5-6' SAA wet, saturated, m dense.	_	
7	-	ocore		0.0	SP	6-7' f-m SAND, clean, little fines, wet		
	1	macrocore	3.0	0.0	ML	7-8' Red-Brown SILT, clean moist to wet		
		5			CL	8-8.5' Red-Brown CLAY lense, little silt, dense		
9				0.0	Rock	8.5-9' Red SANDSTONE chunk/cobble, hard, dry	_	
0	-			0.0	SP	9-10' Brown-Grey m. SAND clean, loose, wet	_	
1	-					Refusal @ 10'.	PDI-5-GW @1230	SP-22 GW Grab Temp Screen 6-10
2	-							
3	-							
4	-							
5							-	
6	-							
7	-							
8	-							
9	-							
20	1					END OF BORING @ 10'		
NOTE	* units f - fine NA - n	relative to ; m - mediu ot applica Same as	ım; c - coa ble			n gas in parts per million (ppm)		
		Checke	d by:_			Date:		

		RS			t Number Location		BORING ID:	PDI-6
					n Method:		Date/Time Started: 4/27/22 1045	Sheet: 1 of 1
Loggea	By:	E. Au		, roath	01.	lo i oloday	Date/Time Finished:	
Drilled	By:	R. Rea	an (Ma	trix Envir	omental)	0	4/27/2022 1120	
Depth (ft)	Sample Number	Sample Type	Recovery (ft)	PID reading*	U.S.C.S	Lithologic Description	Lab Sample ID	Well Constructior Details
	-			0.8		0-1' Brown Topsoil, SILT & SAND, loose, moist		
2	-	dear		1.2	FILL	1-2' SAA, Trace f-m subrounded gravel		
3	0	0-5' Handclear		0.5		2-3' SAA little gravel, moist	PDI-6_0304 @1042	
4	<b>V</b>	-0		1.2	SW	3-4' Red Brown silty F. SAND, little f-c gravel, cobbles, moist	_	
5	-			0.3	ML	4-5' F. sandy SILT, silty sand, wet		
6	-			0.1	ML	5-6' Dark grey stained, red-brown f. sandy SILT, wet	_	
7		ore				6-6.2' cobble	_	
8 9	- - 1 -	5' macrocore	3.3	0.0	SW	6.2-9.5' f. SAND, little silt & f. angular gravel (TILL), wet		
10	-	0		0.0	SP	9.5-10' c. SAND, clean, well sorted, wet.	_	SP-22 GW Grab
11	2	5' macrocore	NA	0.0	SP	10-11' SAA c. SAND, wet, clean, well sorted 11-11.3' Brown f. SAND, clean, well sorted		Temp Screen 7-11'
12	_					Refusal @ 11.3'.	PDI-6-GW @ 1108	
13	-							
14	-							
15							_	
16	-							
17	-							
18	-							
19	-							
20						END OF BORING @ 11.3'		
NOTE	* units f - fine;	relative to m - mediu ot applica	ım; c - coa			gas in parts per million (ppm)		
		Same as Checke	above		г	Date:		

		RS			t Numbe Locatio		BORING ID:	PDI-7	
					g Method		Sheet: 1 of Date/Time Started: 4/27/22 1140		
ogged		E. Au	() ( )	·		A	Date/Time Finished: 4/27/22 1315		
rilled E		R. Reag	jan (Mai		omental	)	4/21/22 1313		
	Sample Number	Sample Type	Recovery (ft)	PID reading*	U.S.C.S	Lithologic Description	Lab Sample ID	Well Construction Details	
				0.0	FILL	0-1' Topsoil, f. silty SAND, loose, moist			
		lear		0.0		1-2' SAA, tr. cobbles, loose, moist	PDI-7-0203 @ 1209		
	0	0-5' Handclear		0.0		2-3' Tan/Brown mottled f. silty SAND, little f-c gravel, tr. cobbles, moist			
	▼			0.0	SW	3-4' Tan brown COBBLES & f. SAND, moist to wet			
				0.0		4-5' Light red-brown f. SAND, tr. cobbles & gravel, wet			
				0.0	ML/SW SP	5-5.5' Red-Brown f. silty SAND; Dark Grey mottled staining to 6.5', wet; Grades to clean f-m SAND to 6.5'			
		ore		0.0	ML	6.5-7.5' f. sandy SILT, m. dense, wet			
	1	5' macrocore	4.0	0.0	SP	7.5-10' f. SAND, little m. sand in last few inches			
				0.0		Refusal @ 10'.	PDI-7-GW @1315	SP-22 GW Grat Temp Screen 6-1	
							-		
IOTE				1	l	END OF BORING @ 10'			
	* units f - fine; NA - no	; m - mediu ot applica	m; c - coa ble			n gas in parts per million (ppm)			
	SAA -	Same as Checke				Date:			

					t Number Location		BORING ID:	DI-8	
		RS			g Method:		Date/Time Started: 4/27/22 1400		
ogged		E. Au					Date/Time Finished:		
rilled E	3 <i>y:</i>	R. Reag	an (Ma	trix Envir	omental)		4/27/22 1500		
	Sample Number	Sample Type	Recovery (ft)	PID reading*	U.S.C.S	Lithologic Description	Lab Sample ID	Well Constructio Details	
				0.0 0.0		0-1' 6" Topsoil, f. silty SAND, little f-c gravel.			
		dclear		0.0	FILL	1-2' COBBLES w/ SAA, moist, loose			
	0	0-5' Handclear		0.0		2-3' SAA, moist	PDI-8-0405 @ 1409		
	▼			0.0	SW	3-4' Red-brown SAND, f-c gravel, tr. cobbles, moist			
				0.0		4-5' SAA, moist to wet			
i		Ð		0.0	SP	5-6' Red-brown silty f. SAND, little f-c gravel, moist to wet. 6-6.2' Cobble	_		
 	1	5' macrocore	4.0	0.0	sw	6.2-10' Red-brown f. SAND, trlittle f. subrounded gravel, wet/saturated, increasing f-c gravel last foot.			
						Refusal @ 10'.	PDI-8-GW @1510	SP-22 GW Grab Temp Screen 6-1	
·									
_									
·									
)						END OF BORING @ 10'			
	* units f - fine;	relative to ; m - mediu ot applica	m; c - coa			gas in parts per million (ppm)			
		Same as Checke	above			Date:			

		RS			t Numbe Location		BORING ID:	DI-9	
					g Method		Date/Time Started: 4/28/22 0900	0900	
ogged		E. Au					Date/Time Finished:		
rilled E	3 <i>y:</i>	R. Reag	an (Mat	rix Envir	omental)		4/28/2022 1030		
	Sample Number	Sample Type	Recovery (ft)	PID reading*	U.S.C.S	Lithologic Description	Lab Sample ID	Well Constructio Details	
				0.0 0.0		0-1' 6" Topsoil; then f. silty SAND, little f-c gravel.			
		ndclear		0.0	FILL	1-2' COBBLES w/ SAA, moist, loose	PDI-9-0203 @ 1009		
,	0 ▼	0-5' Handclear	-	0.4		2-3' SAA, moist			
·				0.1		2.0 Cl Ded Draws site 6. CAND, little a send and			
				0.1	SW	3-6.5' Red-Brown silty f. SAND, little c. sand and f-m gravel, m. dense, wet			
	1	macrocore	3.3	0.0					
		ع مآ			SW	6.5-8' Red-Brown c. SAND, little f-m gravel, t. silt, wet, loose			
	2	macrocore	1.7	0.0	SW	8-9.3' SAA, but less gravel, (m-c SAND, little f-c gravel, wet)			
) 		5' ma		0.0	SW	9.3-10' Red-Brown c. SAND, little f-m gravel, t. silt, wet, loose	PDI-9-GW @1030	SP-22 GW Grab Temp Screen 6-10	
I						Refusal @ 10'.			
2									
3									
۰ 									
5 <u> </u>							-		
6 									
ə									
0						END OF BORING @ 10'			
	* units f - fine;	m - mediu	m; c - coa			gas in parts per million (ppm)			
		ot applical Same as							

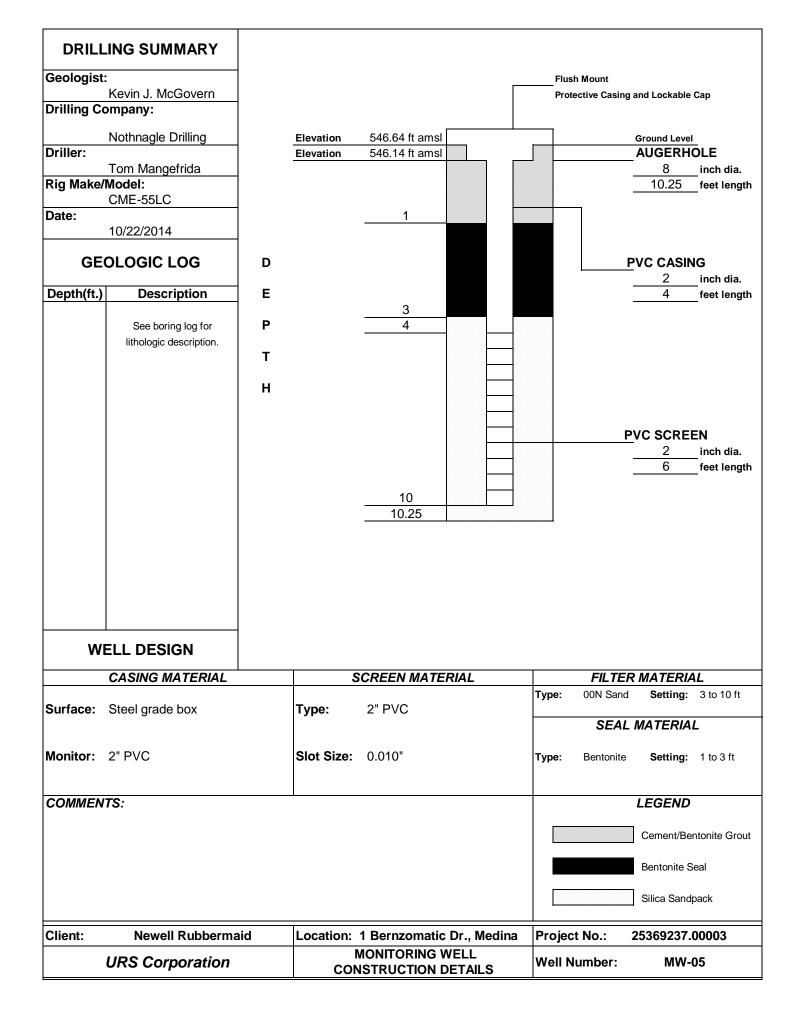
					t Numbe		BORING ID:	DI-10	
		RS			Location Method		Date/Time Started: 4/28/22 1030	Sheet: 1 of 7	
Logged		E. Au					Date/Time Finished:		
Drilled E	3 <i>y:</i>	R. Reag	an (Mat	trix Envir	omental		4/28/22 1130		
Depth (ft)	Sample Number	Sample Type	Recovery (ft)	PID reading*	U.S.C.S	Lithologic Description	Lab Sample ID	Well Constructior Details	
1		lear		0.0 0.0 0.0	Fill	0-2' 6" Topsoil, Brown f. silty SAND, little f-c gravel, loose, moist			
3	0	0-5' Handclear	0-5' Hando		0.0		2-6' Red-brown f. SAND, little silt, little f-c gravel, loose, moist	PDI-10-0304 @ 1051 Dup_042822 @ 1025	
4	▼			0.4	SM	moist to wet.			
6						wet/saturated @ 5', m. dense	_		
7 8 9	1	5' macrocore	4.0	0.0	GW/SW	6-10' f-c SAND, some f-c gravel, t. silt grading to little silt bottom foot, loose, saturated			
I0 I1 I2						Refusal @ 10'.	PDI-10-GW @ 1130	SP-22 GW Grab Temp Screen 6-10	
3									
5							_		
6 7									
8									
20						END OF BORING @ 10'			
	* units f - fine NA - n	relative to ; m - mediu ot applica Same as	m; c - coa ble			n gas in parts per million (ppm)			
	SAA -	Checke				Date:			

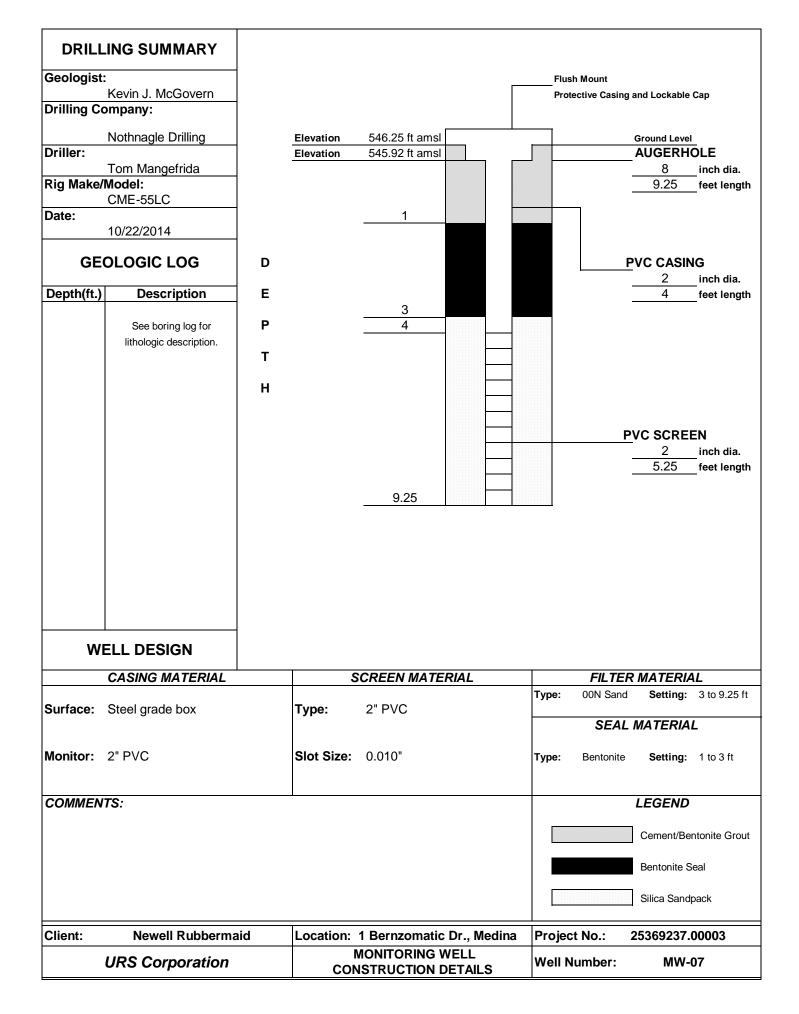
				Client:		Newell Rubbermaid	BORING ID:	
		RS			t Numbe Locatio		PDI-11 /	′ MW-05R
					g Metho		Date/Time Started: 4/28/22 1250	Sheet: 1 of
ogged	By:	E. Au		Would		40 F Garry	Date/Time Finished:	
rilled E		R. Rea	gan (Ma	trix Envir	omenta	0	4/28/22 1335	
	Sample Number	Sample Type	Recovery (ft)	PID reading*	U.S.C.S	Lithologic Description	Lab Sample ID	Well Construction Details
						0-6' Topsoil		
				0.0	Fill	6"-2' Brown f. silty SAND, little f-c gravel, moist		
		л						
		dclea		0.0			PDI-11-0304 @ 1311	
	0	0-5' Handclear		0.0			1 DI-11-0304 @ 1311	
		0-5						
				0.0	SW	2-6' Red-brown f. SAND, little silt & gravel, moist; cobbles starting at 3'; wet/saturated 5-6'		Well MW-05R
5	▼			0.0	_			2" PVC Well 10 Slot Screen: 3-10'
				0.0				00N Sand: 2-10' Bentonite: 1-2'
							-	Dentorine. T 2
		core		0.0		6-8.5' Red-brown f. SAND/SILT, clean, no gravel, last 3" coarsens		
	1	5' macrocore	3.6		SP/ML	to f-m sand.		
		(J		0.0	SW	8.5-10' Red-brown f. silty SAND & f-c subangular GRAVEL		
)						Refusal @ 10'.	PDI-11-GW @ 1340	SP-22 GW Grab
1						No odors or staining.		Temp Screen 6-10
2						No ouors of staining.		
3								
1								
5							-	
6								
7								
3								
9								
0						END OF BORING @ 10'		
NOTE								
	f - fine	m - mediu	ım; c - coa			n gas in parts per million (ppm)		
		ot applica Same as						
		Checke	d bv:			Date:		

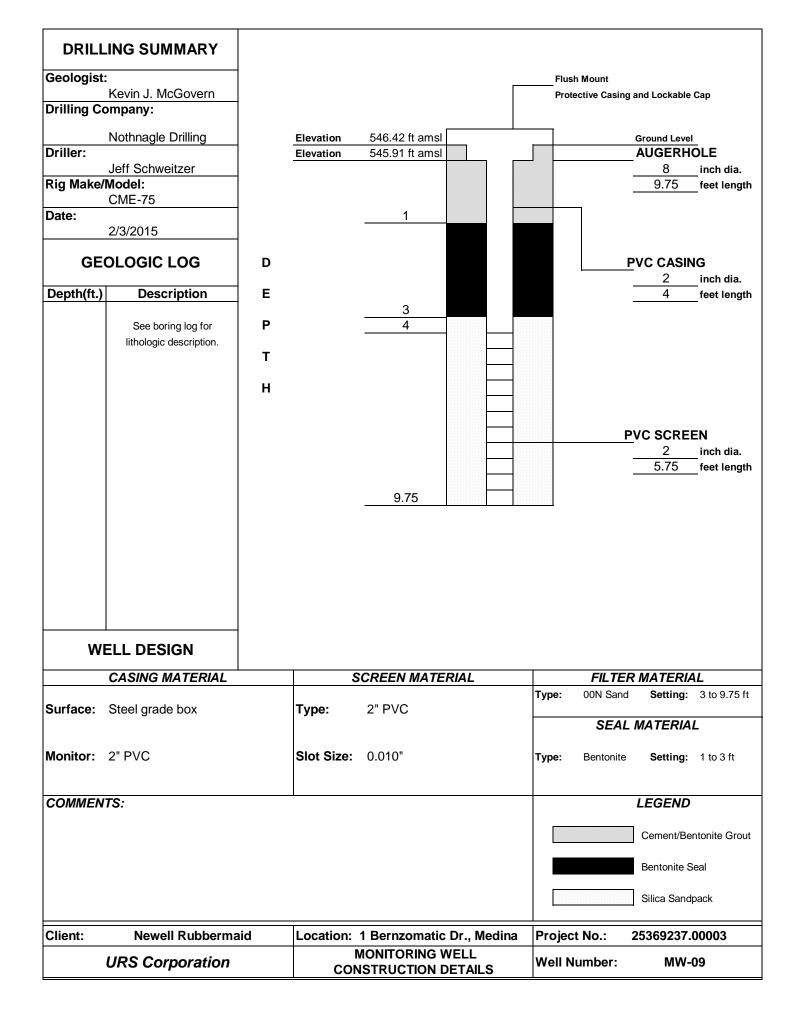
				Client:		Newell Rubbermaid er: 60636810	BORING ID:	
		RS			t Numb Locatio		P	DI-12
					n Metho		Date/Time Started: 4/28/22 1400	Sheet: 1 of
Logged		E. Au					Date/Time Finished:	
Drilled E	By:	R. Rea	gan (Mat	trix Envir	omenta	I)	4/28/2022 1420	
Depth (ft)	Sample Number	Sample Type	Recovery (ft)	PID reading*	U.S.C.S	Lithologic Description	Lab Sample ID	Well Constructior Details
1				0.0 0.0		0-1' 6" topsoil, Grey/brown f. silty SAND & GRAVEL		
2	-	lclear		0.0	Fill	1-2' SAA cobbles, loose, moist		
3	0	0-5' Handclear		0.0		2-3' SAA tr. brick fragments, loose, moist	PDI-12-0405 @ 1421	
4	-	0		0.0		3-4' SAA cobbles, loose, moist, 4-5' Tan mottled w/ Grey-brown SILT, little f-m sand, little gravel, tr.	_	
5	▼			0.0	ML	clay; cobbles @ depth. Wet at 5'.	-	
6	-	Ð						
8	1	5' macrocore	3.7	0.1	ML	5-10' Red-brown f. sandy SILT, little f-c sand and f-c gravel (TILL), wet but not saturated, dense 2" lense of m. sand @ bottom.		
9	-							
IU  I1	-					Refusal @ 10'.	PDI-12-GW @1455	SP-22 GW Grab Temp Screen 6-10'
2	-							
3	-							
4	-							
5	-							
16	-							
17  18	-							
IO  I9	-							
20	-							
	* units f - fine	relative to ; m - mediu ot applica	ım; c - coa			END OF BORING @ 10'		
		Same as Checke	above			Date:		

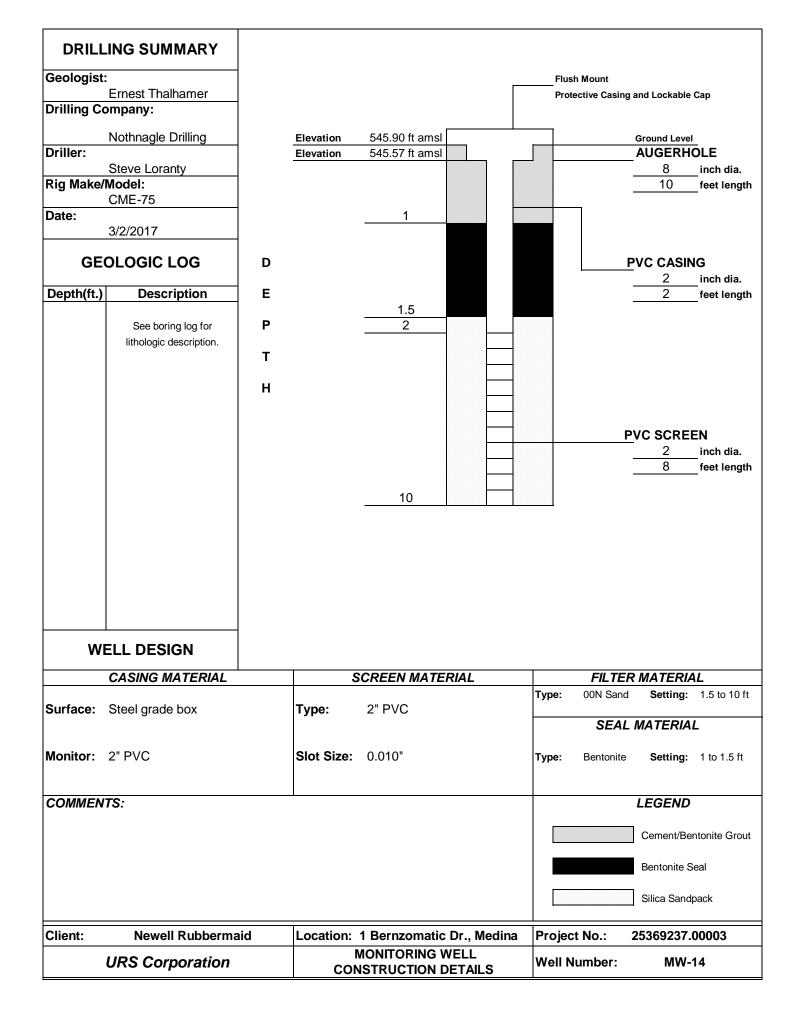
Monitoring Well Construction Logs

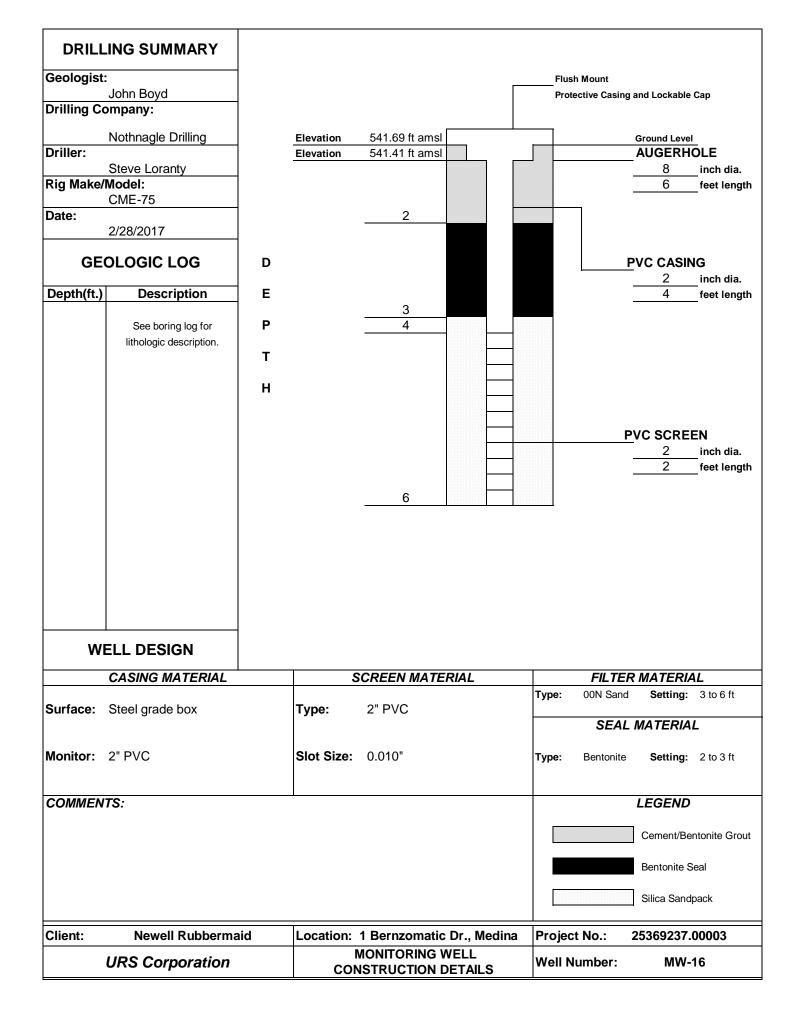
Select Remedial Investigation Monitoring Well Construction Logs

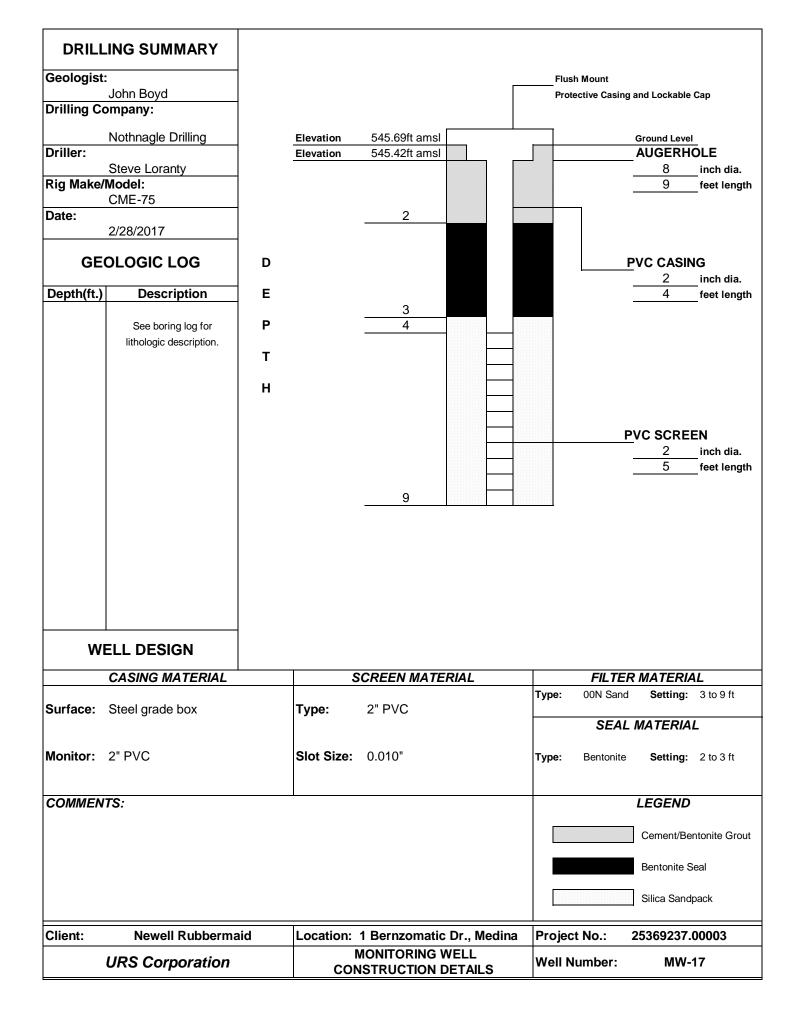


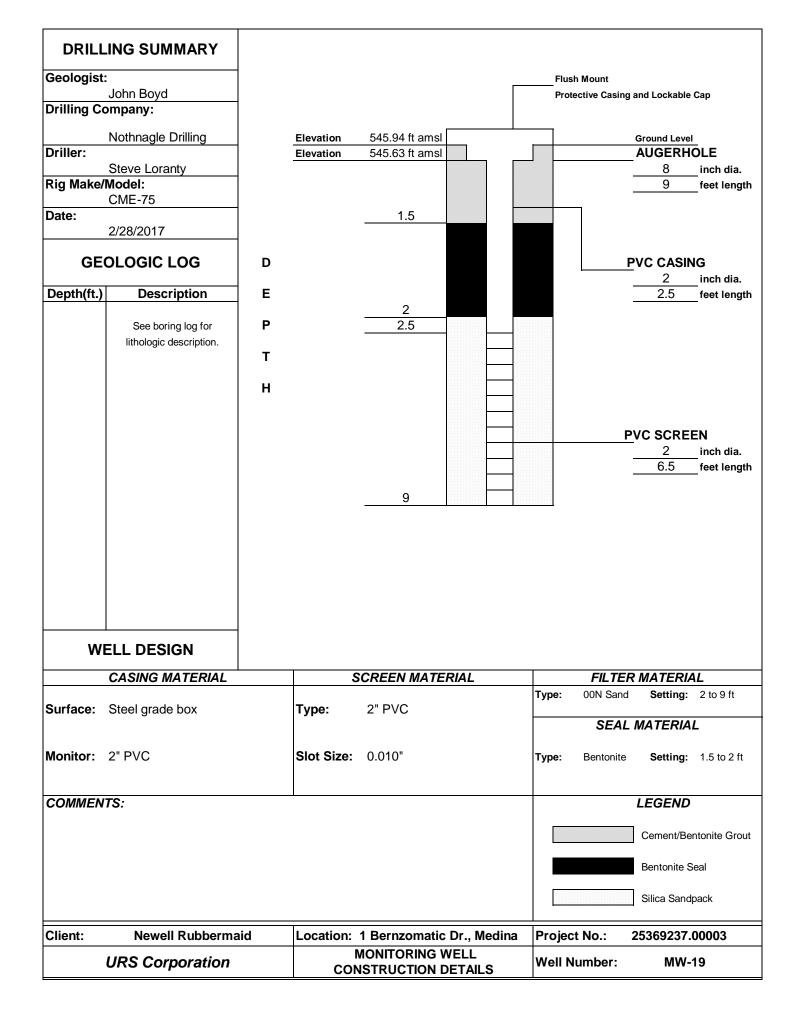


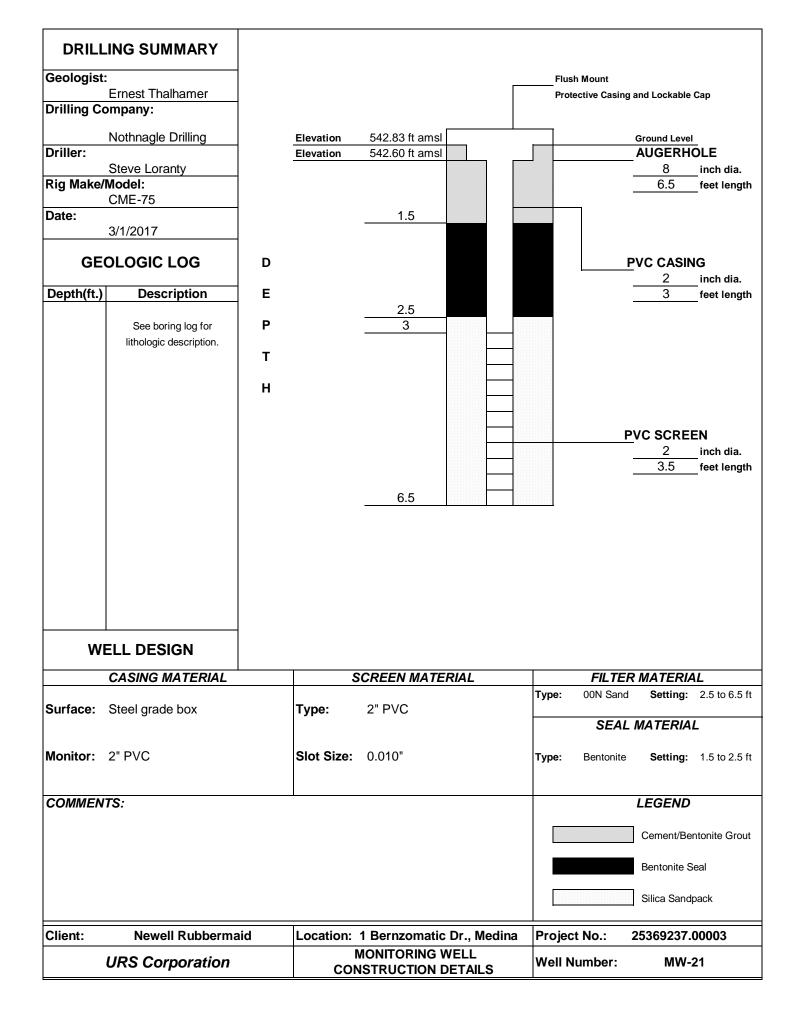




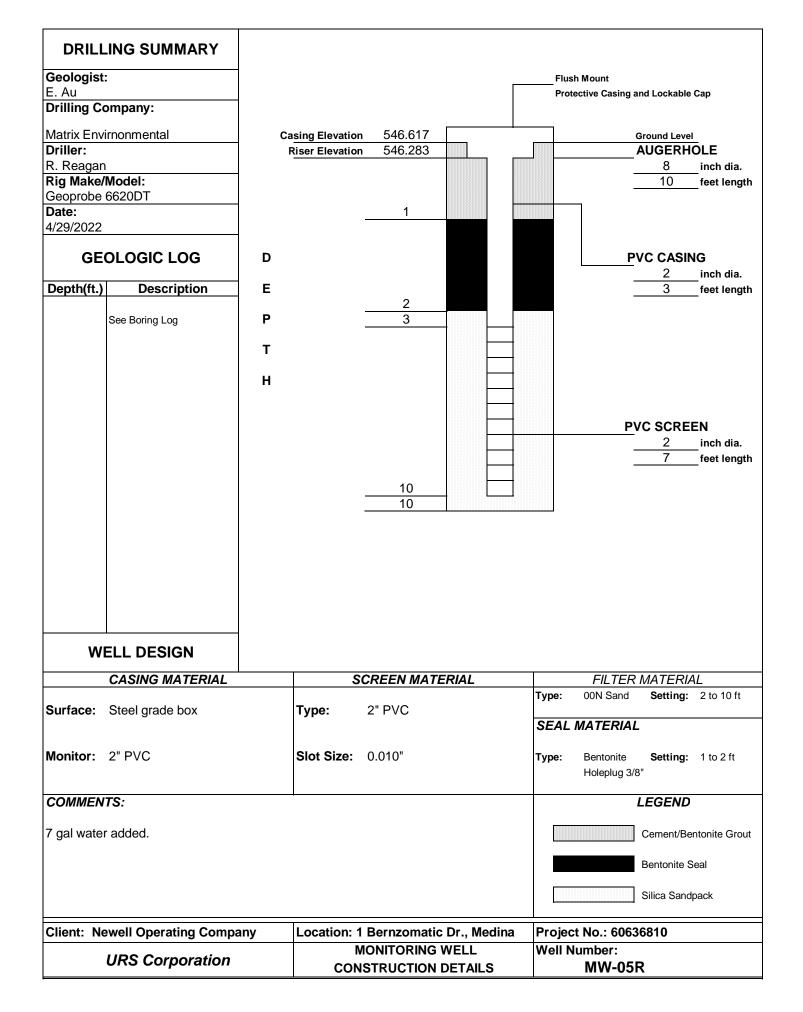


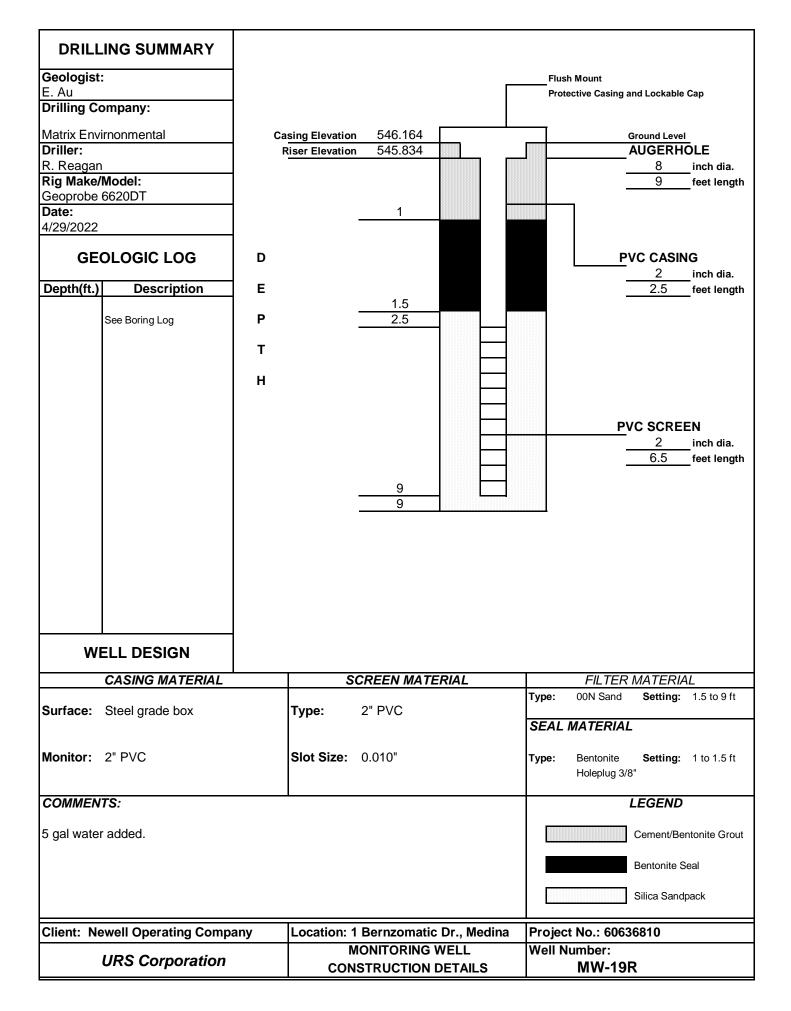


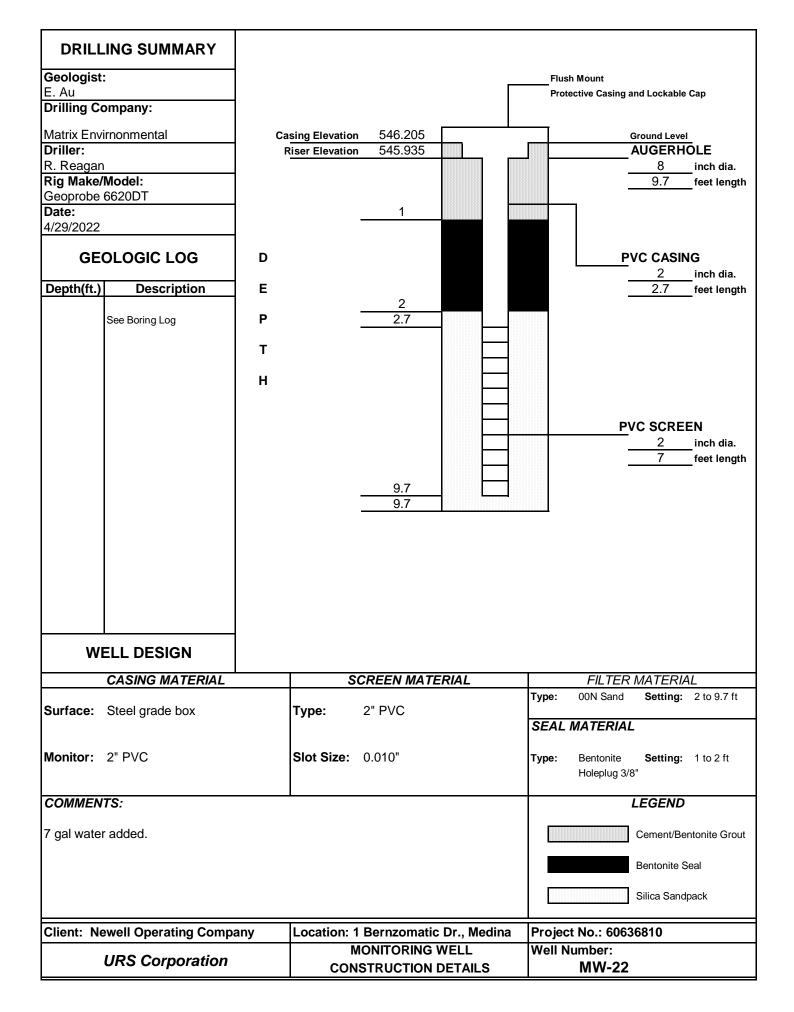




Pre-Design Investigation Monitoring Well Construction Logs







Well Development Logs

### **URS** Corporation

PROJECT TITLE: <u>1 Bernzo</u>	omatic Dr	ive, Medin	a, NY				WELL NO.	: MW-19R		
PROJECT NO.: 6063681	0									
STAFF: E.Au / P	. Fairbanl	ks								
DATE(S):5/2/2	2022									
1. TOTAL CASING AND SC	REEN LEI	NGTH (FT.	)		=	8	.8	WELL ID. 1"	VOL. (GAL/FT) 0.04	
2. WATER LEVEL BELOW	TOP OF C	ASING (F	Г.)		=	3	.1	2"	0.17	
3. NUMBER OF FEET STAN	NDING WA	ATER (#1 -	#2)		=	5	.7	3"	0.38	
4. VOLUME OF WATER/FC	OT OF C	ASING (GA	L.)		=	0.	17	4"	0.66	
5. VOLUME OF WATER IN	CASING (	GAL.)(#3 x	#4)		=	1	.0	5"	1.04	
6. VOLUME OF WATER TO	REMOVE	E (GAL.)(#5	x)		=	4	.8	6"	1.50	
7. VOLUME OF WATER AC	TUALLY F	REMOVED	(GAL.)		=		2	8"	2.60	
								V=0.0408 x (CASI	OR NG DIAMETER) <sup>2</sup>	
				AC		ED VOLU		D (GALLONS)		
PARAMETERS	0.5	1	-	1.5	1.75	2				
рН	-	7.6	-	8.5	8.0	7.9				
SPEC. COND. (umhos)	-	1.214	-	1.440	1.436	1.5				
APPEARANCE	-	choc.milk	-	sl. cloudy	sl. cloudy	sl. cloudy				
TURBIDITY (NTU)	-	2920	-	72.70	51.08	117.31				
TEMPERATURE (°C)	-	10.2	-	10.0	10.0	10.0				
WATER LEVEL (ft bgs)	8.90	7.97	8.33	7.25	7.76	7.13				
TIME	9:49	11:40	13:20	14:30	15:15	16:03				
COMMENTS: Riser currently left high for t above as below ground sur			o complet	ting flushn	nount. Cu	irrent sticl	kup 2.20' ft	above ground sur	face - all measure	ments
Dry @ 0.5 gallons; surged y 11:30 DTW = 7.97. Resurg 13:20 DTW = 8.33; Turn o 14:30 DTW = 7.25; Turned 15:15 DTW = 7.76; dry afte 16:00 DTW = 7.13; Dry afte Final DTB = 9.08' bgs hard	well with s ge well an n pump; - l on pump er < 1 min er < 1 min	surgebloci d pump - < 1/2 gal p p; pumpec	Dry < 5 n ourged th	nin @ 11:	40	•				

### **URS** Corporation

PROJECT TITLE: 1 Bernzo	omatic Driv	e, Medina	a, NY				WELLNC	).:	MW-05R		
PROJECT NO.: 6063681	0										
STAFF: E.Au / P.	. Fairbanks	8									
DATE(S): 5/2/	2022										
								WE	ELL ID.	VOL. (GAL/FT)	
1. TOTAL CASING AND SC		IGTH (FT.	)		=	9	.0		1"	0.04	
2. WATER LEVEL BELOW	TOP OF C	ASING (F	Г.)		=	3	.9		2"	0.17	
3. NUMBER OF FEET STAI	JUMBER OF FEET STANDING WATER (#1 - #2)						.1		3"	0.38	
4. VOLUME OF WATER/FC	OT OF CA	SING (GA	.L.)		=	0.	17		4"	0.66	
5. VOLUME OF WATER IN	CASING (	GAL.)(#3 x	#4)		=	0	.9		5"	1.04	
6. VOLUME OF WATER TO	O REMOVE	(GAL.)(#5	;x)		=	4	.3	6"		1.50	
7. VOLUME OF WATER AC	(GAL.)		=	14	4.5	. <u> </u>	8"	2.60			
								V=0.04	08 x (CASIN	OR IG DIAMETER) <sup>2</sup>	
	1			100							
PARAMETERS	0	1	2.5	4	6	8	10	ED (GALLC 12	14.5		
рН	-	7.87	7.18	7.42	7.32	7.28	7.29	7.27	7.27		
SPEC. COND. (umhos)	-	0.700	0.724	0.748	0.769	0.782	0.784	0.794	0.792		
	- h 11	- h 'N			a la code c			ما مامنیاب	al alavidu		
APPEARANCE	Choc.milk	choc.milk	choc.milk	cloudy	cloudy	cloudy	si. cioudy	sl. cloudy	si. ciouay		
TURBIDITY (NTU)	-	5546	4260	1363	300	250	78.50	68.75	68.49		
		0.0	0.0	0.0		0.0		0.0	0.0		
TEMPERATURE (°C)	-	9.0	9.0	8.8	8.8	8.8	8.8	8.8	8.8		
WATER LEVEL (ft bgs)	5.80	6.80	6.85	6.9	7.15	7.21	6.88	7.17	7.25		
TIME	10:10	10:15	10:20	10:25	10:30	10:40	10:50	11:00	11:10		
COMMENTS:	10.10	10.10	10.20	10.20	10.00	10.10	10.00	11.00	11.10		<u> </u>
Riser currently left high for fi	-	g prior to	completing	g flushmo	unt. Curre	ent stickup	o 1.95 ft a	bove grour	nd surface	- all measurement	S
above as below ground surf	ace (bgs)										

9:53 Start surge with block; 10:03 done with surge

10:10 pupming with peristatic pump at approx. 1000 ml/min. approx 1.25 gal every 5 min

10:20 resurge with just tubing; started to clear up after about 2 min, surged again.

need to pull an extra 7 gallons out to acocunt for drilling water used to prevent blockage/bridging when the well was built Done at 11:10

Final DTB = 9.85ft bgs hard bottom

### **URS** Corporation

PROJECT TITLE: 1 Bernzo	omatic Driv	ve, Medina	a, NY				WELL NO	.:	MW-22	(pg 1 of 2)	
PROJECT NO.: 6063681	10										
STAFF: E.Au / P	. Fairbank	S									
DATE(S):5/2/	/2022										
								WE	LL ID.	VOL. (GAL/FT)	
1. TOTAL CASING AND SC		NGTH (FT	.)		=	9	.2		1"	0.04	
2. WATER LEVEL BELOW	TOP OF C	ASING (F	Т.)		=	3	.4		2"	0.17	
3. NUMBER OF FEET STA	NDING WA	TER (#1 -	#2)		=	5	.8		3"	0.38	
4. VOLUME OF WATER/FO	DOT OF CA	SING (GA	NL.)		=	0.	17		4"	0.66	
5. VOLUME OF WATER IN	CASING (	GAL.)(#3 x	: #4)		=	1	.0		5"	1.04	
6. VOLUME OF WATER TO	O REMOVE	(GAL.)(#5	5 x )		=	5	.0		6"	1.50	
7. VOLUME OF WATER AC	CTUALLY F	REMOVED	(GAL.)		=	1	5	8"		2.60	
								V=0.040	08 x (CASIN	OR NG DIAMETER) <sup>2</sup>	
PARAMETERS	0	1	2	2.5	3	<u>ED VOLU</u> 4	4.5	ED (GALLC 5	6	7	9
рН	-	7.46	7.01	7.01	7.55	7.07	8.08	7.26	7.13	7.10	7.09
SPEC. COND. (umhos)	-	1.214	1.283	1.308	1.283	1.406	1.537	1.537	1.496	1.587	1.573
APPEARANCE	choc milk	choc milk	choc milk	choc milk	choc milk	choc milk	choc milk	choc.milk	cloudy	cloudy	cloudy
		01100.111111	orioo.rriiik	01100.11111	orioo.rriiik	01100.11111	onoo.miik	onoo.miit	oloudy	oloudy	loudy
TURBIDITY (NTU)	-	5722	4498	758	1467	5636	1700	3972	1094	1037	245
TEMPERATURE (°C)	_	9.9	9.7	9.7	11.2	9.9	12.1	10	10.0	10.1	10.4
				dry		dry		-		-	dry
WATER LEVEL (ft bgs)	5.25	6.85	7.15	7.15	6.1	9.23	3.5	6.25	7.95	9.52	9.60
TIME	9:20	9:25	9:30	9:35	11:55	12:05	12:45	12:50	13:00	13:05	13:10
COMMENTS: Riser currently left high for f	•			a fluobro o	unt Curre	nt atick			d ourfoco		to

Riser currently left high for final grading prior to completing flushmount. Current stickup 2.55 ft above ground surface - all measurements above as below ground surface (bgs)

9:00 soft bottom at start; start surging with surge block; 9:20 switch to peristaltic pump for purging; 800-900 mL/min; dry after about 2.5 gallons 11:50 DTW = 3.47 ft bgs; surge with surge block again for approx. 5 min. then repurge; dry after 1.5 additional gallons purged (4 total) 12:45 DTW = 3.50 ft bgs; no additional surge; turn on pump;

13:05 started to get slugs of air, water coming up is pure recharge; pumping at approx. 500 mL/min

13:15 dry stopped and let recharge

14:35 Recharged to 3.45 ft bgs; reastart pump; at 14:47 started to get air slugs again, continued to purge recharging water until 15 gals

Final DTB = 9.60 ft bgs

### **URS** Corporation

PROJECT TITLE: 1 Bernzo	a, NY				WELL NO.:	MW-22	(pg 2 of 2)			
PROJECT NO.: 6063681	0									
STAFF: E.Au / P.	Fairbank	S								
DATE(S): 5/2/	2022									
								WELL ID.	VOL. (GAL/FT)	
1. TOTAL CASING AND SC	REEN LEI	NGTH (FT.	.)		=	9.	.2	1"	0.04	
2. WATER LEVEL BELOW	TOP OF C	ASING (F	Т.)		=	3.	.4	2"	0.17	
3. NUMBER OF FEET STAN		ATER (#1 -	· #2)		=	5.	.8	3"	0.38	
4. VOLUME OF WATER/FC	OT OF CA	ASING (GA	AL.)		=	0.	17	4"	0.66	
5. VOLUME OF WATER IN	CASING (	GAL.)(#3 x	: #4)		=	1.	.0	5"	1.04	
6. VOLUME OF WATER TO	REMOVE	E (GAL.)(#5	5 x)		=	5.	.0	6"	1.50	
7. VOLUME OF WATER AC	(GAL.)		= 15			8"	2.60			
								V=0.0408 x (CAS	OR ING DIAMETER) <sup>2</sup>	
	1							· · · · ·	- ,	
		1	1				ME PURGE	D (GALLONS)		1
PARAMETERS	10	11	12	13	14	15				
рН	6.98	6.99	7.06	7.06	7.06	7.07				
SPEC. COND. (umhos)	1.580	1.559	1.605	1.588	1.612	1.605				
APPEARANCE	cloudy	sl. cloudy	sl. cloudy	sl. cloudy	sl. cloudy	clearing				
						0				
TURBIDITY (NTU)	611	633	52.06	49.87	63.70	27.41				
TEMPERATURE (°C)	9.7	9.9	9.9	9.9	9.9	9.9				
- \ - /	-									
WATER LEVEL (ft bgs)	8.46	9.60	9.60	9.60	9.60	9.60				
TIME	13:45	14:50	14:55	15:00	15:05	15:10				
COMMENTS:	•	•	•	•	• .		•			
Riser currently left high for fi	-		completin	g flushmo	ount. Curre	ent stickup	2.55 ft abo	ove ground surface	e - all measurement	ts
above as below ground surf	ace (bgs)									

9:00 soft bottom at start; start surging with surge block; 9:20 switch to peristaltic pump for purging; 800-900 mL/min; dry after about 2.5 gallons 11:50 DTW = 3.47 ft bgs; surge with surge block again for approx. 5 min. then repurge; dry after 1.5 additional gallons purged (4 total) 12:45 DTW = 3.50 ft bgs; no additional surge; turn on pump;

13:05 started to get slugs of air, water coming up is pure recharge; pumping at approx. 500 mL/min

13:15 dry stopped and let recharge

14:35 Recharged to 3.45 ft bgs; reastart pump; at 14:47 started to get air slugs again, continued to purge recharging water until 15 gals

Final DTB = 9.60 ft bgs

Groundwater Purge Logs

Project:		60636810.000	00	Site:	Bernz	comettic	Well I.D.:	PDI	-1	
Date:	4/27/21	Samplin	g Personnel	E.AV			_ Company: _	U	RS	-
Purging/ Sampling Device:	Per	pump		Tubing Type:	LDP	E	Pump/Tubing Inlet Location:		-2 SC -12 <sup>1</sup> midpoint	Tempsint Tempsint
Measuring Point:	Below Top of Riser	Initial Depth to Water:	1	Depth to Well Bottom:	12	Well Diameter:		Screen Length:	4'	_
Casing Type:	P	vc		Volume in 1 Well Casing (liters):			Estimated Purge Volume (liters):			
Sample ID		)I-1. VOG	GW	Sample Time:	1015	5	QA/QC:	No		
Samp	le Parameters:	1009								Ξ

### PURGE PARAMETERS

TIME	pН	TEMP (°C)	SP. COND. (mS/cm)	DISS. O <sub>2</sub> (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1015	3.11	8.8	1.480	1.53	2249	-101.2	-	-
					-			
		-						
								-
	-				-			
			-					
Tolerance:	0.1		3%	10%	10%	+ or - 10		

Information: WATER VOLUMES-0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ( $vol_{ev} = \pi r^2 h$ )

Project:	60636810	Site:	Bernzomatic	Well I.D.:	PDI-2
Date:	427 27 Sampling Personnel:	E.A	<i>v</i>	_ Company: _	URS
Purging/ Sampling Device:	Peristaltic	Tubing Type:	LDPE	Pump/Tubing Inlet Location:	Sp-22 Scroenpein Scimple Screen midpoint
Measuring Point:	Below Top of Initial Depth Riser to Water:	Depth to Well Bottom:	Well Diameter:	Hydropmeh	Screen Length: <u>7-11</u> (4')
Casing Type:	PVC	Volume in 1 Well Casing (liters):		Estimated Purge Volume (liters):	
Sample ID: Samp	PDI-2-GW	Sample Time:	1220	QA/QC:	None

### PURGE PARAMETERS

TIME	рН	TEMP (°C)	Sp. COND. (mS/cm)	DISS. O <sub>2</sub> (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1220	7.51	7.4	1,482	2.92	2362	-67.6	-	
				-				
				-				
					-			
Tolerance:	0.1		3%	10%	10%	+ or - 10	1	

Information: WATER VOLUMES-0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ( $vol_{vvl} = \pi^2 h$ )

Project: Date:	60636810	Site:	Bernzo	omatic	_ Well I.D.: _ Company:		-3 RS	
Purging/ Sampling Device:	Peristaltic	Tubing Type:	LDPE		Pump/Tubing Inlet Location:		- Z Z neen point midpoint	Grab
Measuring Point:	Below Top of Initial Depth Riser to Water: 4.7	Depth to Well Bottom:	10	Well Diameter:	1	Screen Length:	6-10	
Casing Type:	PVC	Volume in 1 Well Casing (liters):	-		Estimated Purge Volume (liters):	-		
Sample ID: Samp	PDJ-3_GW le Parameters:	Sample Time:	1430		QA/QC:	None		
	÷							

### PURGE PARAMETERS

TIME	рН	TEMP (°C)	Sp. COND. (mS/cm)	DISS. O <sub>2</sub> (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1430	7,11	8.8	1,459	1,15	3189	- 78.6	-	4.0
						-		
	-							
_								-
						-		
				-				
		-						
Tolerance:	0.1		3%	10%	10%	+ or - 10		

Information: WATER VOLUMES-0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ( $vol_{evi} = \pi^2 h$ )

Project:	-	60636810	-	Site:	Be	mzomatic	Well I.D.:	PDI	- 4
Date:	4 28 22	Samplin	g Personnel:	E.A	u / P. Fair	banks	_ Company:	UR	S
Purging/ Sampling Device:		Peristaltic		Tubing Type:		LDPE	Pump/Tubing Inlet Location:	SP-22 Sc Well p Screen m	oint
Measuring Point:	Below Top of Riser	Initial Depth to Water:	4'	Depth to Well Bottom:	10'	Well Diameter:	1"	Screen Length:	4 ft
Casing Type:	PV	′C		Volume in 1 Well Casing (liters):	-		Estimated Purge Volume (liters):	-	
Sample ID:	PDI	-4_6	w	Sample Time:	9	26	QA/QC:	None	

### PURGE PARAMETERS

TIME	рН	TEMP (°C)	Sp. COND. (mS/cm)	DISS. O <sub>2</sub> (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
926	7.25	11.1	1,705	0.51	3563	-146,1	-	41
						-		
					-	-		
			-		_			
				1				
								1
								1.
Tolerance:	0.1		3%	10%	10%	+ or - 10		

Information: WATER VOLUMES-0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft, 4 inch diameter well = 2470 ml/ft ( $vol_{cyl} = \pi r^2 h$ )

Project:		60636810		Site:	Bernzo	matic	Well I.D.:	PDI	- 5	
Date: 4	1/28/22	Samplin	g Personnel:	E.A	u / P. Fairbank	KS	_ Company: _	UR	RS	
Purging/ Sampling Device:		Peristaltic		Tubing Type: _	LDF	ΡE	Pump/Tubing Inlet Location:	SP-22 Scr Well p Screen m	oint	
	Below Top of Riser	Initial Depth to Water:	3'	Depth to Well Bottom:	10'	Well Diameter:	1"	Screen Length:	4 ft	
Casing Type:	P\	/C		Volume in 1 Well Casing (liters):			Estimated Purge Volume (liters):			
Sample ID:	PDI	-5.Gu	,	Sample Time:	1230		QA/QC:	None		

#### PURGE PARAMETERS

TIME	pН	TEMP (°C)	Sp. COND. (mS/cm)	DISS. O <sub>2</sub> (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
230	8.34	14.4	1,223	1,29	4458	-143.7	)	31
_					1	-		
						-		
								-
								-
-								-
					-			
		-				-	-	-
		-						
	1							· · · · ·
Tolerance:	0.1		3%	10%	10%	+ or - 10	(+++)	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ( $vol_{cvl} = \pi c^2h$ )

Project:	60636810	Site: Bernzomatic	Well I.D.:	PDI-6
Date:	42722 Sampling Personne		_ Company:	URS
Purging/ Sampling Device:	Peri	Tubing Type: LDPE	Pump/Tubing Inlet Location:	Screen midpoint
Measuring Point:	Below Top of Initial Depth Riser to Water: 2	Well Bottom: 11.3 Well Diameter:		Screen Length: 7-11
Casing Type:	PVC	Volume in 1 Well Casing (liters):	Estimated Purge Volume (liters):	-
Sample ID: Sample	PDJ-6-GW e Parameters: VOG	Sample 1108	QA/QC:	NONE

### PURGE PARAMETERS

TIME	pH	TEMP (°C)	Sp. COND. (mS/cm)	DISS. O <sub>2</sub> (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1108	7,40	813	1.596	1,02	696.7	-127.3	-	-
				1	Har	2 3		1.
								1.1
					12.6		in the	
				1 10			1	Sanda .
								1
							4	28
1				1. A				
-							-	
	-							
olerance:	0.1		3%	10%	10%	+ or - 10		

Information: WATER VOLUMES-0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ( $vol_{cyl} = \pi r^2h$ )

Project:	60636810	Site:	Berr	nzomatic	Well I.D.:	PDI	-7
Date:	1272 Sampling Personnel	£. A	V		_ Company: _	UF	RS
Purging/ Sampling Device:	Peristalic	_Tubing Type: _	LDI	PE	Pump/Tubing Inlet Location:	SP-2 Screen	22 Grab Sangli midpoint
Measuring Point:	Below Top of Initial Depth Riser to Water:	Depth to Well Bottom:	10	Well Diameter:		Screen Length:	6-10'
Casing Type:	PVC	Volume in 1 Well Casing (liters):	-		Estimated Purge Volume (liters):	~	
Sample ID: Samp	PDI-7 le Parameters: VOCS	Sample Time:	13	15	QA/QC:	None	

### PURGE PARAMETERS

TIME	рН	TEMP (°C)	Sp. COND. (mS/cm)	DISS. O <sub>2</sub> (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1315	7.50	7.7	1.990	2,40	1402	- 34.7	-	
						-		
						1.22.0.4		
Tolerance:	0.1		3%	10%	10%	+ or - 10		

Information: WATER VOLUMES-0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft; (vol<sub>cvl</sub> =  $\pi t^2 h$ )

Project:		60636810		Site:	Bern	zomatic	Well I.D.:	PDI	-8	
Date:	4/27/22	Samplin	ng Personnel:	E.Au	_		_ Company: _	UF	RS	
Purging/ Sampling Device:	Per	ristaltic	,	Tubing Type:	LDP	E	Pump/Tubing Inlet Location:		22 midpoint	sanpl
Measuring Point:	Below Top of Riser	Initial Depth to Water:	est.6	Depth to Well Bottom:	10	Well Diameter:	_1	Screen Length:	6-10	
Casing Type:	P\	/C		Volume in 1 Well Casing (liters):		_	Estimated Purge Volume (liters):		_	
Sample ID:	PDJ	-8_6 NOC		Sample Time:	15	10	QA/QC:	None		
Gump	ie i diamotoro.									

### PURGE PARAMETERS

TIME	pН	TEMP (°C)	Sp. COND. (mS/cm)	DISS. O <sub>2</sub> (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1510	7.31	9,0	1.758	4.33	4927	- 62.4	-	NG
							-	
							-	-
			1					
	_							
		-						
Tolerance:	0.1		3%	10%	10%	+ or - 10		

Information: WATER VOLUMES-0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;

4 inch diameter well = 2470 ml/ft (vol<sub>cvl</sub> =  $\pi r^2 h$ )

	60636810			Bernzo	omatic	Well I.D.:	PDI-	i tent
4/28/22	Sampli	ng Personnel:	E.A	u / P. Fairban	ks	_ Company:	UR	3
	Peristaltic		Tubing Type:	LDI	PE	Pump/Tubing Inlet Location:	Well p	oint
Below Top of Riser	Initial Depth to Water:	3.4*	Depth to Well Bottom:	10'	Well Diameter:	1"	Screen Length:	4 ft
PV	rc.		Volume in 1 Well Casing (liters):			Estimated Purge Volume (liters):	<u>·</u>	
A. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.			Sample Time:	10 30		QA/QC:	none	
	Below Top of Riser PV PDI -	HIZX/ZZ     Samplin       Peristaltic       Below Top of Initial Depth Riser       PVC   PVC	H12*/22       Sampling Personnel:         Peristaltic         Below Top of Initial Depth Riser       3, 4 *         PVC	H12*/22       Sampling Personnel:	Output         H12*/22       Sampling Personnel:       E.Au / P. Fairban         Peristattic       Tubing Type:       LDi         Below Top of Initial Depth Riser       3, 4 *       Depth to Well Bottom:       10'         PVC       Volume in 1 Well Casing (liters):	Below Top of Initial Depth 3, 4 *       Depth to Well         PVC       Volume in 1         PVC       Sample       ID 90	H2x/22       Sampling Personnel:       E.Au / P. Fairbanks       Company:         Peristaltic       Tubing Type:       LDPE       Pump/Tubing Inlet Location:         Below Top of Initial Depth to Water:       3.4 *       Depth to Well Bottom:       10'       Well Diameter:       1"         Volume in 1 Well Casing (liters):       Volume in 1 Well Casing (liters):       Sample Time:       10''''''''''''''''''''''''''''''''''''	H2x/22       Sampling Personnel:       E.Au / P. Fairbanks       Company:       UR         Peristaltic       Tubing Type:       LDPE       Deptilize       Screen m         Below Top of Initial Depth Riser       3, 4 *       Depth to Well Bottom:       10'       Well       Screen m         Volume in 1       Well Casing       UR       Screen       Length:       Estimated         PVC       Sample       10''       Sore       Screen       Length:         PDE -9_GW       Sample       10''''       Sore       Sore

#### PURGE PARAMETERS

TIME	pН	TEMP (°C)	Sp. COND. (mS/cm)	DISS. O <sub>2</sub> (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
030	7.46	11.0	0.857	1.69	4219	-61.5	1	3.41
					1			
	-							
								-
			-					
olerance:	0.1		3%	10%	10%	+ or - 10		

Information: WATER VOLUMES-0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ( $vol_{evi} = \pi r^2 h$ )

Project:		60636810	_	Site: _	Bernze	omatic	Well I.D.:	PDI	-10
Date:	4/20/22	Samplin	g Personnel:	E.Au	ı / P. Fairbar	hks	_ Company: _	UR	6
Purging/ Sampling Device:		Peristaltic		Tubing Type:	LD	PE	Pump/Tubing Inlet Location:	SP-22 Sci Well p Screen m	oint
Measuring Point:	Below Top of Riser	Initial Depth to Water:	3.50	Depth to Well Bottom:	10'	Well Diameter:	1"	Screen Length:	4 ft
Casing Type:	PV	rc		Volume in 1 Well Casing (liters):			Estimated Purge Volume (liters):		
Sample ID	PDI-1	OL GW		Sample Time:	1131	Ø	QA/QC:	None	
	ole Parameters:	VOCs							

### PURGE PARAMETERS

TIME	рН	TEMP (°C)	Sp. COND. (mS/cm)	DISS. O <sub>2</sub> (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1130	7.37	/1,1	1,287	1.12	1232	- 56.4	-	3,80
						-		
	-							
						-		-
			-			-		-
		1 2						
							-	-
							-	
					-	-		
Tolerance:	0.1		3%	10%	10%	+ or - 10		

Information: WATER VOLUMES-0.75 inch diameter well = 87 ml/ft; 1 lnch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ( $vol_{evi} = \pi r^2 h$ )

Project:		60636810			Berr	nzomatic	Well I.D.:		
Date:	4/28/22 Sampling Personnel:		E.A	u / P. Fairb	anks	_ Company: _			
Purging/ Sampling Device:		Peristaltic		Tubing Type:	ı	LDPE	Pump/Tubing Inlet Location:	SP-22 Sc Well p Screen m	oint
Measuring Point:	Below Top of Riser	Initial Depth to Water:	4.30	Depth to Well Bottom:	10	Well Diameter:	1"	Screen Length:	4 ft
Casing Type:	P\	/C		Volume in 1 Well Casing (liters): _		_	Estimated Purge Volume (liters):		
Sample ID:	PDJ	5-11-	6W	Sample Time	134	D	QA/QC:	None	

#### PURGE PARAMETERS

TIME	рН	TEMP (°C)	Sp. COND, (mS/cm)	DISS. O <sub>2</sub> (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1340	7.82	11.3	0.831	1.91	5469	\$3.3	1	4,30
								2
-								
					-			
						-		
								-
							-	
				-				
Tolerance:	0.1		3%	10%	10%	+ or - 10	-+-	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;

4 inch diameter well = 2470 ml/ft ( $vol_{cyl} = \pi r^2 h$ )

Project:	606	536810.00000	Site:	Bernz	omatic	Well I.D.:	PDI-	12	_
Date:	4/28/22	Sampling Personnel:	E.Au	/P.Fai	abanto	_ Company:	UR	S	-
Purging/ Sampling Device:	Perist	natic	Tubing Type:	LD	PE	Pump/Tubing Inlet Location:	SP-22 Screen m	point	6-101
Measuring Point:	the second second second second second second second second second second second second second second second se	itial Depth $\sim 5'$	Depth to Well Bottom:	10	Well Diameter:	11	Screen Length:	4'	_
Casing Type:	PVC		Volume in 1 Well Casing (liters):	/	_	Estimated Purge Volume (liters):	_		
Sample ID:	PDI-1	2-6W	Sample Time:	14	55	QA/QC:	None		
Sampl	le Parameters:	NOCS							=

PURGE PARAMETERS

TIME	pН	TEMP (°C)	SP. COND. (mS/cm)	DISS. O <sub>2</sub> (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1455	7.77	13.1	1.344	4.93	6309	103.0	-	~51
					1			
				-	-			
						-		-
		-						
				-		-		
Tolerance:	0.1		3%	10%	10%	+ or - 10		

Information: WATER VOLUMES-0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft (vol<sub>cvi</sub> =  $\pi r^2 h$ )

Remarks:

went dry white taking sample (sucking als) lowed tubing. (tights till)

roject: 60636810		Site: Bernzomatic			Well I.D.:	MW-OSR		
5/9/22	Samplin	ng Personnel:	_	E,Au		Company:	URS	
	Peristaltic		Tubing Type:	LD	DPE	Pump/Tubing Inlet Location:	Screen mic	dpoint
Below Top of Riser	Initial Depth to Water:	5,16	Depth to Well Bottom: 11,	77ft	Well Diameter:	2"	Screen Length:	ft
PV	/C		Volume in 1 Well Casing (liters):		_	Estimated Purge Volume (liters):	<u> </u>	
MW2-0	SR		Sample Time:	133	3	QA/QC:	none	-
	Riser P\	5/9/22 Samplin Peristaltic Below Top of Initial Depth	5/9/22     Sampling Personnel:       Peristaltic       Below Top of Initial Depth Riser     5,16       PVC	5/9/22       Sampling Personnel:         Peristaltic       Tubing Type:         Below Top of Initial Depth Riser       Depth to Well Bottom: 11.         Volume in 1 Well Casing (liters):       Volume in 1 Well Casing	5/9/22       Sampling Personnel:       E.Au         Peristaltic       Tubing Type:       Lt         Below Top of Initial Depth Riser       5,16       Depth to Well Bottom:       11,77 ft         Volume in 1 Well Casing (liters):	Sampling Personnel:       E.Au         Peristaltic       Tubing Type:       LDPE         Below Top of Initial Depth Riser       5,16       Depth to Well Bottom:       Well Diameter:         Volume in 1 Well Casing (liters):	5/9/22       Sampling Personnel:       E.Au       Company:         Peristaltic       Tubing Type:       LDPE       Pump/Tubing Inlet         Peristaltic       Tubing Type:       LDPE       Location:         Below Top of Initial Depth Riser       5,16       Depth to Well Bottom:       Well       Diameter:       2"         Volume in 1       Well Casing (liters):       Users:       Company:       Estimated Purge Volume         PVC       Sample       Sample       Sample	Sampling Personnel:       E.Au       Company:       URS         Peristaltic       Tubing Type:       LDPE       Location:       Screen mining         Peristaltic       Tubing Type:       LDPE       Location:       Screen mining         Below Top of Initial Depth Riser       5,16       Depth to Well Bottom:       Well       Screen         Volume in 1       Volume in 1       Volume       Purge       Volume       Volume         PVC       (liters):

### PURGE PARAMETERS

TIME	рН	TEMP (°C)	Sp. COND. (mS/cm)	DISS. O <sub>2</sub> (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1258	9.35	11.2	0.736	2.12	48.19	61.6	320	5,16
1303	8.07	10.5	0.732	1.18	29.64	64.2	280	5.56
1308	7.76	10.5	0.736	0.84	9.37	59.4	280	5.57
1313	7.64	10.6	6.746	0.24	7.04	53.5	280	5.59
1318	7.57	10.6	0.750	0.60	4.99	46.7	280	5.61
1328	7:55	10.5	0.754	0.59	4.72	44.3	280	5.6
1333	7.53	10.4	0-758	0.60	4-57	42.1	280	5.61
_			02020					
		-						
		-			1.			
				-				
folerance:	0.1		3%	10%	10%	+ or - 10		

Information: WATER VOLUMES-0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;

4 inch diameter well = 2470 ml/ft ( $vol_{cvl} = \pi r^2 h$ )

60636810 5 9 22 Sampling Personnel:			Site: Bernzomatic			Well I.D.:	MW-0	7
						_ Company: _	URS	
	Peristaltic		Tubing Type:	LD	PE	Pump/Tubing Inlet Location:	Screen mic	lpoint
elow Top of Riser	Initial Depth to Water:	4.38	Depth to Well Bottom:	8.84 ft	Well Diameter:	2"	Screen	ft
PV	'C		Volume in 1 Well Casing (liters):			Estimated Purge Volume (liters):		
MW-	07		Sample Time:	1449	1	QA/QC:	Done	
34	Riser	Peristaltic elow Top of Initial Depth Riser to Water: PVC	Peristaltic elow Top of Initial Depth Riser to Water: <u>4,38</u>	elow Top of Initial Depth <u>Riser</u> to Water: <u>4,38</u> <u>Volume in 1</u> <u>Vell Casing</u> (liters): <u>Sample</u>	Peristaltic Tubing Type: LD elow Top of Initial Depth Riser to Water: 4,38 Well Bottom: 8.84 ft Volume in 1 Well Casing (liters):	Peristaltic     Tubing Type:     LDPE       elow Top of Initial Depth Riser     Depth to     Well       to Water:     4,38     Well Bottom:     8,84 ft     Diameter:       Volume in 1     Well Casing (liters):     Sample     LOPE	Peristaltic     Tubing Type:     LDPE     Pump/Tubing Inlet       elow Top of Initial Depth     Tubing Type:     LDPE     Location:       elow Top of Initial Depth     Use the second sec	Peristaltic     Tubing Type:     LDPE     Location:     Screen mic       elow Top of Initial Depth Riser     to Water:     4,38     Depth to     Well     Screen       Volume in 1     Volume in 1     Volume in 1     Purge     Volume in 1     Volume in 1       PVC     (liters):

#### PURGE PARAMETERS

TIME	рН	TEMP (°C)	Sp. COND. (mS/cm)	DISS. O <sub>2</sub> (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
409	8.90	11.2	0.683	1.38	\$7.27	80.5	300	3.95
444	7.58	10.6	0.672	0.54	24.58	52.2	300	4.15
414	7.41	10.5	0.657	0.49	13.85	-12,1	300	4.20
429	7.33	10.4	0.650	0.57	14.45	-19.9	300	4.23
1434	7.29	10.4	0.658	g.St.	12.67	-26.6	300	4.24
1439	7.26	10.5	0.663	049	9.70	-32.6	300	4.28
1449	724	10 4	0.663	0.47	9.45	-37.7	+ 300	4.2
. 1								
							1	
-					-			-
				-				
Tolerance:	0.1		3%	10%	10%	+ or - 10		

Information: WATER VOLUMES-0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;

4 inch diameter well = 2470 ml/ft (vol<sub>cv</sub> =  $\pi r^2 h$ )

Project:	60636810	Site:	Bernzomatic	Well I.D.:	MW-14
Date:	5 9 22 Sampling Personn	el: P. Fair	baules	_ Company: _	URS
Purging/ Sampling Device:	Peristaltic	Tubing Type:	LDPE	Pump/Tubing Inlet Location:	Screen midpoint
Measuring Point:	Below Top of Initial Depth Riser to Water: 1.20	Depth to Well Bottom:	9,22 Well Diameter:	_Z"_	Screen Length:
Casing Type:	PVC	Volume in 1 Well Casing (liters):		Estimated Purge Volume (liters):	
Sample ID:	MW-14	Sample Time:	0922	QA/QC:	none
Samp	le Parameters: VOCs	metals			

#### PURGE PARAMETERS

TIME	рН	TEMP (°C)	Sp. COND. (mS/cm)	DISS. O <sub>2</sub> (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0842	7,41	10,2	1,113	1.58	70.60	-14.8	300	1.88
2847	10,99	10.4	1.041	0.66	37.99	-16.2	300	1.89
852	6,95	10.7	0.902	0.83	42.14	-11.7	300	1.90
1857	4.92	10.9	0.928	0.80	16.01	-28.1	300	1.91
2002	6.89	10.9	1057	0.42	4.00	- 30.4	300	1.91
)G12	6.84	11.0	1.111	0.38	3.68	- 32.1	360	1.92
1917	6.83	11.0	1,140	0.36	4.09	-32.0	300	1.92
1922	6.8	11,0	1.176	0.34	7.80	- 32.1	300	1.72
100 C								
14								
				-			-	
								1
		1	11	-				
		-				-	-	
		-		-				
Tolerance:	0.1		3%	10%	10%	+ or - 10		1

Information: WATER VOLUMES-0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft (vol<sub>cvi</sub> =  $\pi r^2 h$ )

Project:	60636810	Site:	Bernzomatic	Well I.D.:	MW-16
Date:	Stip 22 Sampling Personne	ek	T-Urlm	Company: _	URS
Purging/ Sampling Device:	Peristaltic	Tubing Type:	LDPE	Pump/Tubing Inlet Location:	Screen midpoint
Measuring Point:	Below Top of Initial Depth Riser to Water: 2-60	Depth to Well Bottom:	5.45 Well	2"	Screen Length: ft
Casing Type:	PVC	Volume in 1 Well Casing (liters):	1-76	Estimated Purge Volume (liters):	
Sample ID:	MW-16	Sample Time:	10:00	QA/QC:	NOAR

#### PURGE PARAMETERS

TIME	pН	TEMP (°C)	Sp. COND. (mS/cm)	DISS. O <sub>2</sub> (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0940	7.22	12.1	3.642	1.16	10.36	-98.4	170	2.60
0945	7.05	12.0	3.490	0.74	9.10	-104-8	170	3.55
3950	7.01	11.9	3-570	0.61	6-59	-105-8	170	3.85
0955	7.00	169	3.595	0.58	5-29	-107.6		3.87
1000	7.00	11,9	3.600	0.56	4.76	-108,6	170	3.88
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			-				11000	
	_							-
						1		
		1						
					-			
							1	
		1						
Tolerance:	0.1		3%	10%	10%	+ or - 10		

Information: WATER VOLUMES-0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;

4 inch diameter well = 2470 ml/ft (vol<sub>cw</sub> =  $\pi r^2 h$ )

Project:	60636810	Site: Bernzomatic		Well I.D.:	MW-17	
Date:	5/10/22 Sampling Personne	1:T.C	s & San	_ Company: _	URS	
Purging/ Sampling Device:	Peristaltic	Tubing Type:	LDPE	Pump/Tubing Inlet Location:	Screen midpoint	
Measuring Point:	Below Top of Initial Depth Riser to Water: 3.25	Depth to Well Bottom:	S.68 Well ft Diameter:	2"	Screen Length: <u>ft</u>	
Casing Type:	PVC	Volume in 1 Well Casing (liters):	Well Casing 3 35			
Sample ID:	NW-17	Sample Time:	1220	QA/QC:	nona	
1	e Parameters: VOCs (8260C); Total Metals Chloride (300.0); Methane (1	(6010C/7470B)	; Dissolved Iron (6010 C - F	ield Filtered); Alk	alinity (2320-B);	

### PURGE PARAMETERS

TIME	pН	TEMP (°C)	Sp. COND. (mS/cm)	DISS. O <sub>2</sub> (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1155	8.18	10-7	1.854	1.34	96	132.3	180	3.25
1200	7.51	10-1	1.650	0.64	25.9	-135.6	180	1.50
203	7.48	10.0	1.602	0.51	12.36	-140,2	180	5.45
1210	7.47	10.0	1.592	0.47	13.1	~140.7	150	5.45
1215	7.46	10.0	1.606	0.49	12.4	-137.5	180	5.45
1220	7.45	10.0	1-618	2.47	10-21	-139.7	180	5-45
		-						
					-			
				· · · · · · · · · · · · · · · · · · ·				
		1		1.0				
Tolerance:	0.1		3%	10%	10%	+ or - 10		

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;

4 inch diameter well = 2470 ml/ft (vol<sub>cvi</sub> =  $\pi r^2 h$ )

# LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project:	60636810	Site:	Bernz	omatic	Well I.D.:	MW-	19R
Date:	5/9/22 Sampling Personne	el: P. Fa	whenks		_ Company: _	UF	RS
Purging/ Sampling Device:	Perisfaltie	Tubing Type:	LDP	٤	Pump/Tubing Inlet Location:	Screen	midpoint
Measuring Point:	Below Top of Initial Depth Riser to Water: 5.48	Depth to Well Bottom:	11.26	Well Diameter:	2"	Screen Length:	6.5'
Casing Type:	PVC	Volume in 1 Well Casing (liters):			Estimated Purge Volume (liters):		
Sample ID:		Sample Time:	0916	5 (5/10)	22) anac: _	non	e
Samp	le Parameters: VOCS + m	etels					

#### PURGE PARAMETERS

TIME	рН	TEMP (°C)	Sp. COND. (mS/cm)	DISS. O <sub>z</sub> (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0948	8.41	115	1.437	2.14	2,70	44.7	250	5,48
0953	7.76	10,9	1.2.47	1.59	167.2	3612	240	7.40
0958	7.44	11.0	1,167	1.55	309,23	22.8	240	8.72
0003	2.34	11.1	1.134	Z.17	331,65	33. F	220	10.49
1232								6,65
0910	7.87	13.2	1.398	4.36	20.0	121.7	-	5.46
	-							-
					1			
Tolerance:	0.1		3%	10%	10%	+ or - 10		

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Information: WATER VOLUMES-0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 817 ml/ft. 4 inch diameter well = 2470 ml/ft  $(vol_{ee} = \pi r^2h)$ 

Remarks:

# LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project:	60636810	Site:		Well I.D.:	MW-21
Date:	5/10/22 Sampling Personnel	Turber	E.Au	_ Company: _	URS
Purging/ Sampling Device:	Peristaltic	Tubing Type:	LDPE	Pump/Tubing Inlet Location:	Screen midpoint
Measuring Point:	Below Top of Initial Depth Riser to Water: 1-72	Depth to 5-	ft Diameter:	2"	Screen Length. <u>ft</u>
Casing Type:	PVC	Volume in 1 Well Casing (liters):	2.55	Estimated Purge Volume (liters):	
Sample ID:	MW-21	Sample Time:	1115	QA/QC:	Dop. FD-05/02
Samp	le Parameters: VOCs (8260C); Total Metals Chloride (300.0); Methane (R	6010C/7470B); Di SK-175); Nitrate (3	ssolved Iron (6010 C - F 300.0); Sulfate (300.0)	ield Filtered); Alka	alinity (2320-B);

#### PURGE PARAMETERS

TIME	рН	TEMP (°C)	Sp. COND. (mS/cm)	DISS. O <sub>2</sub> (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1045	8.15	12.8	9.620	3.07	43-7	80.0	200	1.72
050	7.67	12.5	9.556	0.56	15-9	56-1	200	2-76
1055	7.49	12,9	9261	0.60	19-4	34.5	200	3.10
1100	7.45	.2.9	8.764	0.61	23.7	11-3	200	3.12
1105	7.43	12.9	8805	0.57	13-1	2-7	200	3.20
110	7.41	12.9	8.822	0.47	6.25	-5.5	200	3.35
1115	7.40	12-8	2.100	Corr	Pist	1.1.	1	
			1					
		1						
		-						
		-						
		-				1		
				1		-		
				-				
				-				
							1	
Tolerance:	0.1		3%	10%	10%	+ or - 10		I

Information: WATER VOLUMES-0,75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;

4 inch diameter well = 2470 ml/ft (vol<sub>cyl</sub> =  $\pi r^2 h$ )

Remarks:

# LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project:	60636810	Site:	Bernzomatic	Well I.D.:	MW.22	
Date:	5)9/22 Sampling Personn	el: P. Fairbaules	5.Au	Company: _	URS	
Purging/ Sampling Device:	Peristaltic	Tubing Type:	LDPE	Pump/Tubing Inlet Location:	Screen midpoint	
Measuring Point:	Below Top of Initial Depth Riser to Water: 5.57	Depth to Well Bottom: <u>/2</u>	Well 	2"	Screen Length:ft	
Casing Type:	PVC	Volume in 1 Well Casing (liters):		Estimated Purge Volume (liters):		
Sample ID	mw - 22	Sample Time:	1129	QA/QC:	MS/MSD	
Samp	le Parameters: VOCs (8260C); Total Metal Chloride (300.0); Methane	ls (6010C/7470B); D (RSK-175); Nitrate (3	issolved Iron (6010 C - F 300.0); Sulfate (300.0)	ield Filtered); Alka	alinity (2320-B);	

## PURGE PARAMETERS

TIME	pН	TEMP (°C)	Sp. COND. (mS/cm)	DISS. O <sub>2</sub> (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
	7.65	113	1.821	1.46	108.42	96.6	300	6,18
1042	7.24	10.9	1.688	0,69	84.19	54.0	320	6.38
1047	7.16	12.8	1.687	0.64	214.74	28.7	300	6.50
0524	7.12	10.8	1.670	0.59	238.01	13.5	320	657
1059	7.09	10.5	1.656	0.57	222.35	7.2	300	6.53
1104	7107	10.9	1.653	0.55	202.43	4.0	300	6.56
1109	7.07	10.9	1-65K	0.57	187.33	2.1	300	6.55
1114	7.06	10.9	1.614	0.58	180.09	0.6	300	6.56
119	7.00	10.8	1.646	0.53	136.75	-0.9	300	6.58
1124	7.03	10.8	1.642	0.50	127.68		300	6.65
1129	7.03	10.8	1.638	0.50	154,25	-4.0	300	6.54
					-			
_		-				-		
								-
						1		
						-	1	
						-		
Tolerance:	0.1		3%	10%	10%	+ or - 10		

information: WATER VOLUMES-0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;

4 inch diameter well = 2470 ml/ft ( $vol_{evt} = \pi r^2 h$ )

Remarks:

Attachment 2

#### DATA USABILITY SUMMARY REPORT

# REMEDIAL INVESTIGATION FORMER BERNZOMATIC FACILITY MEDINA, NEW YORK NYSDEC SITE #C837018

**Analyses Performed by:** 

# TESTAMERICA LABORATORIES, INC. AMHERST, NY

**Prepared for:** 

IRWIN INDUSTRIAL TOOL COMPANY c/o NEWELL BRANDS, INC.

**Prepared by:** 

AECOM ONE JOHN JAMES AUDUBON PARKWAY SUITE 210 AMHERST, NEW YORK 14228

**JUNE 2022** 

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1.0	INTRODUCTION	.1
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5.0	NON-CONFORMANCES	.2
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7.0	SUMMARY	.4

# TABLES

(Following Text)

Table 1	Validated Soil Sample Results
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- Table 2
   Validated Groundwater Sample Results
- Table 3Validated Field QC Sample Results

## ATTACHMENTS

- Attachment A Validated Form 1's
- Attachment B Support Documentation

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#### **1.0 INTRODUCTION**

This Data Usability Summary Report (DUSR) has been prepared following the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation *DER-10, Technical Guidance for Site Investigation and Remediation, Appendix 2B - Guidance for Data Deliverables and the Development of Data Usability and Summary Reports*, May 2010. This DUSR discusses the data usability for: 12 soil samples, 1 soil field duplicate (FD), 1 soil matrix spike/matrix spike duplicate (MS/MSD) pair; 20 groundwater (GW) samples, 1 GW FD, 1 GW MS/MSD, 2 rinse blanks, and 4 trip blanks collected by AECOM personnel on April 27 thru May 10, 2022. The samples were collected in support of the Remedial Investigation at the Former Bernzomatic Facility (NYSDEC Site #C837018), located in Medina, New York.

#### 2.0 ANALYTICAL METHODOLOGIES/DATA VALIDATION PROCEDURES

The samples were sent to TestAmerica Laboratories, Inc. (Amherst, NY) for analysis, and were analyzed for the following parameters (not all samples were analyzed for all parameters):

- Volatile Organic Compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method SW8260C;
- Methane by USEPA Robert S. Kerr (RSK)-175;
- Metals/Mercury by USEPA Method 6010C, 7470A, and 7471B;
- Dissolved Iron by USEPA Method 6010C;
- Total Alkalinity by Standard Methods SM2320B; and
- Chloride/Nitrate/Sulfate by USEPA Method 300.0.

A limited data validation was performed in accordance with the guidelines in the following USEPA Region II documents:

- Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B & 8260C, SOP HW-24, Revision 4, October 2014;
- ICP-AES Data Validation, SOP HW-3a, Rev. 1, September 2016; and
- Mercury and Cyanide Data Validation, SOP HW-3c, Rev. 1, September 2016.

The limited validation included: a review of completeness of all required deliverables; holding times; a review of quality control (QC) results [blanks, instrument tunes, calibration standards, MS/MSD recoveries, and laboratory control sample (LCS) recoveries] to determine if the data are within the protocol-required limits and specifications; a determination that all samples were analyzed using established and agreed upon analytical protocols; an evaluation of the raw data to confirm the results provided in the data summary sheets; and a review of laboratory data qualifiers.

Qualifications applied to the data during the validation include 'J' (estimated concentration), 'UJ' [estimated quantitation limit (QL)], and 'U' (non-detect). Definitions of USEPA Region II data qualifiers are presented at the end of this text. The validated analytical results for all samples are presented in Tables 1 through 3. Copies of the validated laboratory results (i.e., Form 1's) are presented in Attachment A. Documentation supporting the qualification of data is presented in Attachment B. Only analytical deviations affecting data usability are discussed in this report.

#### **3.0 DATA DELIVERABLE COMPLETENESS**

Full deliverable data packages [i.e., NYSDEC Analytical Services Protocol (ASP) Category B (or equivalent)] were provided by the laboratory, which included all reporting forms and raw data necessary to fully evaluate and verify the reported analytical results.

#### 4.0 SAMPLE RECEIPT/PRESERVATION/HOLDING TIMES

All samples were received by the laboratory intact, properly preserved, and under proper chainof-custody (COC) with the following exceptions:

The volatile vials for several samples in SDG J197248 were not properly preserved (i.e., pH > 2). Since these samples were analyzed within the 7-day holding time for unpreserved samples, no qualification of the sample results is necessary.

The volatile vials for samples PDI-04 GW, PDI-05 GW, PDI-09 GW, PDI-10 GW, PDI-11 GW, and PDI-12 GW were not properly preserved (i.e., pH > 2). These samples were analyzed after the 7 day holding time for unpreserved samples but less than the holding time of 14 days. All volatile results in these samples have been qualified 'UJ'.

All samples were analyzed within the required holding times.

#### **5.0 NON-CONFORMANCES**

#### Matrix Spikes/Matrix Duplicates (MS/MD)

The metals MS/MSD performed on soil sample PDI-05 was below QC limits (i.e., <75%) for total iron (Fe). and zinc (Zn). The post-digestion spike was acceptable. The results for these metals in this sample have been qualified 'J'.

The metals MS/MSD performed on GW sample MW-22 was below QC limits (i.e., <75%) for total Fe. The post-digestion spike was acceptable. The results for total Fe in this sample has been qualified 'J'.

The alkalinity MS/MSD performed on sample MW-22 was below the QC limit (i.e., <60%). The sample was re-analyzed, outside of the holding time, and still showed percent recoveries (%Rs) below the QC limits. The initial result has been reported and the alkalinity qualified 'J'.

Support documentation (i.e., Form 5A and Form 5B) are presented in Attachment B.

#### Serial Dilutions

The serial dilution (SD) performed on soil sample PDI-05 exceeded the QC limit of 15% for Zn. The Zn was previously qualified 'J' due to the MS/MSD outlier.

Support documentation (i.e., Form 9) is provided in Attachment B.

#### **Method Blanks**

Total Fe was detected in the method blank at a concentration greater than the reporting limit (RL). The samples associated with this method blank were either non-detect or greater than 10x the value detected in the method blank. The 'B' qualifier applied by the lab has been removed.

Calcium, manganese, and dissolved Fe were detected in the method blanks at concentrations greater than the method detection limit (MDL) but less than the RL (i.e., J value). Since the associated samples were greater than the RL, the 'B' qualifier applied by the laboratory has been removed.

Zinc was detected in the method blank at a concentration greater than the MDL but less than the RL (i.e., J value). The result for Zn in sample MW-07 has been qualified 'U' at the RL.

Copper (Cu) was detected in the rinse blank at a concentration greater than the MDL but less than the RL (i.e., J value). The results for Cu in samples MW-07, MW-05R, MW-14, MW-21, FD-051022, MW-19R, and MW-17 were qualified 'U' at the RL. The results for Cu in samples MW-16 and MW-22 were slightly above the RL (less than 5x the RB result). The detected results for Cu in these samples were qualified 'U' at the detected value.

Support documentation (i.e. Form 3) are presented in Attachment B.

#### **Field Duplicates**

Matrix	Parent Sample ID	Field Duplicate ID
GW	MW-21	FD-051022
Soil	PDI-10 (3-4)	DUP_042822

Field duplicates were collected at the following sample locations:

The field duplicate relative percent differences (RPD) generally exhibited good analytical precision (e.g., for results >5x QL: <50% for solids and <20% for waters; for results <5x QL: absolute difference <2x QL). The results for zinc in soil samples PDI-10(3-4) and DUP 042822 were qualified 'J'.

#### 6.0 SAMPLE RESULTS AND REPORTING

All results and quantitation/detection limits were reported in accordance with method requirements and were adjusted for sample volume, percent solids, and dilution factors (where applicable).

Several samples were only analyzed at dilutions for VOCs due to high concentrations of target compounds. The quantitation limits for the non-detect compounds are the lowest achievable at the diluted level.

#### 7.0 SUMMARY

All sample analyses were found to be compliant with the method criteria, except where previously noted. Those results qualified 'J' and 'UJ' are considered conditionally usable. Those results qualified 'U' should be considered non-detect. All other sample results are usable as reported. AECOM does not recommend the recollection of any samples at this time.

	deese		
Prepared By:	Ann Marie Kropovitch, Chemist	Date:	6/6/22
Reviewed By:	George E. Kisluk, Senior Chemist	Date:	6/6/22

#### **DEFINITIONS OF USEPA REGION II DATA QUALIFIERS**

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J-– The result is an estimated quantity, but the result may be biased low.
- J+ The result is an estimated quantity, but the result may be biased high.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
- D The positive value is the result from a secondary dilution analysis.

Location ID		PDI-01	PDI-02	PDI-03	PDI-04	PDI-05
Sample ID		PDI-1_0405	PDI-2_0203	PDI-3_0203	PDI-4_0304	PDI-5_0405
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	2.0-3.0	2.0-3.0	3.0-4.0	4.0-5.0
Date Sampled		04/27/22	04/27/22	04/27/22	04/28/22	04/28/22
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/KG	4.3 U	4.0 U	4.8 U	4.2 U	3.9 U
1,1,2,2-Tetrachloroethane	UG/KG	4.3 U	4.0 U	4.8 U	4.2 U	3.9 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/KG	4.3 U	4.0 U	4.8 U	4.2 U	3.9 U
1,1,2-Trichloroethane	UG/KG	4.3 U	4.0 U	4.8 U	4.2 U	3.9 U
1,1-Dichloroethane	UG/KG	4.3 U	4.0 U	4.8 U	1.2 J	3.9 U
1,1-Dichloroethene	UG/KG	4.3 U	4.0 U	4.8 U	4.2 U	3.9 U
1,2,4-Trichlorobenzene	UG/KG	4.3 U	4.0 U	4.8 U	4.2 U	3.9 U
1,2-Dibromo-3-chloropropane	UG/KG	4.3 U	4.0 U	4.8 U	4.2 U	3.9 U
1,2-Dibromoethane (Ethylene dibromide)	UG/KG	4.3 U	4.0 U	4.8 U	4.2 U	3.9 U
1,2-Dichlorobenzene	UG/KG	4.3 U	4.0 U	4.8 U	4.2 U	3.9 U
1,2-Dichloroethane	UG/KG	4.3 U	4.0 U	4.8 U	4.2 U	3.9 U
1,2-Dichloroethene (cis)	UG/KG	4.3 U	0.68 J	1.2 J	12	26
1,2-Dichloroethene (trans)	UG/KG	4.3 U	4.0 U	4.8 U	0.68 J	1.3 J
1,2-Dichloropropane	UG/KG	4.3 U	4.0 U	4.8 U	4.2 U	3.9 U
1,3-Dichlorobenzene	UG/KG	4.3 U	4.0 U	4.8 U	4.2 U	3.9 U
1,3-Dichloropropene (cis)	UG/KG	4.3 U	4.0 U	4.8 U	4.2 U	3.9 U
1,3-Dichloropropene (trans)	UG/KG	4.3 U	4.0 U	4.8 U	4.2 U	3.9 U
1,4-Dichlorobenzene	UG/KG	4.3 U	4.0 U	4.8 U	4.2 U	3.9 U
2-Hexanone	UG/KG	21 U	20 U	24 U	21 U	19 U
4-Methyl-2-pentanone	UG/KG	21 U	20 U	24 U	21 U	19 U
Acetone	UG/KG	4.4 J	20 U	31	21 U	10 J
Benzene	UG/KG	4.3 U	4.0 U	4.8 U	4.2 U	3.9 U
Bromodichloromethane	UG/KG	4.3 U	4.0 U	4.8 U	4.2 U	3.9 U

Flags assigned during chemistry validation are shown.

Location ID		PDI-01	PDI-02	PDI-03	PDI-04	PDI-05
Sample ID		PDI-1_0405	PDI-2_0203	PDI-3_0203	PDI-4_0304	PDI-5_0405
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	2.0-3.0	2.0-3.0	3.0-4.0	4.0-5.0
Date Sampled		04/27/22	04/27/22	04/27/22	04/28/22	04/28/22
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/KG	4.3 U	4.0 U	4.8 U	4.2 U	3.9 U
Bromomethane	UG/KG	4.3 U	4.0 U	4.8 U	4.2 U	3.9 U
Carbon disulfide	UG/KG	4.3 U	4.0 U	4.8 U	4.2 U	3.9 U
Carbon tetrachloride	UG/KG	4.3 U	4.0 U	4.8 U	4.2 U	3.9 U
Chlorobenzene	UG/KG	4.3 U	4.0 U	4.8 U	4.2 U	3.9 U
Chloroethane	UG/KG	4.3 U	4.0 U	4.8 U	4.2 U	3.9 U
Chloroform	UG/KG	4.3 U	4.0 U	4.8 U	4.2 U	3.9 U
Chloromethane	UG/KG	4.3 U	4.0 U	4.8 U	4.2 U	3.9 U
Cyclohexane	UG/KG	4.3 U	4.0 U	4.8 U	4.2 U	3.9 U
Dibromochloromethane	UG/KG	4.3 U	4.0 U	4.8 U	4.2 U	3.9 U
Dichlorodifluoromethane	UG/KG	4.3 U	4.0 U	4.8 U	4.2 U	3.9 U
Ethylbenzene	UG/KG	4.3 U	4.0 U	4.8 U	4.2 U	3.9 U
Isopropylbenzene (Cumene)	UG/KG	4.3 U	4.0 U	4.8 U	4.2 U	3.9 U
Methyl acetate	UG/KG	21 U	20 U	24 U	21 U	6.3 J
Methyl ethyl ketone (2-Butanone)	UG/KG	21 U	20 U	24 U	21 U	19 U
Methyl tert-butyl ether	UG/KG	4.3 U	4.0 U	4.8 U	4.2 U	3.9 U
Methylcyclohexane	UG/KG	4.3 U	4.0 U	4.8 U	4.2 U	0.67 J
Methylene chloride	UG/KG	4.3 U	4.0 U	4.8 U	4.2 U	3.9 U
Styrene	UG/KG	4.3 U	4.0 U	4.8 U	4.2 U	3.9 U
Tetrachloroethene	UG/KG	4.3 U	4.0 U	4.8 U	4.2 U	3.9
Toluene	UG/KG	4.3 U	4.0 U	4.8 U	4.2 U	3.9 U
Trichloroethene	UG/KG	4.3 U	4.0 U	4.8 U	4.2 U	3.9 U
Trichlorofluoromethane	UG/KG	4.3 U	4.0 U	4.8 U	4.2 U	3.9 U

Flags assigned during chemistry validation are shown.

Location ID		PDI-01	PDI-02	PDI-03	PDI-04	PDI-05
Sample ID		PDI-1_0405	PDI-2_0203 Soil	PDI-3_0203	PDI-4_0304	PDI-5_0405
Matrix		Soil		Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	2.0-3.0	2.0-3.0	3.0-4.0	4.0-5.0
Date Sampled		04/27/22	04/27/22	04/27/22	04/28/22	04/28/22
Parameter	Units					
Volatile Organic Compounds						
Vinyl chloride	UG/KG	4.3 U	4.0 U	4.8 U	4.2 U	3.9 U
Xylene (total)	UG/KG	8.5 U	8.0 U	9.7 U	8.3 U	7.7 U
Metals						
Aluminum	MG/KG	8,810	9,690	4,250	8,780	6,530
Antimony	MG/KG	2.7 J	1.5 J	0.77 J	1.4 J	1.2 J
Arsenic	MG/KG	4.4	2.7	3.9	2.7	2.7
Barium	MG/KG	66.2	50.0	24.9	46.9	32.2
Beryllium	MG/KG	0.46	0.33	0.20 J	0.39	0.27
Cadmium	MG/KG	0.17 J	0.16 J	0.059 J	0.23 J	0.16 J
Calcium	MG/KG	33,100	14,900	2,160	16,600	24,300
Chromium	MG/KG	9.5	9.8	6.2	9.4	7.8
Cobalt	MG/KG	5.7	4.3	2.5	4.8	4.0
Copper	MG/KG	18.2	11.7	11.6	11.6	25.7
Iron	MG/KG	16,900	11,500	7,200	11,300	9,200
Lead	MG/KG	37.7	14.0	3.4	7.3	6.4
Magnesium	MG/KG	6,160	5,100	1,240	7,030	13,300
Manganese	MG/KG	553	361	207	654	387
Mercury	MG/KG	0.021 J	0.031	0.011 J	0.019 J	0.019 J
Nickel	MG/KG	10.3	8.3	5.8 J	10.3	8.3
Potassium	MG/KG	1,300	1,130	827	1,700	1,290
Selenium	MG/KG	2.0 J	1.2 J	0.51 J	0.95 J	0.73 J
Silver	MG/KG	0.72 U	0.72 U	0.73 U	0.73 U	0.67 U
Sodium	MG/KG	167 J	246	72.5 J	122 J	136 J

Flags assigned during chemistry validation are shown.

Made By: AMK 06/03/22 Checked By: <u>GEK 6/6/22</u>

**Detection Limits shown are PQL** 

Location ID		PDI-01	PDI-02	PDI-03	PDI-04	PDI-05
Sample ID		PDI-1_0405	PDI-2_0203	PDI-3_0203	PDI-4_0304	PDI-5_0405
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	2.0-3.0	2.0-3.0	3.0-4.0	4.0-5.0
Date Sampled		04/27/22	04/27/22	04/27/22	04/28/22	04/28/22
Parameter	Units					
Metals						
Thallium	MG/KG	7.2 U	7.2 U	7.3 U	7.3 U	6.7 U
Vanadium	MG/KG	17.7	18.2	8.8	15.3	12.9
Zinc	MG/KG	50.2	55.4	12.7	43.2	36.3 J

Flags assigned during chemistry validation are shown.

Made By: AMK 06/03/22 Checked By: \_\_\_\_\_

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Location ID		PDI-06	PDI-07	PDI-08	PDI-09	PDI-10
Sample ID		PDI-6_0304 Soil	PDI-7_0203 Soil	PDI-8_0405 Soil	PDI-9_0203	DUP_042822
Matrix					Soil	Soil
Depth Interval (ft)		3.0-4.0	2.0-3.0	4.0-5.0	2.0-3.0	3.0-4.0
Date Sampled		04/27/22	04/27/22	04/27/22	04/28/22	04/28/22
Parameter	Units					Field Duplicate (1-1)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/KG	4.3 U	4.5 U	0.80 J	3.7 U	4.3 U
1,1,2,2-Tetrachloroethane	UG/KG	4.3 U	4.5 U	3.9 U	3.7 U	4.3 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/KG	4.3 U	4.5 U	3.9 U	3.7 U	4.3 U
1,1,2-Trichloroethane	UG/KG	4.3 U	4.5 U	3.9 U	3.7 U	4.3 U
1,1-Dichloroethane	UG/KG	4.3 U	4.5 U	3.9 U	3.7 U	4.3 U
1,1-Dichloroethene	UG/KG	4.3 U	4.5 U	3.9 U	3.7 U	4.3 U
1,2,4-Trichlorobenzene	UG/KG	4.3 U	4.5 U	3.9 U	3.7 U	4.3 U
1,2-Dibromo-3-chloropropane	UG/KG	4.3 U	4.5 U	3.9 U	3.7 U	4.3 U
1,2-Dibromoethane (Ethylene dibromide)	UG/KG	4.3 U	4.5 U	3.9 U	3.7 U	4.3 U
1,2-Dichlorobenzene	UG/KG	4.3 U	4.5 U	3.9 U	3.7 U	4.3 U
1,2-Dichloroethane	UG/KG	4.3 U	4.5 U	3.9 U	3.7 U	4.3 U
1,2-Dichloroethene (cis)	UG/KG	4.3 U	4.5 U	1.8 J	43	23
1,2-Dichloroethene (trans)	UG/KG	4.3 U	4.5 U	3.9 U	1.4 J	0.85 J
1,2-Dichloropropane	UG/KG	4.3 U	4.5 U	3.9 U	3.7 U	4.3 U
1,3-Dichlorobenzene	UG/KG	4.3 U	4.5 U	3.9 U	3.7 U	4.3 U
1,3-Dichloropropene (cis)	UG/KG	4.3 U	4.5 U	3.9 U	3.7 U	4.3 U
1,3-Dichloropropene (trans)	UG/KG	4.3 U	4.5 U	3.9 U	3.7 U	4.3 U
1,4-Dichlorobenzene	UG/KG	4.3 U	4.5 U	3.9 U	3.7 U	4.3 U
2-Hexanone	UG/KG	21 U	22 U	19 U	19 U	22 U
4-Methyl-2-pentanone	UG/KG	21 U	22 U	19 U	19 U	22 U
Acetone	UG/KG	29	22 U	3.8 J	13 J	14 J
Benzene	UG/KG	4.3 U	4.5 U	3.9 U	3.7 U	4.3 U
Bromodichloromethane	UG/KG	4.3 U	4.5 U	3.9 U	3.7 U	4.3 U

Flags assigned during chemistry validation are shown.

Location ID		PDI-06	PDI-07	PDI-08	PDI-09	PDI-10
Sample ID		PDI-6_0304	PDI-7_0203	PDI-8_0405	PDI-9_0203	DUP_042822
Matrix Depth Interval (ft)		Soil 3.0-4.0	Soil 2.0-3.0	Soil 4.0-5.0	Soil 2.0-3.0	Soil 3.0-4.0
Parameter	Units					Field Duplicate (1-1)
Volatile Organic Compounds						
Bromoform	UG/KG	4.3 U	4.5 U	3.9 U	3.7 U	4.3 U
Bromomethane	UG/KG	4.3 U	4.5 U	3.9 U	3.7 U	4.3 U
Carbon disulfide	UG/KG	4.3 U	4.5 U	3.9 U	3.7 U	4.3 U
Carbon tetrachloride	UG/KG	4.3 U	4.5 U	3.9 U	3.7 U	4.3 U
Chlorobenzene	UG/KG	4.3 U	4.5 U	3.9 U	3.7 U	4.3 U
Chloroethane	UG/KG	4.3 U	4.5 U	3.9 U	3.7 U	4.3 U
Chloroform	UG/KG	4.3 U	4.5 U	3.9 U	3.7 U	4.3 U
Chloromethane	UG/KG	4.3 U	4.5 U	3.9 U	3.7 U	4.3 U
Cyclohexane	UG/KG	4.3 U	4.5 U	3.9 U	3.7 U	4.3 U
Dibromochloromethane	UG/KG	4.3 U	4.5 U	3.9 U	3.7 U	4.3 U
Dichlorodifluoromethane	UG/KG	4.3 U	4.5 U	3.9 U	3.7 U	4.3 U
Ethylbenzene	UG/KG	4.3 U	4.5 U	3.9 U	3.7 U	4.3 U
Isopropylbenzene (Cumene)	UG/KG	4.3 U	4.5 U	3.9 U	3.7 U	4.3 U
Methyl acetate	UG/KG	21 U	22 U	19 U	19 U	22 U
Methyl ethyl ketone (2-Butanone)	UG/KG	4.9 J	22 U	19 U	19 U	22 U
Methyl tert-butyl ether	UG/KG	4.3 U	4.5 U	3.9 U	3.7 U	4.3 U
Methylcyclohexane	UG/KG	4.3 U	4.5 U	3.9 U	3.7 U	4.3 U
Methylene chloride	UG/KG	4.3 U	4.5 U	3.9 U	3.7 U	4.3 U
Styrene	UG/KG	4.3 U	4.5 U	3.9 U	3.7 U	4.3 U
Tetrachloroethene	UG/KG	4.3 U	4.5 U	0.93 J	1.2 J	1.6 J
Toluene	UG/KG	4.3 U	4.5 U	3.9 U	3.7 U	4.3 U
Trichloroethene	UG/KG	4.3 U	4.5 U	3.9 U	3.7 U	4.3 U
Trichlorofluoromethane	UG/KG	4.3 U	4.5 U	3.9 U	3.7 U	4.3 U

Flags assigned during chemistry validation are shown.

Location ID		PDI-06	PDI-07	PDI-08	PDI-09	PDI-10
Sample ID		PDI-6_0304	PDI-7_0203 Soil	PDI-8_0405 Soil	PDI-9_0203	DUP_042822
Matrix		Soil			Soil	Soil
Depth Interval (ft)		3.0-4.0	2.0-3.0	4.0-5.0	2.0-3.0	3.0-4.0
Date Sampled		04/27/22	04/27/22	04/27/22	04/28/22	04/28/22
Parameter	Units					Field Duplicate (1-1)
Volatile Organic Compounds						
Vinyl chloride	UG/KG	4.3 U	4.5 U	3.9 U	3.7 U	4.3 U
Xylene (total)	UG/KG	8.6 U	8.9 U	7.7 U	7.5 U	8.7 U
Metals						
Aluminum	MG/KG	11,900	10,600	8,360	5,740	7,080
Antimony	MG/KG	2.6 J	1.4 J	1.2 J	1.1 J	1.4 J
Arsenic	MG/KG	3.6	2.7	2.7	2.0 J	2.9
Barium	MG/KG	59.6	34.4	56.4	36.0	39.8
Beryllium	MG/KG	0.49	0.26	0.33	0.26	0.28
Cadmium	MG/KG	0.14 J	0.15 J	0.18 J	0.11 J	0.25
Calcium	MG/KG	22,400	18,100	5,980	22,100	32,400
Chromium	MG/KG	13.6	9.1	8.7	7.5	8.5
Cobalt	MG/KG	6.1	3.0	5.6	4.2	4.4
Copper	MG/KG	14.2	10	25.8	10.3	12.9
Iron	MG/KG	16,800	9,340	9,440	9,030	10,100
Lead	MG/KG	10.8	9.8	12.7	4.2	5.8
Magnesium	MG/KG	6,360	3,510	1,960	4,980	5,530
Manganese	MG/KG	310	236	481	427	366
Mercury	MG/KG	0.020 J	0.039	0.025	0.012 J	0.013 J
Nickel	MG/KG	13.7	6.4	9.8	9.1	9.1
Potassium	MG/KG	2,220	1,060	1,370	1,300	1,150
Selenium	MG/KG	1.4 J	1.0 J	0.76 J	0.62 J	0.91 J
Silver	MG/KG	0.73 U	0.75 U	0.71 U	0.66 U	0.68 U
Sodium	MG/KG	193	241	122 J	146 J	135 J

Flags assigned during chemistry validation are shown.

Location ID		PDI-06	PDI-07	PDI-08	PDI-09	PDI-10
Sample ID		PDI-6_0304	PDI-7_0203	PDI-8_0405	PDI-9_0203	DUP_042822
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		3.0-4.0	2.0-3.0	4.0-5.0	2.0-3.0	3.0-4.0
Date Sampled		04/27/22	04/27/22	04/27/22	04/28/22	04/28/22
Parameter	Units					Field Duplicate (1-1)
Metals						
Thallium	MG/KG	7.3 U	7.5 U	7.1 U	6.6 U	6.8 U
Vanadium	MG/KG	23.9	15.7	13.8	13.2	15.0
Zinc	MG/KG	37.9	39.2	37.3	22.1	79.3 J

Flags assigned during chemistry validation are shown.

Made By: AMK 06/03/22 Checked By: <u>GEK 6/6/</u>22

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Location ID	PDI-10	PDI-11	PDI-12		
Sample ID		PDI-10_0304	PDI-11_0304	PDI-12_0405	
Matrix		Soil	Soil	Soil	
Depth Interval (ft)	3.0-4.0	3.0-4.0	4.0-5.0		
Date Sampled		04/28/22	04/28/22	04/28/22	
Parameter	Units				
Volatile Organic Compounds					
1,1,1-Trichloroethane	UG/KG	4.0 U	4.3 U	4.3 U	
1,1,2,2-Tetrachloroethane	UG/KG	4.0 U	4.3 U	4.3 U	
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/KG	4.0 U	4.3 U	4.3 U	
1,1,2-Trichloroethane	UG/KG	4.0 U	4.3 U	4.3 U	
1,1-Dichloroethane	UG/KG	4.0 U	4.3 U	4.3 U	
1,1-Dichloroethene	UG/KG	4.0 U	4.3 U	4.3 U	
1,2,4-Trichlorobenzene	UG/KG	4.0 U	4.3 U	4.3 U	
1,2-Dibromo-3-chloropropane	UG/KG	4.0 U	4.3 U	4.3 U	
1,2-Dibromoethane (Ethylene dibromide)	UG/KG	4.0 U	4.3 U	4.3 U	
1,2-Dichlorobenzene	UG/KG	4.0 U	4.3 U	4.3 U	
1,2-Dichloroethane	UG/KG	4.0 U	4.3 U	4.3 U	
1,2-Dichloroethene (cis)	UG/KG	20	1.7 J	4.3 U	
1,2-Dichloroethene (trans)	UG/KG	0.61 J	4.3 U	4.3 U	
1,2-Dichloropropane	UG/KG	4.0 U	4.3 U	4.3 U	
1,3-Dichlorobenzene	UG/KG	4.0 U	4.3 U	4.3 U	
1,3-Dichloropropene (cis)	UG/KG	4.0 U	4.3 U	4.3 U	
1,3-Dichloropropene (trans)	UG/KG	4.0 U	4.3 U	4.3 U	
1,4-Dichlorobenzene	UG/KG	4.0 U	4.3 U	4.3 U	
2-Hexanone	UG/KG	20 U	21 U	22 U	
4-Methyl-2-pentanone	UG/KG	20 U	21 U	22 U	
Acetone	UG/KG	12 J	21 U	48	
Benzene	UG/KG	4.0 U	4.3 U	4.3 U	
Bromodichloromethane	UG/KG	4.0 U	4.3 U	4.3 U	

Flags assigned during chemistry validation are shown.

Location ID		PDI-10	PDI-11	PDI-12	
Sample ID		PDI-10_0304	PDI-11_0304	PDI-12_0405	
Matrix		Soil	Soil	Soil	
Depth Interval (ft)		3.0-4.0	3.0-4.0	4.0-5.0	
Date Sampled		04/28/22	04/28/22	04/28/22	
Parameter	Units				
Volatile Organic Compounds					
Bromoform	UG/KG	4.0 U	4.3 U	4.3 U	
Bromomethane	UG/KG	4.0 U	4.3 U	4.3 U	
Carbon disulfide	UG/KG	4.0 U	4.3 U	4.3 U	
Carbon tetrachloride	UG/KG	4.0 U	4.3 U	4.3 U	
Chlorobenzene	UG/KG	4.0 U	4.3 U	4.3 U	
Chloroethane	UG/KG	4.0 U	4.3 U	4.3 U	
Chloroform	UG/KG	4.0 U	4.3 U	4.3 U	
Chloromethane	UG/KG	4.0 U	4.3 U	4.3 U	
Cyclohexane	UG/KG	4.0 U	4.3 U	4.3 U	
Dibromochloromethane	UG/KG	4.0 U	4.3 U	4.3 U	
Dichlorodifluoromethane	UG/KG	4.0 U	4.3 U	4.3 U	
Ethylbenzene	UG/KG	4.0 U	4.3 U	4.3 U	
Isopropylbenzene (Cumene)	UG/KG	4.0 U	4.3 U	4.3 U	
Methyl acetate	UG/KG	20 U	21 U	22 U	
Methyl ethyl ketone (2-Butanone)	UG/KG	20 U	21 U	3.8 J	
Methyl tert-butyl ether	UG/KG	4.0 U	4.3 U	4.3 U	
Methylcyclohexane	UG/KG	4.0 U	4.3 U	4.3 U	
Methylene chloride	UG/KG	4.0 U	4.3 U	4.3 U	
Styrene	UG/KG	4.0 U	4.3 U	4.3 U	
Tetrachloroethene	UG/KG	2.3 J	4.3 U	4.3 U	
Toluene	UG/KG	4.0 U	4.3 U	4.3 U	
Trichloroethene	UG/KG	4.0 U	4.3 U	4.3 U	
Trichlorofluoromethane	UG/KG	4.0 U	4.3 U	4.3 U	

Flags assigned during chemistry validation are shown.

Location ID		PDI-10	PDI-11	PDI-12	
Sample ID		PDI-10_0304	PDI-11_0304	PDI-12_0405	
Matrix		Soil	Soil	Soil	
Depth Interval (ft)	3.0-4.0	3.0-4.0	4.0-5.0		
Date Sampled		04/28/22	04/28/22	04/28/22	
Parameter	Units				
Volatile Organic Compounds					
Vinyl chloride	UG/KG	4.0 U	4.3 U	4.3 U	
Xylene (total)	UG/KG	7.9 U	8.6 U	8.6 U	
Metals					
Aluminum	MG/KG	5,700	6,790	14,300	
Antimony	MG/KG	1.3 J	1.8 J	2.4 J	
Arsenic	MG/KG	2.5	2.5	3.3	
Barium	MG/KG	34.5	42.2	57.0	
Beryllium	MG/KG	0.24	0.32	0.67	
Cadmium	MG/KG	0.12 J	0.13 J	0.076 J	
Calcium	MG/KG	24,600	31,000	2,690	
Chromium	MG/KG	7.0	9.2	14.8	
Cobalt	MG/KG	3.8	4.6	7.4	
Copper	MG/KG	10.6	13.7	15.7	
Iron	MG/KG	9,400	11,300	18,700	
Lead	MG/KG	4.9	5.6	9.0	
Magnesium	MG/KG	7,220	7,940	2,440	
Manganese	MG/KG	372	317	373	
Mercury	MG/KG	0.023	0.012 J	0.025	
Nickel	MG/KG	7.6	9.5	10.5	
Potassium	MG/KG	1,030	1,470	1,520	
Selenium	MG/KG	1.0 J	1.1 J	1.7 J	
Silver	MG/KG	0.65 U	0.67 U	0.68 U	
Sodium	MG/KG	130 J	153 J	95.7 J	

Flags assigned during chemistry validation are shown.

Location ID		PDI-10	PDI-11	PDI-12
Sample ID		PDI-10_0304	PDI-11_0304	PDI-12_0405
Matrix		Soil	Soil	Soil
Depth Interval (ft)		3.0-4.0	3.0-4.0	4.0-5.0
Date Sampled		04/28/22	04/28/22	04/28/22
Parameter	Units			
Metals				
Thallium	MG/KG	6.5 U	6.7 U	6.8 U
Vanadium	MG/KG	13.3	15.9	30.3
Zinc	MG/KG	23.0 J	25.2	27.9

Flags assigned during chemistry validation are shown.

Location ID		MW-05R	MW-07	MW-14	MW-16	MW-17
Sample ID		MW-05R	MW-07	MW-14	MW-16	MW-17
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		05/09/22	05/09/22	05/09/22	05/10/22	05/10/22
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.2	1.0 U	1.0 U	2.0 U	2.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,1-Dichloroethane	UG/L	22	0.83 J	1.0 U	2.0 U	2.0 U
1,1-Dichloroethene	UG/L	0.29 J	1.0 U	1.0 U	2.0 U	2.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,2-Dichloroethene (cis)	UG/L	210 D	2.8	1.0 U	2.0 U	2.0 U
1,2-Dichloroethene (trans)	UG/L	1.7	1.0 U	1.0 U	2.0 U	2.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	10 U	10 U
4-Methyl-2-pentanone	UG/L	5.0 U	5.0 U	5.0 U	10 U	10 U
Acetone	UG/L	10 U	10 U	10 U	20 U	20 U
Benzene	UG/L	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U

Flags assigned during chemistry validation are shown.

Location ID		MW-05R	MW-07	MW-14	MW-16	MW-17
Sample ID		MW-05R	MW-07	MW-14	MW-16	MW-17
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		05/09/22	05/09/22	05/09/22	05/10/22	05/10/22
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Bromomethane	UG/L	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Carbon disulfide	UG/L	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Carbon tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Chloroethane	UG/L	0.51 J	1.0 U	1.0 U	2.0 U	2.0 U
Chloroform	UG/L	1.5	1.0 U	1.0 U	2.0 U	2.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Cyclohexane	UG/L	0.24 J	1.0 U	1.0 U	2.0 U	2.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Methyl acetate	UG/L	2.5 U	2.5 U	2.5 U	5.0 U	5.0 U
Methyl ethyl ketone (2-Butanone)	UG/L	10 U	10 U	10 U	20 U	20 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Methylcyclohexane	UG/L	0.21 J	1.0 U	1.0 U	2.0 U	2.0 U
Methylene chloride	UG/L	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Tetrachloroethene	UG/L	5.7	4.2	1.0 U	2.0 U	2.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Trichloroethene	UG/L	31	6.1	1.0 U	2.0 U	2.0 U
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U

Flags assigned during chemistry validation are shown.

Location ID		MW-05R	MW-07	MW-14	MW-16	MW-17
Sample ID		MW-05R	MW-07	MW-14	MW-16	MW-17
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		05/09/22	05/09/22	05/09/22	05/10/22	05/10/22
Parameter	Units					
Volatile Organic Compounds						
Vinyl chloride	UG/L	2.4	1.0 U	1.0 U	2.0 U	2.0 U
Xylene (total)	UG/L	2.0 U	2.0 U	2.0 U	4.0 U	4.0 U
Metals						
Aluminum	MG/L	0.10 J	0.11 J	0.20 U	0.20 U	0.085 J
Antimony	MG/L	0.020 U				
Arsenic	MG/L	0.015 U	0.015 U	0.015 U	0.022	0.0093 J
Barium	MG/L	0.16	0.19	0.092	1.3	0.20
Beryllium	MG/L	0.0020 U				
Cadmium	MG/L	0.0020 U				
Calcium	MG/L	105	118	153	230	210
Chromium	MG/L	0.0040 U				
Cobalt	MG/L	0.0040 U	0.0043	0.0013 J	0.14	0.0012 J
Copper	MG/L	0.010 U	0.010 U	0.010 U	0.020 U	0.010 U
Iron	MG/L	0.16	0.82	1.7	30.1	20.8
Lead	MG/L	0.010 U	0.010 U	0.0033 J	0.0054 J	0.0042 J
Magnesium	MG/L	13.8	14.4	19.8	40.6	38.2
Manganese	MG/L	1.0	2.1	0.67	19.6	2.5
Mercury	MG/L	0.00020 U				
Nickel	MG/L	0.0019 J	0.0015 J	0.0028 J	0.015	0.010 U
Potassium	MG/L	5.4	3.8	7.5	7.8	9.3
Selenium	MG/L	0.025 U				
Silver	MG/L	0.0060 U				
Sodium	MG/L	30.9	18.9	83.6	406	122

Flags assigned during chemistry validation are shown.

Location ID		MW-05R	MW-07	MW-14	MW-16	MW-17
Sample ID		MW-05R	MW-07	MW-14	MW-16	MW-17
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		05/09/22	05/09/22	05/09/22	05/10/22	05/10/22
Parameter	Units					
Metals						
Thallium	MG/L	0.020 U				
Vanadium	MG/L	0.0050 U	0.0050 U	0.0050 U	0.0015 J	0.0017 J
Zinc	MG/L	0.010 U	0.010 U	0.13	0.040	0.0031 J
Dissolved Metals						
Iron	MG/L	0.033 J	0.95	NA	NA	NA
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	229	347	NA	NA	NA
Chloride	MG/L	65.2	28.6	NA	NA	NA
Nitrate-Nitrogen	MG/L	0.83	0.053	NA	NA	NA
Sulfate (as SO4)	MG/L	86.5	24.4	NA	NA	NA
Dissolved Gases						
Methane	UG/L	73	21	NA	NA	NA

Flags assigned during chemistry validation are shown.

Location ID		MW-19R	MW-21	MW-21	MW-22	PDI-01
Sample ID Matrix		MW-19R	FD-051022	MW-21 Groundwater	MW-22 Groundwater	PDI-1_GW Groundwater
		Groundwater	Groundwater			
Depth Interval (ft)		-	-	-	-	-
Date Sampled		05/10/22	05/10/22	05/10/22	05/09/22	04/27/22
Parameter	Units		Field Duplicate (1-1)			
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
1,1-Dichloroethane	UG/L	2.0 U	13	12	2.3	1.0 U
1,1-Dichloroethene	UG/L	2.0 U	1.3 J	1.3 J	2.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
1,2-Dichloroethane	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	2.0 U	65	60	130	1.0 U
1,2-Dichloroethene (trans)	UG/L	2.0 U	2.0 U	2.0 U	1.8 J	1.0 U
1,2-Dichloropropane	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
2-Hexanone	UG/L	10 U	10 U	10 U	10 U	5.0 U
4-Methyl-2-pentanone	UG/L	10 U	10 U	10 U	10 U	5.0 U
Acetone	UG/L	8.9 J	20 U	20 U	20 U	10 U
Benzene	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
Bromodichloromethane	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U

Flags assigned during chemistry validation are shown.

Location ID		MW-19R	MW-21	MW-21	MW-22	PDI-01
Sample ID		MW-19R	FD-051022	MW-21	MW-22	PDI-1_GW
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		05/10/22	05/10/22	05/10/22	05/09/22	04/27/22
Parameter	Units		Field Duplicate (1-1)			
Volatile Organic Compounds						
Bromoform	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
Bromomethane	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
Carbon disulfide	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	0.34 J
Carbon tetrachloride	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
Chlorobenzene	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
Chloroethane	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
Chloroform	UG/L	0.68 J	2.0 U	2.0 U	1.2 J	1.0 U
Chloromethane	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
Cyclohexane	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
Dibromochloromethane	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
Dichlorodifluoromethane	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
Ethylbenzene	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
Methyl acetate	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	2.5 U
Methyl ethyl ketone (2-Butanone)	UG/L	20 U	20 U	20 U	20 U	10 U
Methyl tert-butyl ether	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
Methylcyclohexane	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	0.24 J
Methylene chloride	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
Styrene	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
Tetrachloroethene	UG/L	2.0 U	2.0 U	2.0 U	0.75 J	1.0 U
Toluene	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
Trichloroethene	UG/L	2.0 U	13	12	1.5 J	1.0 U
Trichlorofluoromethane	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U

Flags assigned during chemistry validation are shown.

Location ID		MW-19R	MW-21	MW-21	MW-22	PDI-01
Sample ID		MW-19R	FD-051022	MW-21	MW-22	PDI-1_GW
Matrix Depth Interval (ft)		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater -
		-	-	-	-	
Date Sampled		05/10/22	05/10/22	05/10/22	05/09/22	04/27/22
Parameter	Units		Field Duplicate (1-1)			
Volatile Organic Compounds						
Vinyl chloride	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
Xylene (total)	UG/L	4.0 U	4.0 U	4.0 U	4.0 U	2.0 U
Metals						
Aluminum	MG/L	1.4	0.072 J	0.12 J	8.9	NA
Antimony	MG/L	0.020 U	0.020 U	0.020 U	0.020 U	NA
Arsenic	MG/L	0.015 U	0.015 U	0.015 U	0.0062 J	NA
Barium	MG/L	0.11	1.3	1.3	0.57	NA
Beryllium	MG/L	0.0020 U	0.0020 U	0.0020 U	0.00034 J	NA
Cadmium	MG/L	0.0020 U	0.00057 J	0.00061 J	0.0020 U	NA
Calcium	MG/L	111	395	402	139	NA
Chromium	MG/L	0.0015 J	0.0013 J	0.0013 J	0.0096	NA
Cobalt	MG/L	0.0019 J	0.0034 J	0.0035 J	0.0072	NA
Copper	MG/L	0.010 U	0.010 U	0.010 U	0.036 U	NA
Iron	MG/L	1.5	0.21	0.22	11.4 J	NA
Lead	MG/L	0.010 U	0.010 U	0.010 U	0.0090 J	NA
Magnesium	MG/L	19.4	66.7	67.8	34.5	NA
Manganese	MG/L	5.5	4.7	4.8	2.6	NA
Mercury	MG/L	0.00020 U	0.00020 U	0.00020 U	0.00020 U	NA
Nickel	MG/L	0.0032 J	0.0031 J	0.0033 J	0.015	NA
Potassium	MG/L	7.2	5.6	5.7	39.5	NA
Selenium	MG/L	0.025 U	0.025 U	0.025 U	0.025 U	NA
Silver	MG/L	0.0060 U	0.0060 U	0.0060 U	0.0060 U	NA
Sodium	MG/L	157	1,190	1,200	170	NA

Flags assigned during chemistry validation are shown.

Location ID		MW-19R	MW-21	MW-21	MW-22	PDI-01
Sample ID Matrix		MW-19R	FD-051022	MW-21 Groundwater	MW-22	PDI-1_GW Groundwater
		Groundwater	Groundwater		Groundwater	
Depth Interval (ft)		-	-	-	-	-
Date Sampled		05/10/22	05/10/22	05/10/22	05/09/22	04/27/22
Parameter	Units		Field Duplicate (1-1)			
Metals						
Thallium	MG/L	0.020 U	0.020 U	0.020 U	0.020 U	NA
Vanadium	MG/L	0.0025 J	0.0050 U	0.0050 U	0.015	NA
Zinc	MG/L	0.0061 J	0.0029 J	0.0040 J	0.034	NA
Dissolved Metals						
Iron	MG/L	NA	0.16	0.16	2.4	NA
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	NA	186	188	637 J	NA
Chloride	MG/L	NA	2,830	2,900	133	NA
Nitrate-Nitrogen	MG/L	NA	0.050 U	0.050 U	0.050 U	NA
Sulfate (as SO4)	MG/L	NA	76.4	77.3	94.8	NA
Dissolved Gases						
Methane	UG/L	NA	240	280	230	NA

Flags assigned during chemistry validation are shown.

Location ID		PDI-02	PDI-03	PDI-04	PDI-05	PDI-06
Sample ID		PDI-2_GW	PDI-3_GW	PDI-4_GW	PDI-5_GW	PDI-6_GW
Matrix Depth Interval (ft)		Groundwater	Groundwater	Groundwater	Groundwater -	Groundwater -
		-	-	-		
Date Sampled		04/27/22	04/27/22	04/28/22	04/28/22	04/27/22
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	4.7 J	410 J	1.0 UJ	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	8.0 U	13 J	1.0 UJ	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	300	1,400 J	1.0 UJ	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	8.0 U	37 J	1.0 UJ	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
2-Hexanone	UG/L	5.0 U	40 U	100 UJ	5.0 UJ	5.0 U
4-Methyl-2-pentanone	UG/L	5.0 U	40 U	100 UJ	5.0 UJ	5.0 U
Acetone	UG/L	6.4 J	80 U	73 J	15 J	3.4 J
Benzene	UG/L	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
Bromodichloromethane	UG/L	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U

Flags assigned during chemistry validation are shown.

Location ID		PDI-02	PDI-03	PDI-04	PDI-05	PDI-06
Sample ID		PDI-2_GW	PDI-3_GW	PDI-4_GW	PDI-5_GW	PDI-6_GW
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		04/27/22	04/27/22	04/28/22	04/28/22	04/27/22
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
Bromomethane	UG/L	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
Carbon disulfide	UG/L	1.0 U	8.0 U	20 UJ	0.48 J	1.0 U
Carbon tetrachloride	UG/L	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
Chlorobenzene	UG/L	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
Chloroethane	UG/L	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
Chloroform	UG/L	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
Chloromethane	UG/L	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
Cyclohexane	UG/L	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
Dibromochloromethane	UG/L	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
Ethylbenzene	UG/L	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
Methyl acetate	UG/L	2.5 U	20 U	50 UJ	2.5 UJ	2.5 U
Methyl ethyl ketone (2-Butanone)	UG/L	10 U	80 U	200 UJ	2.4 J	10 U
Methyl tert-butyl ether	UG/L	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
Methylcyclohexane	UG/L	1.0 U	8.0 U	20 UJ	0.23 J	1.0 U
Methylene chloride	UG/L	0.53 J	8.0 U	20 UJ	1.0 UJ	1.0 U
Styrene	UG/L	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
Tetrachloroethene	UG/L	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
Toluene	UG/L	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U
Trichloroethene	UG/L	1.0 U	8.0 U	11 J	1.0 UJ	1.0 U
Trichlorofluoromethane	UG/L	1.0 U	8.0 U	20 UJ	1.0 UJ	1.0 U

Flags assigned during chemistry validation are shown.

Location ID		PDI-02	PDI-03	PDI-04	PDI-05	PDI-06
Sample ID Matrix		PDI-2_GW	PDI-3_GW	PDI-4_GW	PDI-5_GW	PDI-6_GW
		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		04/27/22	04/27/22	04/28/22	04/28/22	04/27/22
Parameter	Units					
Volatile Organic Compounds						
Vinyl chloride	UG/L	1.0 U	8.0 U	250 J	1.0 UJ	1.0 U
Xylene (total)	UG/L	2.0 U	16 U	40 UJ	2.0 UJ	2.0 U
Metals						
Aluminum	MG/L	NA	NA	NA	NA	NA
Antimony	MG/L	NA	NA	NA	NA	NA
Arsenic	MG/L	NA	NA	NA	NA	NA
Barium	MG/L	NA	NA	NA	NA	NA
Beryllium	MG/L	NA	NA	NA	NA	NA
Cadmium	MG/L	NA	NA	NA	NA	NA
Calcium	MG/L	NA	NA	NA	NA	NA
Chromium	MG/L	NA	NA	NA	NA	NA
Cobalt	MG/L	NA	NA	NA	NA	NA
Copper	MG/L	NA	NA	NA	NA	NA
Iron	MG/L	NA	NA	NA	NA	NA
Lead	MG/L	NA	NA	NA	NA	NA
Magnesium	MG/L	NA	NA	NA	NA	NA
Manganese	MG/L	NA	NA	NA	NA	NA
Mercury	MG/L	NA	NA	NA	NA	NA
Nickel	MG/L	NA	NA	NA	NA	NA
Potassium	MG/L	NA	NA	NA	NA	NA
Selenium	MG/L	NA	NA	NA	NA	NA
Silver	MG/L	NA	NA	NA	NA	NA
Sodium	MG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Location ID		PDI-02	PDI-03	PDI-04	PDI-05	PDI-06
Sample ID Matrix		PDI-2_GW	PDI-3_GW	PDI-4_GW	PDI-5_GW	PDI-6_GW
		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		04/27/22	04/27/22	04/28/22	04/28/22	04/27/22
Parameter	Units					
Metals						
Thallium	MG/L	NA	NA	NA	NA	NA
Vanadium	MG/L	NA	NA	NA	NA	NA
Zinc	MG/L	NA	NA	NA	NA	NA
Dissolved Metals						
Iron	MG/L	NA	NA	NA	NA	NA
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Chloride	MG/L	NA	NA	NA	NA	NA
Nitrate-Nitrogen	MG/L	NA	NA	NA	NA	NA
Sulfate (as SO4)	MG/L	NA	NA	NA	NA	NA
Dissolved Gases						
Methane	UG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Location ID		PDI-07	PDI-08	PDI-09	PDI-10	PDI-11
Sample ID Matrix		PDI-7_GW	PDI-8_GW Groundwater	PDI-9_GW Groundwater	PDI-10_GW Groundwater	PDI-11_GW Groundwater
		Groundwater				
Depth Interval (ft)		-	-	-	-	-
Date Sampled		04/27/22	04/27/22	04/28/22	04/28/22	04/28/22
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
1,1-Dichloroethane	UG/L	1.0 U	0.83 J	8.3 J	15 J	53 J
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.2 J	5.0 UJ	5.0 UJ
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
1,2-Dichloroethene (cis)	UG/L	1.0 U	18	87 J	140 J	300 J
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
2-Hexanone	UG/L	5.0 U	5.0 U	10 UJ	25 UJ	25 UJ
4-Methyl-2-pentanone	UG/L	5.0 U	5.0 U	10 UJ	25 UJ	25 UJ
Acetone	UG/L	4.2 J	3.4 J	11 J	50 UJ	73 J
Benzene	UG/L	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
Bromodichloromethane	UG/L	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ

Flags assigned during chemistry validation are shown.

Location ID		PDI-07	PDI-08	PDI-09	PDI-10	PDI-11
Sample ID Matrix		PDI-7_GW	PDI-8_GW	PDI-9_GW	PDI-10_GW	PDI-11_GW
		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		04/27/22	04/27/22	04/28/22	04/28/22	04/28/22
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
Bromomethane	UG/L	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
Carbon disulfide	UG/L	0.68 J	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
Carbon tetrachloride	UG/L	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
Chlorobenzene	UG/L	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
Chloroethane	UG/L	1.0 U	1.0 U	2.0 UJ	5.0 UJ	2.1 J
Chloroform	UG/L	0.67 J	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
Chloromethane	UG/L	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
Cyclohexane	UG/L	1.0 U	0.23 J	2.0 UJ	5.0 UJ	5.0 UJ
Dibromochloromethane	UG/L	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
Ethylbenzene	UG/L	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
Methyl acetate	UG/L	2.5 U	2.5 U	5.0 UJ	13 UJ	13 UJ
Methyl ethyl ketone (2-Butanone)	UG/L	10 U	10 U	20 UJ	50 UJ	50 UJ
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
Methylcyclohexane	UG/L	1.0 U	0.34 J	2.0 UJ	5.0 UJ	5.0 UJ
Methylene chloride	UG/L	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
Styrene	UG/L	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
Tetrachloroethene	UG/L	1.0 U	1.5	9.0 J	5.0 UJ	6.3 J
Toluene	UG/L	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ
Trichloroethene	UG/L	1.0 U	2.2	11 J	13 J	52 J
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	2.0 UJ	5.0 UJ	5.0 UJ

Flags assigned during chemistry validation are shown.

Location ID		PDI-07	PDI-08	PDI-09	PDI-10	PDI-11
Sample ID Matrix		PDI-7_GW	PDI-8_GW	PDI-9_GW	PDI-10_GW	PDI-11_GW
		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		04/27/22	04/27/22	04/28/22	04/28/22	04/28/22
Parameter	Units					
Volatile Organic Compounds						
Vinyl chloride	UG/L	1.0 U	1.0 U	7.1 J	23 J	7.6 J
Xylene (total)	UG/L	2.0 U	2.0 U	4.0 UJ	10 UJ	10 UJ
Metals						
Aluminum	MG/L	NA	NA	NA	NA	NA
Antimony	MG/L	NA	NA	NA	NA	NA
Arsenic	MG/L	NA	NA	NA	NA	NA
Barium	MG/L	NA	NA	NA	NA	NA
Beryllium	MG/L	NA	NA	NA	NA	NA
Cadmium	MG/L	NA	NA	NA	NA	NA
Calcium	MG/L	NA	NA	NA	NA	NA
Chromium	MG/L	NA	NA	NA	NA	NA
Cobalt	MG/L	NA	NA	NA	NA	NA
Copper	MG/L	NA	NA	NA	NA	NA
Iron	MG/L	NA	NA	NA	NA	NA
Lead	MG/L	NA	NA	NA	NA	NA
Magnesium	MG/L	NA	NA	NA	NA	NA
Manganese	MG/L	NA	NA	NA	NA	NA
Mercury	MG/L	NA	NA	NA	NA	NA
Nickel	MG/L	NA	NA	NA	NA	NA
Potassium	MG/L	NA	NA	NA	NA	NA
Selenium	MG/L	NA	NA	NA	NA	NA
Silver	MG/L	NA	NA	NA	NA	NA
Sodium	MG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Location ID Sample ID		PDI-07	PDI-08	PDI-09	PDI-10	PDI-11
		PDI-7_GW	PDI-8_GW	PDI-9_GW	PDI-10_GW	PDI-11_GW
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		04/27/22	04/27/22	04/28/22	04/28/22	04/28/22
Parameter	Units					
Metals						
Thallium	MG/L	NA	NA	NA	NA	NA
Vanadium	MG/L	NA	NA	NA	NA	NA
Zinc	MG/L	NA	NA	NA	NA	NA
Dissolved Metals						
Iron	MG/L	NA	NA	NA	NA	NA
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Chloride	MG/L	NA	NA	NA	NA	NA
Nitrate-Nitrogen	MG/L	NA	NA	NA	NA	NA
Sulfate (as SO4)	MG/L	NA	NA	NA	NA	NA
Dissolved Gases						
Methane	UG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Location ID		PDI-12
Sample ID	PDI-12_GW	
Matrix	Groundwater	
Depth Interval (ft)	-	
Date Sampled	_	04/28/22
Parameter	Units	
Volatile Organic Compounds		
1,1,1-Trichloroethane	UG/L	20 UJ
1,1,2,2-Tetrachloroethane	UG/L	20 UJ
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	20 UJ
1,1,2-Trichloroethane	UG/L	20 UJ
1,1-Dichloroethane	UG/L	20 J
1,1-Dichloroethene	UG/L	20 UJ
1,2,4-Trichlorobenzene	UG/L	20 UJ
1,2-Dibromo-3-chloropropane	UG/L	20 UJ
1,2-Dibromoethane (Ethylene dibromide)	UG/L	20 UJ
1,2-Dichlorobenzene	UG/L	20 UJ
1,2-Dichloroethane	UG/L	20 UJ
1,2-Dichloroethene (cis)	UG/L	1,400 J
1,2-Dichloroethene (trans)	UG/L	20 UJ
1,2-Dichloropropane	UG/L	20 UJ
1,3-Dichlorobenzene	UG/L	20 UJ
1,3-Dichloropropene (cis)	UG/L	20 UJ
1,3-Dichloropropene (trans)	UG/L	20 UJ
1,4-Dichlorobenzene	UG/L	20 UJ
2-Hexanone	UG/L	100 UJ
4-Methyl-2-pentanone	UG/L	100 UJ
Acetone	UG/L	160 J
Benzene	UG/L	20 UJ
Bromodichloromethane	UG/L	20 UJ

Flags assigned during chemistry validation are shown.

Location ID		PDI-12
Sample ID		PDI-12_GW
Matrix	Groundwater	
Depth Interval (ft)		-
Date Sampled		04/28/22
Parameter	Units	
Volatile Organic Compounds		
Bromoform	UG/L	20 UJ
Bromomethane	UG/L	20 UJ
Carbon disulfide	UG/L	20 UJ
Carbon tetrachloride	UG/L	20 UJ
Chlorobenzene	UG/L	20 UJ
Chloroethane	UG/L	11 J
Chloroform	UG/L	20 UJ
Chloromethane	UG/L	20 UJ
Cyclohexane	UG/L	20 UJ
Dibromochloromethane	UG/L	20 UJ
Dichlorodifluoromethane	UG/L	20 UJ
Ethylbenzene	UG/L	20 UJ
Isopropylbenzene (Cumene)	UG/L	20 UJ
Methyl acetate	UG/L	50 UJ
Methyl ethyl ketone (2-Butanone)	UG/L	200 UJ
Methyl tert-butyl ether	UG/L	20 UJ
Methylcyclohexane	UG/L	20 UJ
Methylene chloride	UG/L	20 UJ
Styrene	UG/L	20 UJ
Tetrachloroethene	UG/L	20 UJ
Toluene	UG/L	20 UJ
Trichloroethene	UG/L	45 J
Trichlorofluoromethane	UG/L	20 UJ

Flags assigned during chemistry validation are shown.

Location ID	PDI-12	
Sample ID	PDI-12_GW	
Matrix	Groundwater	
Depth Interval (ft)	-	
Date Sampled		04/28/22
Parameter	Units	
Volatile Organic Compounds		
Vinyl chloride	UG/L	34 J
Xylene (total)	UG/L	40 UJ
Metals		
Aluminum	MG/L	NA
Antimony	MG/L	NA
Arsenic	MG/L	NA
Barium	MG/L	NA
Beryllium	MG/L	NA
Cadmium	MG/L	NA
Calcium	MG/L	NA
Chromium	MG/L	NA
Cobalt	MG/L	NA
Copper	MG/L	NA
Iron	MG/L	NA
Lead	MG/L	NA
Magnesium	MG/L	NA
Manganese	MG/L	NA
Mercury	MG/L	NA
Nickel	MG/L	NA
Potassium	MG/L	NA
Selenium	MG/L	NA
Silver	MG/L	NA
Sodium	MG/L	NA

Flags assigned during chemistry validation are shown.

Location ID	PDI-12	
Sample ID	PDI-12_GW	
Matrix		Groundwater
Depth Interval (ft)		-
Date Sampled		04/28/22
Parameter	Units	
Metals		
Thallium	MG/L	NA
Vanadium	MG/L	NA
Zinc	MG/L	NA
Dissolved Metals		
Iron	MG/L	NA
Miscellaneous Parameters		
Alkalinity, Total (as CaCO3)	MG/L	NA
Chloride	MG/L	NA
Nitrate-Nitrogen	MG/L	NA
Sulfate (as SO4)	MG/L	NA
Dissolved Gases		
Methane	UG/L	NA

Flags assigned during chemistry validation are shown.

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID Matrix Depth Interval (ft)		TRIP BLANK-042722	RB_042822	TB_042822	RB-050922	TB-050922
		Water Quality	Water Quality	Water Quality	Water Quality	Water Quality -
		-	-	-	-	
Date Sampled		04/27/22	04/28/22	04/28/22	05/09/22	05/09/22
Parameter	Units	Trip Blank (1-1)	Rinse Blank (1-1)	Trip Blank (1-1)	Rinse Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	10 U	10 U	10 U	10 U	10 U
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID Matrix		TRIP BLANK-042722	RB_042822	TB_042822	RB-050922	TB-050922
		Water Quality	Water Quality	Water Quality	Water Quality	Water Quality
Depth Interval (ft)		-	-	-	-	-
Date Sampled		04/27/22	04/28/22	04/28/22	05/09/22	05/09/22
Parameter	Units	Trip Blank (1-1)	Rinse Blank (1-1)	Trip Blank (1-1)	Rinse Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl ethyl ketone (2-Butanone)	UG/L	10 U	10 U	10 U	10 U	10 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	UG/L	1.0 U	1.0 U	0.72 J	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID Matrix		TRIP BLANK-042722	RB_042822	TB_042822	RB-050922	TB-050922
		Water Quality	Water Quality	Water Quality	Water Quality	Water Quality
Depth Interval (ft)		-	-	-	-	-
Date Sampled		04/27/22	04/28/22	04/28/22	05/09/22	05/09/22
Parameter	Units	Trip Blank (1-1)	Rinse Blank (1-1)	Trip Blank (1-1)	Rinse Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds						
Vinyl chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylene (total)	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Metals						
Aluminum	MG/L	NA	0.20 U	NA	0.20 U	NA
Antimony	MG/L	NA	0.020 U	NA	0.020 U	NA
Arsenic	MG/L	NA	0.015 U	NA	0.015 U	NA
Barium	MG/L	NA	0.0020 U	NA	0.0020 U	NA
Beryllium	MG/L	NA	0.0020 U	NA	0.0020 U	NA
Cadmium	MG/L	NA	0.0020 U	NA	0.0020 U	NA
Calcium	MG/L	NA	0.50 U	NA	0.50 U	NA
Chromium	MG/L	NA	0.0040 U	NA	0.0040 U	NA
Cobalt	MG/L	NA	0.0040 U	NA	0.0040 U	NA
Copper	MG/L	NA	0.017	NA	0.017	NA
Iron	MG/L	NA	0.050 U	NA	0.050 U	NA
Lead	MG/L	NA	0.010 U	NA	0.010 U	NA
Magnesium	MG/L	NA	0.20 U	NA	0.20 U	NA
Manganese	MG/L	NA	0.00062 J	NA	0.0030 U	NA
Mercury	MG/L	NA	0.00020 U	NA	0.00020 U	NA
Nickel	MG/L	NA	0.010 U	NA	0.010 U	NA
Potassium	MG/L	NA	0.50 U	NA	0.50 U	NA
Selenium	MG/L	NA	0.025 U	NA	0.025 U	NA
Silver	MG/L	NA	0.0060 U	NA	0.0060 U	NA
Sodium	MG/L	NA	1.0 U	NA	1.0 U	NA

Flags assigned during chemistry validation are shown.

**Detection Limits shown are PQL** 

Location ID Sample ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
		TRIP BLANK-042722	RB_042822	TB_042822	RB-050922	TB-050922
Matrix		Water Quality	Water Quality	Water Quality	Water Quality	Water Quality
Depth Interval (ft)		-	-	-	-	-
Date Sampled		04/27/22	04/28/22	04/28/22	05/09/22	05/09/22
Parameter	Units	Trip Blank (1-1)	Rinse Blank (1-1)	Trip Blank (1-1)	Rinse Blank (1-1)	Trip Blank (1-1)
Metals						
Thallium	MG/L	NA	0.020 U	NA	0.020 U	NA
Vanadium	MG/L	NA	0.0050 U	NA	0.0050 U	NA
Zinc	MG/L	NA	0.010 U	NA	0.010 U	NA
Dissolved Metals						
Iron	MG/L	NA	NA	NA	0.050 U	NA
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	NA	NA	NA	1.0 J	NA
Chloride	MG/L	NA	NA	NA	0.50 U	NA
Nitrate-Nitrogen	MG/L	NA	NA	NA	0.033 J	NA
Sulfate (as SO4)	MG/L	NA	NA	NA	2.0 U	NA
Dissolved Gases						
Methane	UG/L	NA	NA	NA	4.0 U	4.0 U

Flags assigned during chemistry validation are shown.

Location ID		FIELDQC
Sample ID	TB-051022	
Matrix	Water Quality	
Depth Interval (ft)	-	
Date Sampled	-	05/10/22
Parameter	Units	Trip Blank (1-1)
Volatile Organic Compounds		
1,1,1-Trichloroethane	UG/L	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U
1,1-Dichloroethane	UG/L	1.0 U
1,1-Dichloroethene	UG/L	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U
1,2-Dichloroethane	UG/L	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U
1,2-Dichloropropane	UG/L	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U
2-Hexanone	UG/L	5.0 U
4-Methyl-2-pentanone	UG/L	5.0 U
Acetone	UG/L	10 U
Benzene	UG/L	1.0 U
Bromodichloromethane	UG/L	1.0 U

Flags assigned during chemistry validation are shown.

Location ID		FIELDQC
Sample ID	TB-051022	
Matrix	Water Quality	
Depth Interval (ft)	-	
Date Sampled	05/10/22	
Parameter	Units	Trip Blank (1-1)
Volatile Organic Compounds		
Bromoform	UG/L	1.0 U
Bromomethane	UG/L	1.0 U
Carbon disulfide	UG/L	1.0 U
Carbon tetrachloride	UG/L	1.0 U
Chlorobenzene	UG/L	1.0 U
Chloroethane	UG/L	1.0 U
Chloroform	UG/L	1.0 U
Chloromethane	UG/L	1.0 U
Cyclohexane	UG/L	1.0 U
Dibromochloromethane	UG/L	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U
Ethylbenzene	UG/L	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U
Methyl acetate	UG/L	2.5 U
Methyl ethyl ketone (2-Butanone)	UG/L	10 U
Methyl tert-butyl ether	UG/L	1.0 U
Methylcyclohexane	UG/L	1.0 U
Methylene chloride	UG/L	1.0 U
Styrene	UG/L	1.0 U
Tetrachloroethene	UG/L	1.0 U
Toluene	UG/L	1.0 U
Trichloroethene	UG/L	1.0 U
Trichlorofluoromethane	UG/L	1.0 U

Flags assigned during chemistry validation are shown.

Location ID	FIELDQC	
Sample ID	TB-051022	
Matrix		Water Quality
Depth Interval (ft)		-
Date Sampled		05/10/22
Parameter	Units	Trip Blank (1-1)
Volatile Organic Compounds		
Vinyl chloride	UG/L	1.0 U
Xylene (total)	UG/L	2.0 U
Metals		
Aluminum	MG/L	NA
Antimony	MG/L	NA
Arsenic	MG/L	NA
Barium	MG/L	NA
Beryllium	MG/L	NA
Cadmium	MG/L	NA
Calcium	MG/L	NA
Chromium	MG/L	NA
Cobalt	MG/L	NA
Copper	MG/L	NA
Iron	MG/L	NA
Lead	MG/L	NA
Magnesium	MG/L	NA
Manganese	MG/L	NA
Mercury	MG/L	NA
Nickel	MG/L	NA
Potassium	MG/L	NA
Selenium	MG/L	NA
Silver	MG/L	NA
Sodium	MG/L	NA

Flags assigned during chemistry validation are shown.

Location ID	FIELDQC	
Sample ID		TB-051022
Matrix		Water Quality
Depth Interval (ft)		-
Date Sampled		05/10/22
Parameter	Units	Trip Blank (1-1)
Metals		
Thallium	MG/L	NA
Vanadium	MG/L	NA
Zinc	MG/L	NA
Dissolved Metals		
Iron	MG/L	NA
Miscellaneous Parameters		
Alkalinity, Total (as CaCO3)	MG/L	NA
Chloride	MG/L	NA
Nitrate-Nitrogen	MG/L	NA
Sulfate (as SO4)	MG/L	NA
Dissolved Gases		
Methane	UG/L	NA

Flags assigned during chemistry validation are shown.

# ATTACHMENT A

# VALIDATED FORM 1's

Job No.: 480-197248-1	
Sample ID: 480-197248-1	
p File ID: M03437.D	
te Collected: 04/27/2022 09:40	
ce Analyzed: 05/02/2022 12:54	
lution Factor: 1	
Column: ZB-624 (30) VOA ID: 0.25(mm)	
vel: (low/med) Low	
ts: ug/Kg	

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		4.3	0.31
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.3	0.69
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan e	ND		4.3	0.97
79-00-5	1,1,2-Trichloroethane	ND		4.3	0.55
75-34-3	1,1-Dichloroethane	ND		4.3	0.52
75-35-4	1,1-Dichloroethene	ND		4.3	0.52
120-82-1	1,2,4-Trichlorobenzene	ND		4.3	0.26
96-12-8	1,2-Dibromo-3-Chloropropane	ND		4.3	2.1
106-93-4	1,2-Dibromoethane	ND		4.3	0.55
95-50-1	1,2-Dichlorobenzene	ND		4.3	0.33
107-06-2	1,2-Dichloroethane	ND		4.3	0.21
78-87-5	1,2-Dichloropropane	ND		4.3	2.1
541-73-1	1,3-Dichlorobenzene	ND		4.3	0.22
106-46-7	1,4-Dichlorobenzene	ND		4.3	0.60
78-93-3	2-Butanone (MEK)	ND		21	1.6
591-78-6	2-Hexanone	ND		21	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		21	1.4
67-64-1	Acetone	4.4	J	21	3.6
71-43-2	Benzene	ND		4.3	0.21
75-27-4	Bromodichloromethane	ND		4.3	0.57
75-25-2	Bromoform	ND		4.3	2.1
74-83-9	Bromomethane	ND		4.3	0.38
75-15-0	Carbon disulfide	ND		4.3	2.1
56-23-5	Carbon tetrachloride	ND		4.3	0.41
108-90-7	Chlorobenzene	ND		4.3	0.56
75-00-3	Chloroethane	ND		4.3	0.96
67-66-3	Chloroform	ND		4.3	0.26
74-87-3	Chloromethane	ND		4.3	0.26
156-59-2	cis-1,2-Dichloroethene	ND		4.3	0.54
10061-01-5	cis-1,3-Dichloropropene	ND		4.3	0.61
110-82-7	Cyclohexane	ND		4.3	0.60
124-48-1	Dibromochloromethane	ND		4.3	0.54
75-71-8	Dichlorodifluoromethane	ND		4.3	0.35
100-41-4	Ethylbenzene	ND		4.3	0.29
98-82-8	Isopropylbenzene	ND		4.3	0.64

Lab Name: Eurofins Buffalo	Job No.: 480-197248-1
SDG No.:	
Client Sample ID: PDI-1_0405	Lab Sample ID: 480-197248-1
Matrix: Solid	Lab File ID: M03437.D
Analysis Method: 8260C	Date Collected: 04/27/2022 09:40
Sample wt/vol: 6.788(g)	Date Analyzed: 05/02/2022 12:54
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: ZB-624 (30) VOA ID: 0.25(mm)
% Moisture: 13.4	Level: (low/med) Low
Analysis Batch No.: 624070	Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		21	2.6
1634-04-4	Methyl tert-butyl ether	ND		4.3	0.42
108-87-2	Methylcyclohexane	ND		4.3	0.65
75-09-2	Methylene Chloride	ND		4.3	2.0
100-42-5	Styrene	ND		4.3	0.21
127-18-4	Tetrachloroethene	ND		4.3	0.57
108-88-3	Toluene	ND		4.3	0.32
156-60-5	trans-1,2-Dichloroethene	ND		4.3	0.44
10061-02-6	trans-1,3-Dichloropropene	ND		4.3	1.9
79-01-6	Trichloroethene	ND		4.3	0.94
75-69-4	Trichlorofluoromethane	ND		4.3	0.40
75-01-4	Vinyl chloride	ND		4.3	0.52
1330-20-7	Xylenes, Total	ND		8.5	0.71

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		64-126
460-00-4	4-Bromofluorobenzene (Surr)	95		72-126
1868-53-7	Dibromofluoromethane (Surr)	102		60-140
2037-26-5	Toluene-d8 (Surr)	97		71-125

Lab Name: Eurofins Buffalo	Job No.: 480-197248-1	
SDG No.:		
Client Sample ID: PDI-1_GW	Lab Sample ID: 480-197248-2	
Matrix: Water	Lab File ID: N3572.D	
Analysis Method: 8260C	Date Collected: 04/27/2022 10:15	
Sample wt/vol: 5(mL)	Date Analyzed: 04/30/2022 06:39	
Soil Aliquot Vol:	Dilution Factor: 1	
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)	
% Moisture:	Level: (low/med) Low	
Analysis Batch No.: 623887	Units: ug/L	

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan e	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	0.34	J	1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

Lab Name: Eurofins Buffalo	Job No.: 480-197248-1
SDG No.:	
Client Sample ID: PDI-1_GW	Lab Sample ID: 480-197248-2
Matrix: Water	Lab File ID: N3572.D
Analysis Method: 8260C	Date Collected: 04/27/2022 10:15
Sample wt/vol: 5(mL)	Date Analyzed: 04/30/2022 06:39
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)
% Moisture:	Level: (low/med) Low
Analysis Batch No.: 623887	Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	0.24	J	1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		77-120
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123
2037-26-5	Toluene-d8 (Surr)	102		80-120

Job No.: 480-197248-1		
Lab Sample ID: 480-197248-3		
Lab File ID: M03438.D		
Date Collected: 04/27/2022 11:05		
Date Analyzed: 05/02/2022 13:18		
Dilution Factor: 1		
GC Column: ZB-624 (30) VOA ID: 0.25(mm)		
Level: (low/med) Low		
Units: ug/Kg		

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		4.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.0	0.65
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan e	ND		4.0	0.91
79-00-5	1,1,2-Trichloroethane	ND		4.0	0.52
75-34-3	1,1-Dichloroethane	ND		4.0	0.49
75-35-4	1,1-Dichloroethene	ND		4.0	0.49
120-82-1	1,2,4-Trichlorobenzene	ND		4.0	0.24
96-12-8	1,2-Dibromo-3-Chloropropane	ND		4.0	2.0
106-93-4	1,2-Dibromoethane	ND		4.0	0.51
95-50-1	1,2-Dichlorobenzene	ND		4.0	0.31
107-06-2	1,2-Dichloroethane	ND		4.0	0.20
78-87-5	1,2-Dichloropropane	ND		4.0	2.0
541-73-1	1,3-Dichlorobenzene	ND		4.0	0.21
106-46-7	1,4-Dichlorobenzene	ND		4.0	0.56
78-93-3	2-Butanone (MEK)	ND		20	1.5
591-78-6	2-Hexanone	ND		20	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		20	1.3
67-64-1	Acetone	ND		20	3.4
71-43-2	Benzene	ND		4.0	0.20
75-27-4	Bromodichloromethane	ND		4.0	0.54
75-25-2	Bromoform	ND		4.0	2.0
74-83-9	Bromomethane	ND		4.0	0.36
75-15-0	Carbon disulfide	ND		4.0	2.0
56-23-5	Carbon tetrachloride	ND		4.0	0.39
108-90-7	Chlorobenzene	ND		4.0	0.53
75-00-3	Chloroethane	ND		4.0	0.91
67-66-3	Chloroform	ND		4.0	0.25
74-87-3	Chloromethane	ND		4.0	0.24
156-59-2	cis-1,2-Dichloroethene	0.68	J	4.0	0.51
10061-01-5	cis-1,3-Dichloropropene	ND		4.0	0.58
110-82-7	Cyclohexane	ND		4.0	0.56
124-48-1	Dibromochloromethane	ND		4.0	0.51
75-71-8	Dichlorodifluoromethane	ND		4.0	0.33
100-41-4	Ethylbenzene	ND		4.0	0.28
98-82-8	Isopropylbenzene	ND		4.0	0.60

Lab Name: Eurofins Buffalo	Job No.: 480-197248-1
SDG No.:	
Client Sample ID: PDI-2_0203	Lab Sample ID: 480-197248-3
Matrix: Solid	Lab File ID: M03438.D
Analysis Method: 8260C	Date Collected: 04/27/2022 11:05
Sample wt/vol: 7.041(g)	Date Analyzed: 05/02/2022 13:18
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: ZB-624 (30) VOA ID: 0.25(mm)
% Moisture: 11.4	Level: (low/med) Low
Analysis Batch No.: 624070	Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		20	2.4
1634-04-4	Methyl tert-butyl ether	ND		4.0	0.39
108-87-2	Methylcyclohexane	ND		4.0	0.61
75-09-2	Methylene Chloride	ND		4.0	1.8
100-42-5	Styrene	ND		4.0	0.20
127-18-4	Tetrachloroethene	ND		4.0	0.54
108-88-3	Toluene	ND		4.0	0.30
156-60-5	trans-1,2-Dichloroethene	ND		4.0	0.41
10061-02-6	trans-1,3-Dichloropropene	ND		4.0	1.8
79-01-6	Trichloroethene	ND		4.0	0.88
75-69-4	Trichlorofluoromethane	ND		4.0	0.38
75-01-4	Vinyl chloride	ND		4.0	0.49
1330-20-7	Xylenes, Total	ND		8.0	0.67

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		64-126
460-00-4	4-Bromofluorobenzene (Surr)	95		72-126
1868-53-7	Dibromofluoromethane (Surr)	106		60-140
2037-26-5	Toluene-d8 (Surr)	96		71-125

Lab Name: Eurofins Buffalo	Job No.: 480-197248-1			
SDG No.:				
Client Sample ID: PDI-6_GW	Lab Sample ID: 480-197248-4			
Matrix: Water	Lab File ID: N3573.D			
Analysis Method: 8260C	Date Collected: 04/27/2022 11:08			
Sample wt/vol: 5(mL)	Date Analyzed: 04/30/2022 07:02			
Soil Aliquot Vol:	Dilution Factor: 1			
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)			
% Moisture:	Level: (low/med) Low			
Analysis Batch No.: 623887	Units: ug/L			

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	3.4	J	10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

Lab Name: Eurofins Buffalo	Job No.: 480-197248-1			
SDG No.:				
Client Sample ID: PDI-6_GW	Lab Sample ID: 480-197248-4			
Matrix: Water	Lab File ID: N3573.D			
Analysis Method: 8260C	Date Collected: 04/27/2022 11:08			
Sample wt/vol: 5(mL)	Date Analyzed: 04/30/2022 07:02			
Soil Aliquot Vol:	Dilution Factor: 1			
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)			
% Moisture:	Level: (low/med) Low			
Analysis Batch No.: <u>623887</u>	Units: ug/L			

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		77-120
460-00-4	4-Bromofluorobenzene (Surr)	104		73-120
1868-53-7	Dibromofluoromethane (Surr)	97		75-123
2037-26-5	Toluene-d8 (Surr)	100		80-120

Lab Name: Eurofins Buffalo Jo	Job No.: 480-197248-1			
SDG No.:				
Client Sample ID: PDI-7_0203 La	ab Sample ID: 480-197248-5			
Matrix: Solid	Lab File ID: M03439.D			
Analysis Method: 8260C Da	Date Collected: 04/27/2022 12:09			
Sample wt/vol: 6.743(g) Da	Date Analyzed: 05/02/2022 13:42			
Soil Aliquot Vol: Di	Dilution Factor: 1			
Soil Extract Vol.: GC	C Column: ZB-624 (30) VOA ID: 0.25(mm)			
% Moisture: 16.9	Level: (low/med) Low			
Analysis Batch No.: 624070 Un	Units: ug/Kg			

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		4.5	0.32
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.5	0.72
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan e	ND		4.5	1.0
79-00-5	1,1,2-Trichloroethane	ND		4.5	0.58
75-34-3	1,1-Dichloroethane	ND		4.5	0.54
75-35-4	1,1-Dichloroethene	ND		4.5	0.55
120-82-1	1,2,4-Trichlorobenzene	ND		4.5	0.27
96-12-8	1,2-Dibromo-3-Chloropropane	ND		4.5	2.2
106-93-4	1,2-Dibromoethane	ND		4.5	0.57
95-50-1	1,2-Dichlorobenzene	ND		4.5	0.35
107-06-2	1,2-Dichloroethane	ND		4.5	0.22
78-87-5	1,2-Dichloropropane	ND		4.5	2.2
541-73-1	1,3-Dichlorobenzene	ND		4.5	0.23
106-46-7	1,4-Dichlorobenzene	ND		4.5	0.62
78-93-3	2-Butanone (MEK)	ND		22	1.6
591-78-6	2-Hexanone	ND		22	2.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		22	1.5
67-64-1	Acetone	ND		22	3.8
71-43-2	Benzene	ND		4.5	0.22
75-27-4	Bromodichloromethane	ND		4.5	0.60
75-25-2	Bromoform	ND		4.5	2.2
74-83-9	Bromomethane	ND		4.5	0.40
75-15-0	Carbon disulfide	ND		4.5	2.2
56-23-5	Carbon tetrachloride	ND		4.5	0.43
108-90-7	Chlorobenzene	ND		4.5	0.59
75-00-3	Chloroethane	ND		4.5	1.0
67-66-3	Chloroform	ND		4.5	0.28
74-87-3	Chloromethane	ND		4.5	0.27
156-59-2	cis-1,2-Dichloroethene	ND		4.5	0.57
10061-01-5	cis-1,3-Dichloropropene	ND		4.5	0.64
110-82-7	Cyclohexane	ND		4.5	0.62
124-48-1	Dibromochloromethane	ND		4.5	0.57
75-71-8	Dichlorodifluoromethane	ND		4.5	0.37
100-41-4	Ethylbenzene	ND		4.5	0.31
98-82-8	Isopropylbenzene	ND		4.5	0.67

Lab Name: Eurofins Buffalo	Job No.: 480-197248-1
SDG No.:	
Client Sample ID: PDI-7_0203	Lab Sample ID: 480-197248-5
Matrix: Solid	Lab File ID: M03439.D
Analysis Method: 8260C	Date Collected: 04/27/2022 12:09
Sample wt/vol: 6.743(g)	Date Analyzed: 05/02/2022 13:42
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: ZB-624 (30) VOA ID: 0.25(mm)
% Moisture: 16.9	Level: (low/med) Low
Analysis Batch No.: 624070	Units: ug/Kg
Analysis Method: 8260C Sample wt/vol: 6.743(g) Soil Aliquot Vol: Soil Extract Vol.: % Moisture: 16.9	Date Collected: 04/27/2022 12:09         Date Analyzed: 05/02/2022 13:42         Dilution Factor: 1         GC Column: ZB-624 (30) VOA ID: 0.25(mm)         Level: (low/med) Low

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		22	2.7
1634-04-4	Methyl tert-butyl ether	ND		4.5	0.44
108-87-2	Methylcyclohexane	ND		4.5	0.68
75-09-2	Methylene Chloride	ND		4.5	2.1
100-42-5	Styrene	ND		4.5	0.22
127-18-4	Tetrachloroethene	ND		4.5	0.60
108-88-3	Toluene	ND		4.5	0.34
156-60-5	trans-1,2-Dichloroethene	ND		4.5	0.46
10061-02-6	trans-1,3-Dichloropropene	ND		4.5	2.0
79-01-6	Trichloroethene	ND		4.5	0.98
75-69-4	Trichlorofluoromethane	ND		4.5	0.42
75-01-4	Vinyl chloride	ND		4.5	0.54
1330-20-7	Xylenes, Total	ND		8.9	0.75

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		64-126
460-00-4	4-Bromofluorobenzene (Surr)	89		72-126
1868-53-7	Dibromofluoromethane (Surr)	108		60-140
2037-26-5	Toluene-d8 (Surr)	99		71-125

Lab Name: Eurofins Buffalo	Job No.: 480-197248-1				
SDG No.:					
Client Sample ID: PDI-2_GW	Lab Sample ID: 480-197248-6				
Matrix: Water	Lab File ID: N3574.D				
Analysis Method: 8260C	Date Collected: 04/27/2022 12:20				
Sample wt/vol: 5(mL)	Date Analyzed: 04/30/2022 07:25				
Soil Aliquot Vol:	Dilution Factor: 1				
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)				
% Moisture:	Level: (low/med) Low				
Analysis Batch No.: 623887	Units: ug/L				

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan e	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	6.4	J	10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

Lab Name: Eurofins Buffalo	Job No.: 480-197248-1				
SDG No.:					
Client Sample ID: PDI-2_GW	Lab Sample ID: 480-197248-6				
Matrix: Water	Lab File ID: N3574.D				
Analysis Method: 8260C	Date Collected: 04/27/2022 12:20				
Sample wt/vol: 5(mL)	Date Analyzed: 04/30/2022 07:25				
Soil Aliquot Vol:	Dilution Factor: 1				
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)				
% Moisture:	Level: (low/med) Low				
Analysis Batch No.: 623887	Units: ug/L				

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	0.53	J	1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	99		73-120
1868-53-7	Dibromofluoromethane (Surr)	94		75-123
2037-26-5	Toluene-d8 (Surr)	97		80-120

Lab Name: Eurofins Buffalo	Job No.: 480-197248-1				
SDG No.:					
Client Sample ID: PDI-7_GW	Lab Sample ID: 480-197248-7				
Matrix: Water	Lab File ID: N3575.D				
Analysis Method: 8260C	Date Collected: 04/27/2022 13:15				
Sample wt/vol: 5(mL)	Date Analyzed: 04/30/2022 07:48				
Soil Aliquot Vol:	Dilution Factor: 1				
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)				
% Moisture:	Level: (low/med) Low				
Analysis Batch No.: 623887	Units: ug/L				

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	4.2	J	10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	0.68	J	1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	0.67	J	1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

Lab Name: Eurofins Buffalo	Job No.: 480-197248-1				
SDG No.:					
Client Sample ID: PDI-7_GW	Lab Sample ID: 480-197248-7				
Matrix: Water	Lab File ID: N3575.D				
Analysis Method: 8260C	Date Collected: 04/27/2022 13:15				
Sample wt/vol: 5(mL)	Date Analyzed: 04/30/2022 07:48				
Soil Aliquot Vol:	Dilution Factor: 1				
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)				
% Moisture:	Level: (low/med) Low				
Analysis Batch No.: 623887	Units: ug/L				

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123
2037-26-5	Toluene-d8 (Surr)	98		80-120

Lab Name: Eurofins Buffalo	Job No.: 480-197248-1
SDG No.:	
Client Sample ID: PDI-3_0203	Lab Sample ID: 480-197248-8
Matrix: Solid	Lab File ID: M03440.D
Analysis Method: 8260C	Date Collected: 04/27/2022 13:45
Sample wt/vol: 6.077(g)	Date Analyzed: 05/02/2022 14:06
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: ZB-624 (30) VOA ID: 0.25(mm)
% Moisture: 14.8	Level: (low/med) Low
Analysis Batch No.: 624070	Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		4.8	0.35
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.8	0.78
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan e	ND		4.8	1.1
79-00-5	1,1,2-Trichloroethane	ND		4.8	0.63
75-34-3	1,1-Dichloroethane	ND		4.8	0.59
75-35-4	1,1-Dichloroethene	ND		4.8	0.59
120-82-1	1,2,4-Trichlorobenzene	ND		4.8	0.29
96-12-8	1,2-Dibromo-3-Chloropropane	ND		4.8	2.4
106-93-4	1,2-Dibromoethane	ND		4.8	0.62
95-50-1	1,2-Dichlorobenzene	ND		4.8	0.38
107-06-2	1,2-Dichloroethane	ND		4.8	0.24
78-87-5	1,2-Dichloropropane	ND		4.8	2.4
541-73-1	1,3-Dichlorobenzene	ND		4.8	0.25
106-46-7	1,4-Dichlorobenzene	ND		4.8	0.68
78-93-3	2-Butanone (MEK)	ND		24	1.8
591-78-6	2-Hexanone	ND		24	2.4
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		24	1.6
67-64-1	Acetone	31		24	4.1
71-43-2	Benzene	ND		4.8	0.24
75-27-4	Bromodichloromethane	ND		4.8	0.65
75-25-2	Bromoform	ND		4.8	2.4
74-83-9	Bromomethane	ND		4.8	0.43
75-15-0	Carbon disulfide	ND		4.8	2.4
56-23-5	Carbon tetrachloride	ND		4.8	0.47
108-90-7	Chlorobenzene	ND		4.8	0.64
75-00-3	Chloroethane	ND		4.8	1.1
67-66-3	Chloroform	ND		4.8	0.30
74-87-3	Chloromethane	ND		4.8	0.29
156-59-2	cis-1,2-Dichloroethene	1.2	J	4.8	0.62
10061-01-5	cis-1,3-Dichloropropene	ND		4.8	0.70
110-82-7	Cyclohexane	ND		4.8	0.68
124-48-1	Dibromochloromethane	ND		4.8	0.62
75-71-8	Dichlorodifluoromethane	ND		4.8	0.40
100-41-4	Ethylbenzene	ND		4.8	0.33
98-82-8	Isopropylbenzene	ND		4.8	0.73

Lab Name: Eurofins Buffalo	Job No.: 480-197248-1
SDG No.:	
Client Sample ID: PDI-3_0203	Lab Sample ID: 480-197248-8
Matrix: Solid	Lab File ID: M03440.D
Analysis Method: 8260C	Date Collected: 04/27/2022 13:45
Sample wt/vol: 6.077(g)	Date Analyzed: 05/02/2022 14:06
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: ZB-624 (30) VOA ID: 0.25(mm)
% Moisture: 14.8	Level: (low/med) Low
Analysis Batch No.: 624070	Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		24	2.9
1634-04-4	Methyl tert-butyl ether	ND		4.8	0.47
108-87-2	Methylcyclohexane	ND		4.8	0.73
75-09-2	Methylene Chloride	ND		4.8	2.2
100-42-5	Styrene	ND		4.8	0.24
127-18-4	Tetrachloroethene	ND		4.8	0.65
108-88-3	Toluene	ND		4.8	0.37
156-60-5	trans-1,2-Dichloroethene	ND		4.8	0.50
10061-02-6	trans-1,3-Dichloropropene	ND		4.8	2.1
79-01-6	Trichloroethene	ND		4.8	1.1
75-69-4	Trichlorofluoromethane	ND		4.8	0.46
75-01-4	Vinyl chloride	ND		4.8	0.59
1330-20-7	Xylenes, Total	ND		9.7	0.81

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		64-126
460-00-4	4-Bromofluorobenzene (Surr)	96		72-126
1868-53-7	Dibromofluoromethane (Surr)	106		60-140
2037-26-5	Toluene-d8 (Surr)	95		71-125

Lab Name: Eurofins Buffalo	Job No.: 480-197248-1				
SDG No.:					
Client Sample ID: PDI-8_0405	Lab Sample ID: 480-197248-9				
Matrix: Solid	Lab File ID: M03441.D				
Analysis Method: 8260C	Date Collected: 04/27/2022 14:09				
Sample wt/vol: 7.526(g)	Date Analyzed: 05/02/2022 14:30				
Soil Aliquot Vol:	Dilution Factor: 1				
Soil Extract Vol.:	GC Column: ZB-624 (30) VOA ID: 0.25(mm)				
% Moisture: 14.1	Level: (low/med) Low				
Analysis Batch No.: 624070	Units: ug/Kg				

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.80	J	3.9	0.28
79-34-5	1,1,2,2-Tetrachloroethane	ND		3.9	0.63
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan e	ND		3.9	0.88
79-00-5	1,1,2-Trichloroethane	ND		3.9	0.50
75-34-3	1,1-Dichloroethane	ND		3.9	0.47
75-35-4	1,1-Dichloroethene	ND		3.9	0.47
120-82-1	1,2,4-Trichlorobenzene	ND		3.9	0.24
96-12-8	1,2-Dibromo-3-Chloropropane	ND		3.9	1.9
106-93-4	1,2-Dibromoethane	ND		3.9	0.50
95-50-1	1,2-Dichlorobenzene	ND		3.9	0.30
107-06-2	1,2-Dichloroethane	ND		3.9	0.19
78-87-5	1,2-Dichloropropane	ND		3.9	1.9
541-73-1	1,3-Dichlorobenzene	ND		3.9	0.20
106-46-7	1,4-Dichlorobenzene	ND		3.9	0.54
78-93-3	2-Butanone (MEK)	ND		19	1.4
591-78-6	2-Hexanone	ND		19	1.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		19	1.3
67-64-1	Acetone	3.8	J	19	3.3
71-43-2	Benzene	ND		3.9	0.19
75-27-4	Bromodichloromethane	ND		3.9	0.52
75-25-2	Bromoform	ND		3.9	1.9
74-83-9	Bromomethane	ND		3.9	0.35
75-15-0	Carbon disulfide	ND		3.9	1.9
56-23-5	Carbon tetrachloride	ND		3.9	0.37
108-90-7	Chlorobenzene	ND		3.9	0.51
75-00-3	Chloroethane	ND		3.9	0.87
67-66-3	Chloroform	ND		3.9	0.24
74-87-3	Chloromethane	ND		3.9	0.23
156-59-2	cis-1,2-Dichloroethene	1.8	J	3.9	0.50
10061-01-5	cis-1,3-Dichloropropene	ND		3.9	0.56
110-82-7	Cyclohexane	ND		3.9	0.54
124-48-1	Dibromochloromethane	ND		3.9	0.50
75-71-8	Dichlorodifluoromethane	ND		3.9	0.32
100-41-4	Ethylbenzene	ND		3.9	0.27
98-82-8	Isopropylbenzene	ND		3.9	0.58

Lab Name: Eurofins Buffalo	Job No.: 480-197248-1	
SDG No.:		
Client Sample ID: PDI-8_0405	Lab Sample ID: 480-197248-9	
Matrix: Solid Lab File ID: M03441.D		
Analysis Method: 8260C	Date Collected: 04/27/2022 14:09	
Sample wt/vol: 7.526(g)	Date Analyzed: 05/02/2022 14:30	
Soil Aliquot Vol:	Dilution Factor: 1	
Soil Extract Vol.:	GC Column: ZB-624 (30) VOA ID: 0.25(mm)	
% Moisture: 14.1	Level: (low/med) Low	
Analysis Batch No.: 624070	Units: ug/Kg	

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		19	2.3
1634-04-4	Methyl tert-butyl ether	ND		3.9	0.38
108-87-2	Methylcyclohexane	ND		3.9	0.59
75-09-2	Methylene Chloride	ND		3.9	1.8
100-42-5	Styrene	ND		3.9	0.19
127-18-4	Tetrachloroethene	0.93	J	3.9	0.52
108-88-3	Toluene	ND		3.9	0.29
156-60-5	trans-1,2-Dichloroethene	ND		3.9	0.40
10061-02-6	trans-1,3-Dichloropropene	ND		3.9	1.7
79-01-6	Trichloroethene	ND		3.9	0.85
75-69-4	Trichlorofluoromethane	ND		3.9	0.37
75-01-4	Vinyl chloride	ND		3.9	0.47
1330-20-7	Xylenes, Total	ND		7.7	0.65

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		64-126
460-00-4	4-Bromofluorobenzene (Surr)	98		72-126
1868-53-7	Dibromofluoromethane (Surr)	106		60-140
2037-26-5	Toluene-d8 (Surr)	95		71-125

Lab Name: Eurofins Buffalo	Job No.: 480-197248-1		
SDG No.:			
Client Sample ID: PDI-3_GW	Lab Sample ID: 480-197248-10		
Matrix: Water	Lab File ID: N3576.D		
Analysis Method: 8260C	Date Collected: 04/27/2022 14:30		
Sample wt/vol: 5(mL)	Date Analyzed: 04/30/2022 08:12		
Soil Aliquot Vol:	Dilution Factor: 8		
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)		
% Moisture:	Level: (low/med) Low		
Analysis Batch No.: 623887	Units: ug/L		

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		8.0	6.6
79-34-5	1,1,2,2-Tetrachloroethane	ND		8.0	1.7
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan e	ND		8.0	2.5
79-00-5	1,1,2-Trichloroethane	ND		8.0	1.8
75-34-3	1,1-Dichloroethane	4.7	J	8.0	3.0
75-35-4	1,1-Dichloroethene	ND		8.0	2.3
120-82-1	1,2,4-Trichlorobenzene	ND		8.0	3.3
96-12-8	1,2-Dibromo-3-Chloropropane	ND		8.0	3.1
106-93-4	1,2-Dibromoethane	ND		8.0	5.8
95-50-1	1,2-Dichlorobenzene	ND		8.0	6.3
107-06-2	1,2-Dichloroethane	ND		8.0	1.7
78-87-5	1,2-Dichloropropane	ND		8.0	5.8
541-73-1	1,3-Dichlorobenzene	ND		8.0	6.2
106-46-7	1,4-Dichlorobenzene	ND		8.0	6.7
78-93-3	2-Butanone (MEK)	ND		80	11
591-78-6	2-Hexanone	ND		40	9.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		40	17
67-64-1	Acetone	ND		80	24
71-43-2	Benzene	ND		8.0	3.3
75-27-4	Bromodichloromethane	ND		8.0	3.1
75-25-2	Bromoform	ND		8.0	2.1
74-83-9	Bromomethane	ND		8.0	5.5
75-15-0	Carbon disulfide	ND		8.0	1.5
56-23-5	Carbon tetrachloride	ND		8.0	2.2
108-90-7	Chlorobenzene	ND		8.0	6.0
75-00-3	Chloroethane	ND		8.0	2.6
67-66-3	Chloroform	ND		8.0	2.7
74-87-3	Chloromethane	ND		8.0	2.8
156-59-2	cis-1,2-Dichloroethene	300		8.0	6.5
10061-01-5	cis-1,3-Dichloropropene	ND		8.0	2.9
110-82-7	Cyclohexane	ND		8.0	1.4
124-48-1	Dibromochloromethane	ND		8.0	2.6
75-71-8	Dichlorodifluoromethane	ND		8.0	5.4
100-41-4	Ethylbenzene	ND		8.0	5.9
98-82-8	Isopropylbenzene	ND		8.0	6.3

Lab Name: Eurofins Buffalo	Job No.: 480-197248-1			
SDG No.:				
Client Sample ID: PDI-3_GW	Lab Sample ID: 480-197248-10			
Matrix: Water	Lab File ID: N3576.D			
Analysis Method: 8260C	Date Collected: 04/27/2022 14:30			
Sample wt/vol: 5(mL)	Date Analyzed: 04/30/2022 08:12			
Soil Aliquot Vol:	Dilution Factor: 8			
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)			
% Moisture:	Level: (low/med) Low			
Analysis Batch No.: 623887	Units: ug/L			

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		20	10
1634-04-4	Methyl tert-butyl ether	ND		8.0	1.3
108-87-2	Methylcyclohexane	ND		8.0	1.3
75-09-2	Methylene Chloride	ND		8.0	3.5
100-42-5	Styrene	ND		8.0	5.8
127-18-4	Tetrachloroethene	ND		8.0	2.9
108-88-3	Toluene	ND		8.0	4.1
156-60-5	trans-1,2-Dichloroethene	ND		8.0	7.2
10061-02-6	trans-1,3-Dichloropropene	ND		8.0	3.0
79-01-6	Trichloroethene	ND		8.0	3.7
75-69-4	Trichlorofluoromethane	ND		8.0	7.0
75-01-4	Vinyl chloride	ND		8.0	7.2
1330-20-7	Xylenes, Total	ND		16	5.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123
2037-26-5	Toluene-d8 (Surr)	103		80-120

Lab Name: Eurofins Buffalo	Job No.: 480-197248-1		
SDG No.:			
Client Sample ID: PDI-6_0304	Lab Sample ID: <u>480-197248-11</u>		
Matrix: Solid Lab File ID: M03442.D			
Analysis Method: <u>8260C</u>	Date Collected: 04/27/2022 10:42		
Sample wt/vol: 6.872(g) Date Analyzed: 05/02/2022 14:54			
Soil Aliquot Vol:	Dilution Factor: 1		
Soil Extract Vol.:	GC Column: ZB-624 (30) VOA ID: 0.25(mm)		
% Moisture: <u>15.1</u>	Level: (low/med) Low		
Analysis Batch No.: 624070	Units: ug/Kg		

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		4.3	0.31
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.3	0.70
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan	ND		4.3	0.98
79-00-5	1,1,2-Trichloroethane	ND		4.3	0.56
75-34-3	1,1-Dichloroethane	ND		4.3	0.52
75-35-4	1,1-Dichloroethene	ND		4.3	0.52
120-82-1	1,2,4-Trichlorobenzene	ND		4.3	0.26
96-12-8	1,2-Dibromo-3-Chloropropane	ND		4.3	2.1
106-93-4	1,2-Dibromoethane	ND		4.3	0.55
95-50-1	1,2-Dichlorobenzene	ND		4.3	0.34
107-06-2	1,2-Dichloroethane	ND		4.3	0.22
78-87-5	1,2-Dichloropropane	ND		4.3	2.1
541-73-1	1,3-Dichlorobenzene	ND		4.3	0.22
106-46-7	1,4-Dichlorobenzene	ND		4.3	0.60
78-93-3	2-Butanone (MEK)	4.9	J	21	1.6
591-78-6	2-Hexanone	ND		21	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		21	1.4
67-64-1	Acetone	29		21	3.6
71-43-2	Benzene	ND		4.3	0.21
75-27-4	Bromodichloromethane	ND		4.3	0.57
75-25-2	Bromoform	ND		4.3	2.1
74-83-9	Bromomethane	ND		4.3	0.39
75-15-0	Carbon disulfide	ND		4.3	2.1
56-23-5	Carbon tetrachloride	ND		4.3	0.42
108-90-7	Chlorobenzene	ND		4.3	0.57
75-00-3	Chloroethane	ND		4.3	0.97
67-66-3	Chloroform	ND		4.3	0.26
74-87-3	Chloromethane	ND		4.3	0.26
156-59-2	cis-1,2-Dichloroethene	ND		4.3	0.55
10061-01-5	cis-1,3-Dichloropropene	ND		4.3	0.62
110-82-7	Cyclohexane	ND		4.3	0.60
124-48-1	Dibromochloromethane	ND		4.3	0.55
75-71-8	Dichlorodifluoromethane	ND		4.3	0.35
100-41-4	Ethylbenzene	ND		4.3	0.30
98-82-8	Isopropylbenzene	ND		4.3	0.65

Lab Name:Eurofins BuffaloJob No.:480-197248-1	
SDG No.:	
Client Sample ID: PDI-6_0304	Lab Sample ID: 480-197248-11
Matrix: Solid	Lab File ID: M03442.D
Analysis Method: 8260C	Date Collected: 04/27/2022 10:42
Sample wt/vol: 6.872(g)	Date Analyzed: 05/02/2022 14:54
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: ZB-624 (30) VOA ID: 0.25(mm)
% Moisture: 15.1	Level: (low/med) Low
Analysis Batch No.: 624070	Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		21	2.6
1634-04-4	Methyl tert-butyl ether	ND		4.3	0.42
108-87-2	Methylcyclohexane	ND		4.3	0.65
75-09-2	Methylene Chloride	ND		4.3	2.0
100-42-5	Styrene	ND		4.3	0.21
127-18-4	Tetrachloroethene	ND		4.3	0.58
108-88-3	Toluene	ND		4.3	0.32
156-60-5	trans-1,2-Dichloroethene	ND		4.3	0.44
10061-02-6	trans-1,3-Dichloropropene	ND		4.3	1.9
79-01-6	Trichloroethene	ND		4.3	0.94
75-69-4	Trichlorofluoromethane	ND		4.3	0.41
75-01-4	Vinyl chloride	ND		4.3	0.52
1330-20-7	Xylenes, Total	ND		8.6	0.72

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		64-126
460-00-4	4-Bromofluorobenzene (Surr)	95		72-126
1868-53-7	Dibromofluoromethane (Surr)	107		60-140
2037-26-5	Toluene-d8 (Surr)	95		71-125

Lab Name: Eurofins Buffalo	Job No.: 480-197248-1		
SDG No.:			
Client Sample ID: PDI-8_GW	Lab Sample ID: 480-197248-12		
Matrix: Water	Lab File ID: N3577.D		
Analysis Method: 8260C	Date Collected: 04/27/2022 15:10		
Sample wt/vol: 5(mL)	Date Analyzed: 04/30/2022 08:35		
Soil Aliquot Vol:	Dilution Factor: 1		
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)		
% Moisture:	Level: (low/med) Low		
Analysis Batch No.: 623887	Units: ug/L		

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	0.83	J	1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	3.4	J	10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	18		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	0.23	J	1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

Lab Name: Eurofins Buffalo	Job No.: 480-197248-1			
SDG No.:				
Client Sample ID: PDI-8_GW	Lab Sample ID: 480-197248-12			
Matrix: Water	Lab File ID: N3577.D			
Analysis Method: 8260C	Date Collected: 04/27/2022 15:10			
Sample wt/vol: 5(mL)	Date Analyzed: 04/30/2022 08:35			
Soil Aliquot Vol:	Dilution Factor: 1			
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)			
% Moisture:	Level: (low/med) Low			
Analysis Batch No.: 623887	Units: ug/L			

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	0.34	J	1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	1.5		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	2.2		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		77-120
460-00-4	4-Bromofluorobenzene (Surr)	96		73-120
1868-53-7	Dibromofluoromethane (Surr)	98		75-123
2037-26-5	Toluene-d8 (Surr)	102		80-120

Lab Name: Eurofins Buffalo	Job No.: 480-197248-1		
SDG No.:			
Client Sample ID: TRIP BLANK-042722	Lab Sample ID: <u>480-197248-13</u>		
Matrix: Water	Lab File ID: N3578.D		
Analysis Method: 8260C	Date Collected: 04/27/2022 00:00		
Sample wt/vol: 5(mL)	Date Analyzed: 04/30/2022 08:59		
Soil Aliquot Vol:	Dilution Factor: 1		
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)		
% Moisture:	Level: (low/med) Low		
Analysis Batch No.: 623887	Units: ug/L		

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

Lab Name: Eurofins Buffalo	Job No.: 480-197248-1					
SDG No.:						
Client Sample ID: TRIP BLANK-042722	Lab Sample ID: 480-197248-13					
Matrix: Water	Lab File ID: N3578.D					
Analysis Method: 8260C	Date Collected: 04/27/2022 00:00					
Sample wt/vol: 5(mL)	Date Analyzed: 04/30/2022 08:59					
Soil Aliquot Vol:	Dilution Factor: 1					
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)					
% Moisture:	Level: (low/med) Low					
Analysis Batch No.: <u>623887</u>	Units: ug/L					

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
1868-53-7	Dibromofluoromethane (Surr)	98		75-123
2037-26-5	Toluene-d8 (Surr)	95		80-120

Client Sample ID: PDI-1_0405	Lab Sample ID: 480-197248-1
Lab Name: Eurofins Buffalo	Job No.: 480-197248-1
SDG ID.:	
Matrix: Solid	Date Sampled: 04/27/2022 09:40
Reporting Basis: DRY	Date Received: 04/27/2022 16:40
% Solids: 86.6	

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7429-90-5	Aluminum	8810	12.1	5.3	mg/Kg			1	6010C
7440-36-0	Antimony	2.7	18.1	0.48	mg/Kg	J		1	6010C
7440-38-2	Arsenic	4.4	2.4	0.48	mg/Kg			1	6010C
7440-39-3	Barium	66.2	0.60	0.13	mg/Kg			1	6010C
7440-41-7	Beryllium	0.46	0.24	0.034	mg/Kg			1	6010C
7440-43-9	Cadmium	0.17	0.24	0.036	mg/Kg	J		1	6010C
7440-70-2	Calcium	33100	60.4	4.0	mg/Kg			1	6010C
7440-47-3	Chromium	9.5	0.60	0.24	mg/Kg			1	6010C
7440-48-4	Cobalt	5.7	0.60	0.060	mg/Kg			1	6010C
7440-50-8	Copper	18.2	1.2	0.25	mg/Kg			1	6010C
7439-89-6	Iron	16900	12.1	4.2	mg/Kg			1	6010C
7439-92-1	Lead	37.7	1.2	0.29	mg/Kg			1	6010C
7439-95-4	Magnesium	6160	24.2	1.1	mg/Kg			1	6010C
7439-96-5	Manganese	553	0.24	0.039	mg/Kg			1	6010C
7440-02-0	Nickel	10.3	6.0	0.28	mg/Kg			1	6010C
7440-09-7	Potassium	1300	36.2	24.2	mg/Kg			1	6010C
7782-49-2	Selenium	2.0	4.8	0.48	mg/Kg	J		1	6010C
7440-22-4	Silver	ND	0.72	0.24	mg/Kg			1	6010C
7440-23-5	Sodium	167	169	15.7	mg/Kg	J		1	6010C
7440-28-0	Thallium	ND	7.2	0.36	mg/Kg			1	6010C
7440-62-2	Vanadium	17.7	0.60	0.13	mg/Kg			1	6010C
7440-66-6	Zinc	50.2	2.4	0.77	mg/Kg			1	6010C
7439-97-6	Mercury	0.021	0.023	0.0053	mg/Kg	J		1	7471B

Client Sample ID: PDI-2_0203	Lab Sample ID: 480-197248-3
Lab Name: Eurofins Buffalo	Job No.: 480-197248-1
SDG ID.:	
Matrix: Solid	Date Sampled: 04/27/2022 11:05
Reporting Basis: DRY	Date Received: 04/27/2022 16:40
% Solids: 88.6	

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7429-90-5	Aluminum	9690	12.0	5.3	mg/Kg			1	6010C
7440-36-0	Antimony	1.5	17.9	0.48	mg/Kg	J		1	6010C
7440-38-2	Arsenic	2.7	2.4	0.48	mg/Kg			1	6010C
7440-39-3	Barium	50.0	0.60	0.13	mg/Kg			1	6010C
7440-41-7	Beryllium	0.33	0.24	0.033	mg/Kg			1	6010C
7440-43-9	Cadmium	0.16	0.24	0.036	mg/Kg	J		1	6010C
7440-70-2	Calcium	14900	59.8	3.9	mg/Kg			1	6010C
7440-47-3	Chromium	9.8	0.60	0.24	mg/Kg			1	6010C
7440-48-4	Cobalt	4.3	0.60	0.060	mg/Kg			1	6010C
7440-50-8	Copper	11.7	1.2	0.25	mg/Kg			1	6010C
7439-89-6	Iron	11500	12.0	4.2	mg/Kg			1	6010C
7439-92-1	Lead	14.0	1.2	0.29	mg/Kg			1	6010C
7439-95-4	Magnesium	5100	23.9	1.1	mg/Kg			1	6010C
7439-96-5	Manganese	361	0.24	0.038	mg/Kg			1	6010C
7440-02-0	Nickel	8.3	6.0	0.28	mg/Kg			1	6010C
7440-09-7	Potassium	1130	35.9	23.9	mg/Kg			1	6010C
7782-49-2	Selenium	1.2	4.8	0.48	mg/Kg	J		1	6010C
7440-22-4	Silver	ND	0.72	0.24	mg/Kg			1	6010C
7440-23-5	Sodium	246	167	15.6	mg/Kg			1	6010C
7440-28-0	Thallium	ND	7.2	0.36	mg/Kg			1	6010C
7440-62-2	Vanadium	18.2	0.60	0.13	mg/Kg			1	6010C
7440-66-6	Zinc	55.4	2.4	0.77	mg/Kg			1	6010C
7439-97-6	Mercury	0.031	0.022	0.0050	mg/Kg			1	7471B

Client Sample ID: PDI-7_0203	Lab Sample ID: 480-197248-5
Lab Name: Eurofins Buffalo	Job No.: 480-197248-1
SDG ID.:	
Matrix: Solid	Date Sampled: 04/27/2022 12:09
Reporting Basis: DRY	Date Received: 04/27/2022 16:40
% Solids: 83.1	

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7429-90-5	Aluminum	10600	12.4	5.5	mg/Kg			1	6010C
7440-36-0	Antimony	1.4	18.6	0.50	mg/Kg	J		1	6010C
7440-38-2	Arsenic	2.7	2.5	0.50	mg/Kg			1	6010C
7440-39-3	Barium	34.4	0.62	0.14	mg/Kg			1	6010C
7440-41-7	Beryllium	0.26	0.25	0.035	mg/Kg			1	6010C
7440-43-9	Cadmium	0.15	0.25	0.037	mg/Kg	J		1	6010C
7440-70-2	Calcium	18100	62.1	4.1	mg/Kg			1	6010C
7440-47-3	Chromium	9.1	0.62	0.25	mg/Kg			1	6010C
7440-48-4	Cobalt	3.0	0.62	0.062	mg/Kg			1	6010C
7440-50-8	Copper	10	1.2	0.26	mg/Kg			1	6010C
7439-89-6	Iron	9340	12.4	4.3	mg/Kg			1	6010C
7439-92-1	Lead	9.8	1.2	0.30	mg/Kg			1	6010C
7439-95-4	Magnesium	3510	24.9	1.2	mg/Kg			1	6010C
7439-96-5	Manganese	236	0.25	0.040	mg/Kg			1	6010C
7440-02-0	Nickel	6.4	6.2	0.29	mg/Kg			1	6010C
7440-09-7	Potassium	1060	37.3	24.9	mg/Kg			1	6010C
7782-49-2	Selenium	1.0	5.0	0.50	mg/Kg	J		1	6010C
7440-22-4	Silver	ND	0.75	0.25	mg/Kg			1	6010C
7440-23-5	Sodium	241	174	16.2	mg/Kg			1	6010C
7440-28-0	Thallium	ND	7.5	0.37	mg/Kg			1	6010C
7440-62-2	Vanadium	15.7	0.62	0.14	mg/Kg			1	6010C
7440-66-6	Zinc	39.2	2.5	0.80	mg/Kg			1	6010C
7439-97-6	Mercury	0.039	0.025	0.0057	mg/Kg			1	7471B

Client Sample ID: PDI-3_0203	Lab Sample ID: 480-197248-8
Lab Name: Eurofins Buffalo	Job No.: 480-197248-1
SDG ID.:	
Matrix: Solid	Date Sampled: 04/27/2022 13:45
Reporting Basis: DRY	Date Received: 04/27/2022 16:40
% Solids: 85.2	

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7429-90-5	Aluminum	4250	12.2	5.4	mg/Kg			1	6010C
7440-36-0	Antimony	0.77	18.3	0.49	mg/Kg	J		1	6010C
7440-38-2	Arsenic	3.9	2.4	0.49	mg/Kg			1	6010C
7440-39-3	Barium	24.9	0.61	0.13	mg/Kg			1	6010C
7440-41-7	Beryllium	0.20	0.24	0.034	mg/Kg	J		1	6010C
7440-43-9	Cadmium	0.059	0.24	0.037	mg/Kg	J		1	6010C
7440-70-2	Calcium	2160	61.2	4.0	mg/Kg			1	6010C
7440-47-3	Chromium	6.2	0.61	0.24	mg/Kg			1	6010C
7440-48-4	Cobalt	2.5	0.61	0.061	mg/Kg			1	6010C
7440-50-8	Copper	11.6	1.2	0.26	mg/Kg			1	6010C
7439-89-6	Iron	7200	12.2	4.3	mg/Kg			1	6010C
7439-92-1	Lead	3.4	1.2	0.29	mg/Kg			1	6010C
7439-95-4	Magnesium	1240	24.5	1.1	mg/Kg			1	6010C
7439-96-5	Manganese	207	0.24	0.039	mg/Kg			1	6010C
7440-02-0	Nickel	5.8	6.1	0.28	mg/Kg	J		1	6010C
7440-09-7	Potassium	827	36.7	24.5	mg/Kg			1	6010C
7782-49-2	Selenium	0.51	4.9	0.49	mg/Kg	J		1	6010C
7440-22-4	Silver	ND	0.73	0.24	mg/Kg			1	6010C
7440-23-5	Sodium	72.5	171	15.9	mg/Kg	J		1	6010C
7440-28-0	Thallium	ND	7.3	0.37	mg/Kg			1	6010C
7440-62-2	Vanadium	8.8	0.61	0.13	mg/Kg			1	6010C
7440-66-6	Zinc	12.7	2.4	0.78	mg/Kg			1	6010C
7439-97-6	Mercury	0.011	0.023	0.0054	mg/Kg	J		1	7471B

Client Sample ID: PDI-8_0405	Lab Sample ID: 480-197248-9
Lab Name: Eurofins Buffalo	Job No.: 480-197248-1
SDG ID.:	
Matrix: Solid	Date Sampled: 04/27/2022 14:09
Reporting Basis: DRY	Date Received: 04/27/2022 16:40
% Solids: 85.9	

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7429-90-5	Aluminum	8360	11.9	5.2	mg/Kg			1	6010C
7440-36-0	Antimony	1.2	17.8	0.47	mg/Kg	J		1	6010C
7440-38-2	Arsenic	2.7	2.4	0.47	mg/Kg			1	6010C
7440-39-3	Barium	56.4	0.59	0.13	mg/Kg			1	6010C
7440-41-7	Beryllium	0.33	0.24	0.033	mg/Kg			1	6010C
7440-43-9	Cadmium	0.18	0.24	0.036	mg/Kg	J		1	6010C
7440-70-2	Calcium	5980	59.4	3.9	mg/Kg			1	6010C
7440-47-3	Chromium	8.7	0.59	0.24	mg/Kg			1	6010C
7440-48-4	Cobalt	5.6	0.59	0.059	mg/Kg			1	6010C
7440-50-8	Copper	25.8	1.2	0.25	mg/Kg			1	6010C
7439-89-6	Iron	9440	11.9	4.2	mg/Kg			1	6010C
7439-92-1	Lead	12.7	1.2	0.28	mg/Kg			1	6010C
7439-95-4	Magnesium	1960	23.7	1.1	mg/Kg			1	6010C
7439-96-5	Manganese	481	0.24	0.038	mg/Kg			1	6010C
7440-02-0	Nickel	9.8	5.9	0.27	mg/Kg			1	6010C
7440-09-7	Potassium	1370	35.6	23.7	mg/Kg			1	6010C
7782-49-2	Selenium	0.76	4.7	0.47	mg/Kg	J		1	6010C
7440-22-4	Silver	ND	0.71	0.24	mg/Kg			1	6010C
7440-23-5	Sodium	122	166	15.4	mg/Kg	J		1	6010C
7440-28-0	Thallium	ND	7.1	0.36	mg/Kg			1	6010C
7440-62-2	Vanadium	13.8	0.59	0.13	mg/Kg			1	6010C
7440-66-6	Zinc	37.3	2.4	0.76	mg/Kg			1	6010C
7439-97-6	Mercury	0.025	0.022	0.0051	mg/Kg			1	7471B

Client Sample ID: PDI-6_0304	Lab Sample ID: 480-197248-11
Lab Name: Eurofins Buffalo	Job No.: 480-197248-1
SDG ID.:	
Matrix: Solid	Date Sampled: 04/27/2022 10:42
Reporting Basis: DRY	Date Received: 04/27/2022 16:40
% Solids: 84.9	

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7429-90-5	Aluminum	11900	12.2	5.4	mg/Kg			1	6010C
7440-36-0	Antimony	2.6	18.3	0.49	mg/Kg	J		1	6010C
7440-38-2	Arsenic	3.6	2.4	0.49	mg/Kg			1	6010C
7440-39-3	Barium	59.6	0.61	0.13	mg/Kg			1	6010C
7440-41-7	Beryllium	0.49	0.24	0.034	mg/Kg			1	6010C
7440-43-9	Cadmium	0.14	0.24	0.037	mg/Kg	J		1	6010C
7440-70-2	Calcium	22400	61.1	4.0	mg/Kg			1	6010C
7440-47-3	Chromium	13.6	0.61	0.24	mg/Kg			1	6010C
7440-48-4	Cobalt	6.1	0.61	0.061	mg/Kg			1	6010C
7440-50-8	Copper	14.2	1.2	0.26	mg/Kg			1	6010C
7439-89-6	Iron	16800	12.2	4.3	mg/Kg			1	6010C
7439-92-1	Lead	10.8	1.2	0.29	mg/Kg			1	6010C
7439-95-4	Magnesium	6360	24.4	1.1	mg/Kg			1	6010C
7439-96-5	Manganese	310	0.24	0.039	mg/Kg			1	6010C
7440-02-0	Nickel	13.7	6.1	0.28	mg/Kg			1	6010C
7440-09-7	Potassium	2220	36.7	24.4	mg/Kg			1	6010C
7782-49-2	Selenium	1.4	4.9	0.49	mg/Kg	J		1	6010C
7440-22-4	Silver	ND	0.73	0.24	mg/Kg			1	6010C
7440-23-5	Sodium	193	171	15.9	mg/Kg			1	6010C
7440-28-0	Thallium	ND	7.3	0.37	mg/Kg			1	6010C
7440-62-2	Vanadium	23.9	0.61	0.13	mg/Kg			1	6010C
7440-66-6	Zinc	37.9	2.4	0.78	mg/Kg			1	6010C
7439-97-6	Mercury	0.020	0.024	0.0056	mg/Kg	J		1	7471B

Lab Name: Eurofins Buffalo	Job No.: <u>480-197309-1</u>
SDG No.:	
Client Sample ID: PDI-4_0304	Lab Sample ID: <u>480-197309-1</u>
Matrix: Solid	Lab File ID: M03446.D
Analysis Method: 8260C	Date Collected: 04/28/2022 09:10
Sample wt/vol: 6.872(g)	Date Analyzed: 05/02/2022 16:31
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: ZB-624 (30) VOA ID: 0.25(mm)
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) Y pH:
% Moisture: 12.6 % Solids: 87.4	Level: (low/med) Low
Analysis Batch No.: 624070	Units: ug/Kg

79-34-5         1,1,2,2-Tetrachloroethane         ND         4.2         0.6           76-13-1         1,1,2-Trichloro-1,2,2-trifluoroethan         ND         4.2         0.9           79-00-5         1,1,2-Trichloroethane         ND         4.2         0.5           75-33-3         1,1-Dichloroethane         ND         4.2         0.5           75-35-4         1,1-Dichloroethane         ND         4.2         0.5           75-35-4         1,2-Trichloroethane         ND         4.2         0.5           120-82-1         1,2,4-Trichloroethane         ND         4.2         0.5           106-93-4         1,2-Dibromo-3-Chloropropane         ND         4.2         0.5           95-50-1         1,2-Dichlorobenzene         ND         4.2         0.2           107-06-2         1,2-Dichloropropane         ND         4.2         0.2           78-87-5         1,2-Dichlorobenzene         ND         4.2         0.2           106-46-7         1,4-Dichlorobenzene         ND         4.2         0.2           78-83-3         2-Butanone (MEK)         ND         21         1.           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         21         1.	CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1         1,1,2-Trichloro-1,2,2-trifluoroethan e         ND         4.2         0.99           79-00-5         1,1,2-Trichloroethane         ND         4.2         0.55           75-34-3         1,1-Dichloroethane         ND         4.2         0.55           75-35-4         1,1-Dichloroethane         ND         4.2         0.55           75-35-4         1,2,4-Trichlorobenzene         ND         4.2         0.52           96-12-8         1,2,4-Trichlorobenzene         ND         4.2         0.52           96-12-8         1,2-Dibromo-3-Chloropropane         ND         4.2         0.53           95-50-1         1,2-Dichloroethane         ND         4.2         0.33           107-06-2         1,2-Dichloroethane         ND         4.2         0.23           78-87-5         1,2-Dichloroptopane         ND         4.2         0.23           78-87-5         1,2-Dichlorobenzene         ND         4.2         0.23           106-46-7         1,4-Dichlorobenzene         ND         4.2         0.21           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         21         1.4           591-78-6         2-Bexanone         ND         4.2         0.21 </td <td>71-55-6</td> <td>1,1,1-Trichloroethane</td> <td>ND</td> <td></td> <td>4.2</td> <td>0.30</td>	71-55-6	1,1,1-Trichloroethane	ND		4.2	0.30
e         ND         4.2           79-00-5         1,1,2-Trichloroethane         1.2         J         4.2         0.55           75-34-3         1,1-Dichloroethane         1.2         J         4.2         0.55           75-35-4         1,1-Dichloroethane         ND         4.2         0.55           120-82-1         1,2,4-Trichlorobenzene         ND         4.2         0.21           96-12-8         1,2-Dibromo-3-Chloropropane         ND         4.2         0.21           106-93-4         1,2-Dibromo-3-Chloropropane         ND         4.2         0.31           107-06-2         1,2-Dichlorobenzene         ND         4.2         0.21           107-06-2         1,2-Dichlorobenzene         ND         4.2         0.21           106-46-7         1,4-Dichlorobenzene         ND         4.2         0.21           106-46-7         1,4-Dichlorobenzene         ND         4.2         0.21           106-46-7         1,4-Dichlorobenzene         ND         2.1         1.1           591-78-6         2-Hexanone         ND         2.1         1.1           67-64-1         Acetone         ND         2.1         1.1           75-27-4         Brom	79-34-5	1,1,2,2-Tetrachloroethane	ND		4.2	0.68
79-00-5       1,1,2-Trichloroethane       ND       4.2       0.5         75-34-3       1,1-Dichloroethane       ND       4.2       0.5         75-35-4       1,1-Dichloroethane       ND       4.2       0.5         75-35-4       1,2-Dichloroethane       ND       4.2       0.5         120-82-1       1,2-Trichlorobenzene       ND       4.2       0.2         96-12-8       1,2-Dibromo-3-Chloropropane       ND       4.2       0.2         95-50-1       1,2-Dichlorobenzene       ND       4.2       0.3         107-06-2       1,2-Dichlorobenzene       ND       4.2       0.2         78-87-5       1,2-Dichlorobenzene       ND       4.2       0.2         106-46-7       1,4-Dichlorobenzene       ND       4.2       0.2         106-46-7       1,4-Dichlorobenzene       ND       2.1       1.1         591-78-6       2-Hexanone       ND       2.1       1.1         108-10-1       4-Methyl-2-pentanone (MIBK)       ND       2.1       1.1         575-27-4       Bromodichloromethane       ND       4.2       0.2         75-25-2       Bromodichloromethane       ND       4.2       0.5         75-2	76-13-1		ND		4.2	0.95
75-35-4         1,1-Dichloroethene         ND         4.2         0.53           120-82-1         1,2,4-Trichlorobenzene         ND         4.2         0.22           96-12-8         1,2-Dibromo-3-Chloropropane         ND         4.2         0.23           106-93-4         1,2-Dibromo-3-Chloropropane         ND         4.2         0.33           106-93-4         1,2-Dichlorobenzene         ND         4.2         0.33           107-06-2         1,2-Dichlorobenzene         ND         4.2         0.23           107-06-2         1,2-Dichlorobenzene         ND         4.2         0.23           541-73-1         1,3-Dichlorobenzene         ND         4.2         0.23           106-46-7         1,4-Dichlorobenzene         ND         4.2         0.51           78-93-3         2-Butanone (MEK)         ND         21         1.3           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         21         1.4           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         21         3.4           71-43-2         Benzene         ND         4.2         0.24           75-27-4         Bromodichloromethane         ND         4.2         0.3 <t< td=""><td>79-00-5</td><td>1,1,2-Trichloroethane</td><td>ND</td><td></td><td>4.2</td><td>0.54</td></t<>	79-00-5	1,1,2-Trichloroethane	ND		4.2	0.54
120-82-1         1,2,4-Trichlorobenzene         ND         4.2         0.23           96-12-8         1,2-Dibromo-3-Chloropropane         ND         4.2         2.3           106-93-4         1,2-Dibromothane         ND         4.2         0.53           95-50-1         1,2-Dichlorobenzene         ND         4.2         0.33           107-06-2         1,2-Dichloroethane         ND         4.2         0.23           78-87-5         1,2-Dichloropropane         ND         4.2         0.23           107-06-2         1,2-Dichloropropane         ND         4.2         0.23           107-06-7         1,2-Dichloropropane         ND         4.2         0.23           106-46-7         1,4-Dichlorobenzene         ND         4.2         0.23           106-46-7         1,4-Dichlorobenzene         ND         21         1.3           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         21         1.3           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         4.2         0.53           17-43-2         Benzene         ND         4.2         0.54           75-25-2         Bromodichloromethane         ND         4.2         0.54	75-34-3	1,1-Dichloroethane	1.2	J	4.2	0.51
96-12-8         1,2-Dibromo-3-Chloropropane         ND         4.2         2.1           106-93-4         1,2-Dibromoethane         ND         4.2         0.53           95-50-1         1,2-Dichlorobenzene         ND         4.2         0.33           107-06-2         1,2-Dichlorobenzene         ND         4.2         0.33           107-06-2         1,2-Dichloropopane         ND         4.2         0.23           541-73-1         1,3-Dichlorobenzene         ND         4.2         0.23           106-46-7         1,4-Dichlorobenzene         ND         4.2         0.23           106-46-7         1,4-Dichlorobenzene         ND         4.2         0.23           108-10-1         4-Methyl-2-pentanone (MEK)         ND         21         1.1           591-78-6         2-Hexanone         ND         21         1.1           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         21         1.1           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         4.2         0.21           17-43-2         Benzene         ND         4.2         0.21         3.1           75-27-4         Bromodichloromethane         ND         4.2         0.3	75-35-4	1,1-Dichloroethene	ND		4.2	0.51
106-93-4         1,2-Dibromethane         ND         4.2         0.5           95-50-1         1,2-Dichlorobenzene         ND         4.2         0.3           107-06-2         1,2-Dichlorobenzene         ND         4.2         0.2           78-87-5         1,2-Dichloropropane         ND         4.2         0.2           541-73-1         1,3-Dichlorobenzene         ND         4.2         0.2           541-73-1         1,4-Dichlorobenzene         ND         4.2         0.2           106-46-7         1,4-Dichlorobenzene         ND         4.2         0.5           78-93-3         2-Butanone (MEK)         ND         21         1.1           591-78-6         2-Hexanone         ND         21         1.1           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         21         1.1           67-64-1         Acetone         ND         4.2         0.2           71-43-2         Benzene         ND         4.2         0.2           75-27-4         Bromodichloromethane         ND         4.2         0.3           75-15-0         Carbon disulfide         ND         4.2         0.3           75-15-0         Carbon tetrachloride	120-82-1	1,2,4-Trichlorobenzene	ND		4.2	0.25
95-50-1         1,2-Dichlorobenzene         ND         4.2         0.33           107-06-2         1,2-Dichloroethane         ND         4.2         0.23           78-87-5         1,2-Dichloropropane         ND         4.2         0.23           541-73-1         1,3-Dichlorobenzene         ND         4.2         0.23           106-46-7         1,4-Dichlorobenzene         ND         4.2         0.53           78-93-3         2-Butanone (MEK)         ND         21         1.3           591-78-6         2-Hexanone         ND         21         1.4           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         21         1.4           67-64-1         Acetone         ND         4.2         0.21           71-43-2         Benzene         ND         4.2         0.21           75-27-4         Bromoform         ND         4.2         0.33           75-15-0         Carbon disulfide         ND         4.2         0.33           75-15-0         Carbon disulfide         ND         4.2         0.33           75-00-3         Chlorobenzene         ND         4.2         0.51           75-00-3         Chlorobenzene         ND<		1,2-Dibromo-3-Chloropropane	ND		4.2	2.1
107-06-2       1,2-Dichlorobthane       ND       4.2       0.2         78-87-5       1,2-Dichloropropane       ND       4.2       0.2         541-73-1       1,3-Dichlorobenzene       ND       4.2       0.2         106-46-7       1,4-Dichlorobenzene       ND       4.2       0.5         78-87-5       2-Butanone (MEK)       ND       21       1.         591-78-6       2-Hexanone       ND       21       2.         108-10-1       4-Methyl-2-pentanone (MIBK)       ND       21       1.         67-64-1       Acetone       ND       21       3.         71-43-2       Benzene       ND       4.2       0.21         75-27-4       Bromodichloromethane       ND       4.2       0.21         75-25-2       Bromoform       ND       4.2       0.3         75-15-0       Carbon disulfide       ND       4.2       0.3         75-25-2       Bromothane       ND       4.2       0.3         75-15-0       Carbon disulfide       ND       4.2       0.3         75-15-0       Carbon disulfide       ND       4.2       0.3         75-00-3       Chlorobenzene       ND       4.2 <td>106-93-4</td> <td>1,2-Dibromoethane</td> <td>ND</td> <td></td> <td>4.2</td> <td>0.53</td>	106-93-4	1,2-Dibromoethane	ND		4.2	0.53
78-87-5       1,2-Dichloropropane       ND       4.2       2.1         541-73-1       1,3-Dichlorobenzene       ND       4.2       0.21         106-46-7       1,4-Dichlorobenzene       ND       4.2       0.53         78-87-5       2-Butanone (MEK)       ND       21       1.4         591-78-6       2-Hexanone       ND       21       1.4         591-78-6       2-Hexanone       ND       21       1.4         67-64-1       Acetone       ND       21       3.3         71-43-2       Benzene       ND       4.2       0.21         75-27-4       Bromodichloromethane       ND       4.2       0.21         75-27-4       Bromodichloromethane       ND       4.2       0.53         75-25-2       Bromodichloromethane       ND       4.2       0.53         75-25-2       Bromodethane       ND       4.2       0.3         75-15-0       Carbon disulfide       ND       4.2       0.3         75-15-0       Carbon tetrachloride       ND       4.2       0.51         75-00-3       Chlorobenzene       ND       4.2       0.24         76-66-3       Chloroform       ND       4.	95-50-1	1,2-Dichlorobenzene	ND		4.2	0.33
541-73-1         1,3-Dichlorobenzene         ND         4.2         0.23           106-46-7         1,4-Dichlorobenzene         ND         4.2         0.53           78-93-3         2-Butanone (MEK)         ND         21         1.4           591-78-6         2-Hexanone         ND         21         2.5           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         21         3.5           71-43-2         Benzene         ND         4.2         0.25           75-27-4         Bromodichloromethane         ND         4.2         0.25           75-27-4         Bromodichloromethane         ND         4.2         0.25           75-25-2         Bromodichloromethane         ND         4.2         0.55           75-25-2         Bromodichloromethane         ND         4.2         0.55           75-25-2         Bromomethane         ND         4.2         0.55           75-15-0         Carbon disulfide         ND         4.2         0.55           75-25-2         Carbon tetrachloride         ND         4.2         0.55           75-15-0         Carbon disulfide         ND         4.2         0.55           75-00-3         Chloroet	107-06-2	1,2-Dichloroethane	ND		4.2	0.21
106-46-7         1,4-Dichlorobenzene         ND         4.2         0.53           78-93-3         2-Butanone (MEK)         ND         21         1.3           591-78-6         2-Hexanone         ND         21         2.3           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         21         1.4           67-64-1         Acetone         ND         21         3.4           71-43-2         Benzene         ND         4.2         0.21           75-27-4         Bromodichloromethane         ND         4.2         0.51           75-25-2         Bromoform         ND         4.2         0.3           75-15-0         Carbon disulfide         ND         4.2         0.3           75-15-0         Carbon disulfide         ND         4.2         0.3           75-07-3         Chlorobenzene         ND         4.2         0.4           108-90-7         Chlorobenzene         ND         4.2         0.5           75-00-3         Chlorobenzene         ND         4.2         0.2           74-87-3         Chloromethane         ND         4.2         0.2           74-87-3         Chloromethane         ND         4.2	78-87-5	1,2-Dichloropropane	ND		4.2	2.1
78-93-3         2-Butanone (MEK)         ND         21         1.1           591-78-6         2-Hexanone         ND         21         2.1           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         21         1.4           67-64-1         Acetone         ND         21         3.1           71-43-2         Benzene         ND         4.2         0.21           75-27-4         Bromodichloromethane         ND         4.2         0.57           75-25-2         Bromoform         ND         4.2         0.3           75-15-0         Carbon disulfide         ND         4.2         0.3           75-15-0         Carbon disulfide         ND         4.2         0.3           75-15-0         Carbon disulfide         ND         4.2         0.3           75-15-0         Carbon tetrachloride         ND         4.2         0.3           75-05-3         Carbon tetrachloride         ND         4.2         0.5           75-06-3         Chlorobenzene         ND         4.2         0.5           74-87-3         Chloroform         ND         4.2         0.2           156-59-2         cis-1, 2-Dichloroethene         12	541-73-1	1,3-Dichlorobenzene	ND		4.2	0.21
591-78-6         2-Hexanone         ND         21         2.1           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         21         1.4           67-64-1         Acetone         ND         21         3.4           71-43-2         Benzene         ND         4.2         0.20           75-27-4         Bromodichloromethane         ND         4.2         0.21           75-25-2         Bromodethane         ND         4.2         0.3           75-25-2         Bromomethane         ND         4.2         0.3           75-15-0         Carbon disulfide         ND         4.2         0.3           75-15-0         Carbon tetrachloride         ND         4.2         0.3           75-15-0         Carbon tetrachloride         ND         4.2         0.3           75-15-0         Carbon tetrachloride         ND         4.2         0.3           75-00-3         Chlorobenzene         ND         4.2         0.5           75-00-3         Chloroform         ND         4.2         0.2           74-87-3         Chloroform         ND         4.2         0.2           74-87-3         Chloromethane         12         4.2 <td>106-46-7</td> <td>1,4-Dichlorobenzene</td> <td>ND</td> <td></td> <td>4.2</td> <td>0.58</td>	106-46-7	1,4-Dichlorobenzene	ND		4.2	0.58
108-10-1       4-Methyl-2-pentanone (MIBK)       ND       21       1         67-64-1       Acetone       ND       21       3.1         71-43-2       Benzene       ND       4.2       0.20         75-27-4       Bromodichloromethane       ND       4.2       0.50         75-25-2       Bromoform       ND       4.2       0.3         75-25-2       Bromomethane       ND       4.2       0.3         75-15-0       Carbon disulfide       ND       4.2       0.3         75-15-0       Carbon tetrachloride       ND       4.2       0.3         75-00-3       Chlorobenzene       ND       4.2       0.4         108-90-7       Chlorobenzene       ND       4.2       0.5         75-00-3       Chloroform       ND       4.2       0.2         67-66-3       Chloroform       ND       4.2       0.2         74-87-3       Chloromethane       ND       4.2       0.2         156-59-2       cis-1, 2-Dichloroethene       12       4.2       0.5         10061-01-5       cis-1, 3-Dichloropropene       ND       4.2       0.5         10061-01-5       cis-1, 3-Dichloropropene       ND	78-93-3	2-Butanone (MEK)	ND		21	1.5
67-64-1         Acetone         ND         21         3.4           71-43-2         Benzene         ND         4.2         0.2           75-27-4         Bromodichloromethane         ND         4.2         0.5           75-27-4         Bromodichloromethane         ND         4.2         0.5           75-27-4         Bromodichloromethane         ND         4.2         0.5           75-25-2         Bromoform         ND         4.2         0.3           74-83-9         Bromomethane         ND         4.2         0.3           75-15-0         Carbon disulfide         ND         4.2         0.3           75-15-0         Carbon tetrachloride         ND         4.2         0.3           75-15-0         Carbon tetrachloride         ND         4.2         0.3           75-07-3         Chlorobenzene         ND         4.2         0.5           75-00-3         Chloroform         ND         4.2         0.2           67-66-3         Chloroferm         ND         4.2         0.2           74-87-3         Chloromethane         ND         4.2         0.5           10061-01-5         cis-1,3-Dichloropropene         ND         4.	591-78-6	2-Hexanone	ND		21	2.1
71-43-2         Benzene         ND         4.2         0.24           75-27-4         Bromodichloromethane         ND         4.2         0.54           75-27-4         Bromodichloromethane         ND         4.2         0.54           75-25-2         Bromoform         ND         4.2         0.33           74-83-9         Bromomethane         ND         4.2         0.33           75-15-0         Carbon disulfide         ND         4.2         0.33           56-23-5         Carbon tetrachloride         ND         4.2         0.44           108-90-7         Chlorobenzene         ND         4.2         0.54           75-00-3         Chloroethane         ND         4.2         0.54           67-66-3         Chloroform         ND         4.2         0.24           74-87-3         Chloromethane         ND         4.2         0.24           156-59-2         cis-1,2-Dichloroethene         12         4.2         0.55           10061-01-5         cis-1,3-Dichloropropene         ND         4.2         0.54           10-82-7         Cyclohexane         ND         4.2         0.54           124-48-1         Dibromochloromethane	108-10-1	4-Methyl-2-pentanone (MIBK)	ND		21	1.4
75-27-4         Bromodichloromethane         ND         4.2         0.5           75-25-2         Bromoform         ND         4.2         2.3           74-83-9         Bromomethane         ND         4.2         0.3           75-15-0         Carbon disulfide         ND         4.2         0.3           75-25-2         Carbon disulfide         ND         4.2         0.3           75-15-0         Carbon disulfide         ND         4.2         0.4           108-90-7         Chlorobenzene         ND         4.2         0.4           108-90-7         Chlorobenzene         ND         4.2         0.5           75-00-3         Chloroform         ND         4.2         0.2           67-66-3         Chloroform         ND         4.2         0.2           74-87-3         Chloromethane         ND         4.2         0.2           156-59-2         cis-1,2-Dichloroethene         12         4.2         0.5           10061-01-5         cis-1,3-Dichloropropene         ND         4.2         0.5           10061-01-5         cis-1,3-Dichloropropene         ND         4.2         0.5           10-82-7         Cyclohexane         ND	67-64-1	Acetone	ND		21	3.5
75-25-2BromoformND4.22.174-83-9BromomethaneND4.20.375-15-0Carbon disulfideND4.22.156-23-5Carbon tetrachlorideND4.20.4108-90-7ChlorobenzeneND4.20.575-00-3ChloroethaneND4.20.967-66-3ChloroformND4.20.274-87-3ChloromethaneND4.20.2156-59-2cis-1,2-Dichloroethene124.20.510061-01-5cis-1,3-DichloropropeneND4.20.5110-82-7CyclohexaneND4.20.5124-48-1DibromochloromethaneND4.20.5	71-43-2	Benzene	ND		4.2	0.20
74-83-9         Bromomethane         ND         4.2         0.3           75-15-0         Carbon disulfide         ND         4.2         2.3           56-23-5         Carbon tetrachloride         ND         4.2         0.4           108-90-7         Chlorobenzene         ND         4.2         0.5           75-00-3         Chloroethane         ND         4.2         0.9           67-66-3         Chloroform         ND         4.2         0.2           74-87-3         Chloromethane         ND         4.2         0.2           156-59-2         cis-1,2-Dichloroethene         12         4.2         0.5           10061-01-5         cis-1,3-Dichloropropene         ND         4.2         0.5           110-82-7         Cyclohexane         ND         4.2         0.5           124-48-1         Dibromochloromethane         ND         4.2         0.5	75-27-4	Bromodichloromethane	ND		4.2	0.56
75-15-0Carbon disulfideND4.22.156-23-5Carbon tetrachlorideND4.20.40108-90-7ChlorobenzeneND4.20.5075-00-3ChloroethaneND4.20.9067-66-3ChloroformND4.20.2074-87-3ChloromethaneND4.20.20156-59-2cis-1,2-Dichloroethene124.20.5010061-01-5cis-1,3-DichloropropeneND4.20.50110-82-7CyclohexaneND4.20.50124-48-1DibromochloromethaneND4.20.50		Bromoform	ND		4.2	2.1
56-23-5         Carbon tetrachloride         ND         4.2         0.4           108-90-7         Chlorobenzene         ND         4.2         0.5           75-00-3         Chloroethane         ND         4.2         0.9           67-66-3         Chloromethane         ND         4.2         0.2           74-87-3         Chloromethane         ND         4.2         0.2           156-59-2         cis-1,2-Dichloroethene         12         4.2         0.5           10061-01-5         cis-1,3-Dichloropropene         ND         4.2         0.5           110-82-7         Cyclohexane         ND         4.2         0.5           124-48-1         Dibromochloromethane         ND         4.2         0.5	74-83-9	Bromomethane	ND		4.2	0.37
108-90-7         Chlorobenzene         ND         4.2         0.5           75-00-3         Chloroethane         ND         4.2         0.9           67-66-3         Chloroform         ND         4.2         0.2           74-87-3         Chloromethane         ND         4.2         0.2           156-59-2         cis-1,2-Dichloroethene         12         4.2         0.5           10061-01-5         cis-1,3-Dichloropropene         ND         4.2         0.5           110-82-7         Cyclohexane         ND         4.2         0.5           124-48-1         Dibromochloromethane         ND         4.2         0.5	75-15-0	Carbon disulfide	ND		4.2	2.1
75-00-3         Chloroethane         ND         4.2         0.94           67-66-3         Chloroform         ND         4.2         0.24           74-87-3         Chloromethane         ND         4.2         0.24           156-59-2         cis-1,2-Dichloroethene         12         4.2         0.55           10061-01-5         cis-1,3-Dichloropropene         ND         4.2         0.55           110-82-7         Cyclohexane         ND         4.2         0.55           124-48-1         Dibromochloromethane         ND         4.2         0.55		Carbon tetrachloride	ND		4.2	0.40
67-66-3         Chloroform         ND         4.2         0.2           74-87-3         Chloromethane         ND         4.2         0.2           156-59-2         cis-1,2-Dichloroethene         12         4.2         0.5           10061-01-5         cis-1,3-Dichloropropene         ND         4.2         0.6           110-82-7         Cyclohexane         ND         4.2         0.5           124-48-1         Dibromochloromethane         ND         4.2         0.5	108-90-7	Chlorobenzene	ND		4.2	0.55
74-87-3         Chloromethane         ND         4.2         0.2           156-59-2         cis-1,2-Dichloroethene         12         4.2         0.5           10061-01-5         cis-1,3-Dichloropropene         ND         4.2         0.6           110-82-7         Cyclohexane         ND         4.2         0.5           124-48-1         Dibromochloromethane         ND         4.2         0.5	75-00-3	Chloroethane	ND		4.2	0.94
156-59-2       cis-1,2-Dichloroethene       12       4.2       0.53         10061-01-5       cis-1,3-Dichloropropene       ND       4.2       0.60         110-82-7       Cyclohexane       ND       4.2       0.53         124-48-1       Dibromochloromethane       ND       4.2       0.55	67-66-3	Chloroform	ND		4.2	0.26
10061-01-5         cis-1,3-Dichloropropene         ND         4.2         0.60           110-82-7         Cyclohexane         ND         4.2         0.50           124-48-1         Dibromochloromethane         ND         4.2         0.50	74-87-3	Chloromethane	ND		4.2	0.25
110-82-7         Cyclohexane         ND         4.2         0.58           124-48-1         Dibromochloromethane         ND         4.2         0.55	156-59-2	cis-1,2-Dichloroethene	12		4.2	0.53
124-48-1         Dibromochloromethane         ND         4.2         0.5	10061-01-5	cis-1,3-Dichloropropene	ND		4.2	0.60
	110-82-7	Cyclohexane	ND		4.2	0.58
75-71-8DichlorodifluoromethaneND4.20.34	124-48-1	Dibromochloromethane	ND		4.2	0.53
	75-71-8	Dichlorodifluoromethane	ND		4.2	0.34

Lab Name: Eurofins Buffalo	Job No.: <u>480-197309-1</u>
SDG No.:	
Client Sample ID: PDI-4_0304	Lab Sample ID: <u>480-197309-1</u>
Matrix: Solid	Lab File ID: M03446.D
Analysis Method: 8260C	Date Collected: 04/28/2022 09:10
Sample wt/vol: 6.872(g)	Date Analyzed: 05/02/2022 16:31
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: ZB-624 (30) VOA ID: 0.25(mm)
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) Y pH:
% Moisture: 12.6 % Solids: 87.4	Level: (low/med) Low
Analysis Batch No.: 624070	Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	ND		4.2	0.29
98-82-8	Isopropylbenzene	ND		4.2	0.63
79-20-9	Methyl acetate	ND		21	2.5
1634-04-4	Methyl tert-butyl ether	ND		4.2	0.41
108-87-2	Methylcyclohexane	ND		4.2	0.63
75-09-2	Methylene Chloride	ND		4.2	1.9
100-42-5	Styrene	ND		4.2	0.21
127-18-4	Tetrachloroethene	ND		4.2	0.56
108-88-3	Toluene	ND		4.2	0.31
156-60-5	trans-1,2-Dichloroethene	0.68	J	4.2	0.43
10061-02-6	trans-1,3-Dichloropropene	ND		4.2	1.8
79-01-6	Trichloroethene	ND		4.2	0.92
75-69-4	Trichlorofluoromethane	ND		4.2	0.39
75-01-4	Vinyl chloride	ND		4.2	0.51
1330-20-7	Xylenes, Total	ND		8.3	0.70

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		64-126
460-00-4	4-Bromofluorobenzene (Surr)	91		72-126
1868-53-7	Dibromofluoromethane (Surr)	106		60-140
2037-26-5	Toluene-d8 (Surr)	99		71-125

Lab Name: Eurofins Buffalo	Job No.: 480-197309-1
SDG No.:	
Client Sample ID: PDI-4_GW	Lab Sample ID: <u>480-197309-2</u>
Matrix: Water	Lab File ID: T9151.D
Analysis Method: 8260C	Date Collected: 04/28/2022 09:26
Sample wt/vol: 5(mL)	Date Analyzed: 05/06/2022 18:49
Soil Aliquot Vol:	Dilution Factor: 20
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) N pH: 7.0
<pre>% Moisture: % Solids:</pre>	Level: (low/med) Low
Analysis Batch No.: 624854	Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	UJ	20	16
79-34-5	1,1,2,2-Tetrachloroethane	ND	UJ	20	4.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan e	ND	UJ	20	6.2
79-00-5	1,1,2-Trichloroethane	ND	UJ	20	4.6
75-34-3	1,1-Dichloroethane	410	J	20	7.6
75-35-4	1,1-Dichloroethene	13	J	20	5.8
120-82-1	1,2,4-Trichlorobenzene	ND	UJ	20	8.2
96-12-8	1,2-Dibromo-3-Chloropropane	ND	UJ	20	7.8
106-93-4	1,2-Dibromoethane	ND	UJ	20	15
95-50-1	1,2-Dichlorobenzene	ND	UJ	20	16
107-06-2	1,2-Dichloroethane	ND	UJ	20	4.2
78-87-5	1,2-Dichloropropane	ND	UJ	20	14
541-73-1	1,3-Dichlorobenzene	ND	UJ	20	16
106-46-7	1,4-Dichlorobenzene	ND	UJ	20	17
78-93-3	2-Butanone (MEK)	ND	UJ	200	26
591-78-6	2-Hexanone	ND	UJ	100	25
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	UJ	100	42
67-64-1	Acetone	73	J	200	60
71-43-2	Benzene	ND	UJ	20	8.2
75-27-4	Bromodichloromethane	ND	UJ	20	7.8
75-25-2	Bromoform	ND	UJ	20	5.2
74-83-9	Bromomethane	ND	UJ	20	14
75-15-0	Carbon disulfide	ND	UJ	20	3.8
56-23-5	Carbon tetrachloride	ND	UJ	20	5.4
108-90-7	Chlorobenzene	ND	UJ	20	15
75-00-3	Chloroethane	ND	UJ	20	6.4
67-66-3	Chloroform	ND	UJ	20	6.8
74-87-3	Chloromethane	ND	UJ	20	7.0
156-59-2	cis-1,2-Dichloroethene	1400	J	20	16
10061-01-5	cis-1,3-Dichloropropene	ND	UJ	20	7.2
110-82-7	Cyclohexane	ND	UJ	20	3.6
124-48-1	Dibromochloromethane	ND	UJ	20	6.4
75-71-8	Dichlorodifluoromethane	ND	UJ	20	14

Lab Name: Eurofins Buffalo	Job No.: 480-197309-1
SDG No.:	
Client Sample ID: PDI-4_GW	Lab Sample ID: <u>480-197309-2</u>
Matrix: Water	Lab File ID: T9151.D
Analysis Method: 8260C	Date Collected: 04/28/2022 09:26
Sample wt/vol: 5(mL)	Date Analyzed: 05/06/2022 18:49
Soil Aliquot Vol:	Dilution Factor: 20
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) N pH: 7.0
% Moisture: % Solids:	Level: (low/med) Low
Analysis Batch No.: 624854	Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	ND	UJ	20	15
98-82-8	Isopropylbenzene	ND	UJ	20	16
79-20-9	Methyl acetate	ND	UJ	50	26
1634-04-4	Methyl tert-butyl ether	ND	UJ	20	3.2
108-87-2	Methylcyclohexane	ND	UJ	20	3.2
75-09-2	Methylene Chloride	ND	UJ	20	8.8
100-42-5	Styrene	ND	UJ	20	15
127-18-4	Tetrachloroethene	ND	UJ	20	7.2
108-88-3	Toluene	ND	UJ	20	10
156-60-5	trans-1,2-Dichloroethene	37	J	20	18
10061-02-6	trans-1,3-Dichloropropene	ND	UJ	20	7.4
79-01-6	Trichloroethene	11	J	20	9.2
75-69-4	Trichlorofluoromethane	ND	UJ	20	18
75-01-4	Vinyl chloride	250	J	20	18
1330-20-7	Xylenes, Total	ND	UJ	40	13

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	89		73-120
1868-53-7	Dibromofluoromethane (Surr)	96		75-123
2037-26-5	Toluene-d8 (Surr)	99		80-120

Lab Name: Eurofins Buffalo	Job No.: 480-197309-1
SDG No.:	
Client Sample ID: PDI-9_0203	Lab Sample ID: <u>480-197309-3</u>
Matrix: Solid	Lab File ID: M03447.D
Analysis Method: 8260C	Date Collected: 04/28/2022 10:09
Sample wt/vol: 7.334(g)	Date Analyzed: 05/02/2022 16:55
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: ZB-624 (30) VOA ID: 0.25(mm)
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) Y pH:
% Moisture: 8.8 % Solids: 91.2	Level: (low/med) Low
Analysis Batch No.: 624070	Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		3.7	0.27
79-34-5	1,1,2,2-Tetrachloroethane	ND		3.7	0.61
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan e	ND		3.7	0.85
79-00-5	1,1,2-Trichloroethane	ND		3.7	0.49
75-34-3	1,1-Dichloroethane	ND		3.7	0.46
75-35-4	1,1-Dichloroethene	ND		3.7	0.46
120-82-1	1,2,4-Trichlorobenzene	ND		3.7	0.23
96-12-8	1,2-Dibromo-3-Chloropropane	ND		3.7	1.9
106-93-4	1,2-Dibromoethane	ND		3.7	0.48
95-50-1	1,2-Dichlorobenzene	ND		3.7	0.29
107-06-2	1,2-Dichloroethane	ND		3.7	0.19
78-87-5	1,2-Dichloropropane	ND		3.7	1.9
541-73-1	1,3-Dichlorobenzene	ND		3.7	0.19
106-46-7	1,4-Dichlorobenzene	ND		3.7	0.52
78-93-3	2-Butanone (MEK)	ND		19	1.4
591-78-6	2-Hexanone	ND		19	1.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		19	1.2
67-64-1	Acetone	13	J	19	3.1
71-43-2	Benzene	ND		3.7	0.18
75-27-4	Bromodichloromethane	ND		3.7	0.50
75-25-2	Bromoform	ND		3.7	1.9
74-83-9	Bromomethane	ND		3.7	0.34
75-15-0	Carbon disulfide	ND		3.7	1.9
56-23-5	Carbon tetrachloride	ND		3.7	0.36
108-90-7	Chlorobenzene	ND		3.7	0.49
75-00-3	Chloroethane	ND		3.7	0.84
67-66-3	Chloroform	ND		3.7	0.23
74-87-3	Chloromethane	ND		3.7	0.23
156-59-2	cis-1,2-Dichloroethene	43		3.7	0.48
10061-01-5	cis-1,3-Dichloropropene	ND		3.7	0.54
110-82-7	Cyclohexane	ND		3.7	0.52
124-48-1	Dibromochloromethane	ND		3.7	0.48
75-71-8	Dichlorodifluoromethane	ND		3.7	0.31

Lab Name: Eurofins Buffalo	Job No.: 480-197309-1		
SDG No.:			
Client Sample ID: PDI-9_0203	Lab Sample ID: <u>480-197309-3</u>		
Matrix: Solid	Lab File ID: M03447.D		
Analysis Method: 8260C	Date Collected: 04/28/2022 10:09		
Sample wt/vol: 7.334(g)	Date Analyzed: 05/02/2022 16:55		
Soil Aliquot Vol:	Dilution Factor: 1		
Soil Extract Vol.:	GC Column: ZB-624 (30) VOA ID: 0.25(mm)		
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) Y pH:		
% Moisture: 8.8 % Solids: 91.2	Level: (low/med) Low		
Analysis Batch No.: 624070	Units: ug/Kg		

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	ND		3.7	0.26
98-82-8	Isopropylbenzene	ND		3.7	0.56
79-20-9	Methyl acetate	ND		19	2.3
1634-04-4	Methyl tert-butyl ether	ND		3.7	0.37
108-87-2	Methylcyclohexane	ND		3.7	0.57
75-09-2	Methylene Chloride	ND		3.7	1.7
100-42-5	Styrene	ND		3.7	0.19
127-18-4	Tetrachloroethene	1.2	J	3.7	0.50
108-88-3	Toluene	ND		3.7	0.28
156-60-5	trans-1,2-Dichloroethene	1.4	J	3.7	0.39
10061-02-6	trans-1,3-Dichloropropene	ND		3.7	1.6
79-01-6	Trichloroethene	ND		3.7	0.82
75-69-4	Trichlorofluoromethane	ND		3.7	0.35
75-01-4	Vinyl chloride	ND		3.7	0.46
1330-20-7	Xylenes, Total	ND		7.5	0.63

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		64-126
460-00-4	4-Bromofluorobenzene (Surr)	97		72-126
1868-53-7	Dibromofluoromethane (Surr)	107		60-140
2037-26-5	Toluene-d8 (Surr)	95		71-125

Lab Name: Eurofins Buffalo	Job No.: <u>480-197309-1</u>		
SDG No.:			
Client Sample ID: PDI-9_GW	Lab Sample ID: <u>480-197309-4</u>		
Matrix: Water	Lab File ID: T9152.D		
Analysis Method: 8260C	Date Collected: 04/28/2022 10:30		
Sample wt/vol: 5(mL)	Date Analyzed: 05/06/2022 19:12		
Soil Aliquot Vol:	Dilution Factor: 2		
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)		
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) N pH: 7.0		
% Moisture: % Solids:	Level: (low/med) Low		
Analysis Batch No.: 624854	Units: ug/L		

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	UJ	2.0	1.6
79-34-5	1,1,2,2-Tetrachloroethane	ND	UJ	2.0	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan e	ND	UJ	2.0	0.62
79-00-5	1,1,2-Trichloroethane	ND	UJ	2.0	0.46
75-34-3	1,1-Dichloroethane	8.3	J	2.0	0.76
75-35-4	1,1-Dichloroethene	1.2	J	2.0	0.58
120-82-1	1,2,4-Trichlorobenzene	ND	UJ	2.0	0.82
96-12-8	1,2-Dibromo-3-Chloropropane	ND	UJ	2.0	0.78
106-93-4	1,2-Dibromoethane	ND	UJ	2.0	1.5
95-50-1	1,2-Dichlorobenzene	ND	UJ	2.0	1.6
107-06-2	1,2-Dichloroethane	ND	UJ	2.0	0.42
78-87-5	1,2-Dichloropropane	ND	UJ	2.0	1.4
541-73-1	1,3-Dichlorobenzene	ND	UJ	2.0	1.6
106-46-7	1,4-Dichlorobenzene	ND	UJ	2.0	1.7
78-93-3	2-Butanone (MEK)	ND	UJ	20	2.6
591-78-6	2-Hexanone	ND	UJ	10	2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	UJ	10	4.2
67-64-1	Acetone	11	J	20	6.0
71-43-2	Benzene	ND	UJ	2.0	0.82
75-27-4	Bromodichloromethane	ND	UJ	2.0	0.78
75-25-2	Bromoform	ND	UJ	2.0	0.52
74-83-9	Bromomethane	ND	UJ	2.0	1.4
75-15-0	Carbon disulfide	ND	UJ	2.0	0.38
56-23-5	Carbon tetrachloride	ND	UJ	2.0	0.54
108-90-7	Chlorobenzene	ND	UJ	2.0	1.5
75-00-3	Chloroethane	ND	UJ	2.0	0.64
67-66-3	Chloroform	ND	UJ	2.0	0.68
74-87-3	Chloromethane	ND	UJ	2.0	0.70
156-59-2	cis-1,2-Dichloroethene	87	J	2.0	1.6
10061-01-5	cis-1,3-Dichloropropene	ND	UJ	2.0	0.72
110-82-7	Cyclohexane	ND	UJ	2.0	0.36
124-48-1	Dibromochloromethane	ND	UJ	2.0	0.64
75-71-8	Dichlorodifluoromethane	ND	UJ	2.0	1.4

Lab Name: Eurofins Buffalo	Job No.: 480-197309-1		
SDG No.:			
Client Sample ID: PDI-9_GW	Lab Sample ID: <u>480-197309-4</u>		
Matrix: Water	Lab File ID: T9152.D		
Analysis Method: 8260C	Date Collected: 04/28/2022 10:30		
Sample wt/vol: 5(mL)	Date Analyzed: 05/06/2022 19:12		
Soil Aliquot Vol:	Dilution Factor: 2		
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)		
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) N pH: 7.0		
% Moisture: % Solids:	Level: (low/med) Low		
Analysis Batch No.: 624854	Units: ug/L		

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	ND	UJ	2.0	1.5
98-82-8	Isopropylbenzene	ND	UJ	2.0	1.6
79-20-9	Methyl acetate	ND	UJ	5.0	2.6
1634-04-4	Methyl tert-butyl ether	ND	UJ	2.0	0.32
108-87-2	Methylcyclohexane	ND	UJ	2.0	0.32
75-09-2	Methylene Chloride	ND	UJ	2.0	0.88
100-42-5	Styrene	ND	UJ	2.0	1.5
127-18-4	Tetrachloroethene	9.0	J	2.0	0.72
108-88-3	Toluene	ND	UJ	2.0	1.0
156-60-5	trans-1,2-Dichloroethene	ND	UJ	2.0	1.8
10061-02-6	trans-1,3-Dichloropropene	ND	UJ	2.0	0.74
79-01-6	Trichloroethene	11	J	2.0	0.92
75-69-4	Trichlorofluoromethane	ND	UJ	2.0	1.8
75-01-4	Vinyl chloride	7.1	J	2.0	1.8
1330-20-7	Xylenes, Total	ND	UJ	4.0	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		77-120
460-00-4	4-Bromofluorobenzene (Surr)	91		73-120
1868-53-7	Dibromofluoromethane (Surr)	88		75-123
2037-26-5	Toluene-d8 (Surr)	99		80-120

Lab Name: Eurofins Buffalo	Job No.: 480-197309-1
SDG No.:	_
Client Sample ID: PDI-10_0304	Lab Sample ID: <u>480-197309-5</u>
Matrix: Solid	Lab File ID: M03448.D
Analysis Method: 8260C	Date Collected: 04/28/2022 10:51
Sample wt/vol: 7.146(g)	Date Analyzed: 05/02/2022 17:19
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: ZB-624 (30) VOA ID: 0.25(mm)
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) Y pH:
% Moisture: 11.6 % Solids: 88.4	Level: (low/med) Low
Analysis Batch No.: 624070	Units: ug/Kg

71-55-6       1,1,1-Trichloroethane       ND       4.0       0.29         79-34-5       1,1,2,2-Tetrachloroethane       ND       4.0       0.64         76-13-1       1,1,2-Trichloroethane       ND       4.0       0.90         79-00-5       1,1-Dichloroethane       ND       4.0       0.51         75-34-3       1,1-Dichloroethane       ND       4.0       0.48         75-35-4       1,2-Dichloroethane       ND       4.0       0.48         120-82-1       1,2,4-Trichlorobenzene       ND       4.0       0.24         96-12-8       1,2-Dibromo-3-Chloropropane       ND       4.0       0.20         106-93-4       1,2-Dibromo-1-Chloropropane       ND       4.0       0.21         107-06-2       1,2-Dichlorobenzene       ND       4.0       0.20         78-87-5       1,2-Dichlorobenzene       ND       4.0       0.20         78-87-5       1,2-Dichlorobenzene       ND       4.0       0.20         106-47-7       1,4-Dichlorobenzene       ND       2.0       1.4         91-78-6       2-Bexanone       ND       2.0       1.3         108-10-1       4-Methyl-2-pentanone (MIBK)       ND       2.0       1.3 <th>CAS NO.</th> <th>COMPOUND NAME</th> <th>RESULT</th> <th>Q</th> <th>RL</th> <th>MDL</th>	CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1         1,1,2-Trichloro-1,2,2-trifluoroethan         ND         4.0         0.90           79-00-5         1,1,2-Trichloroethane         ND         4.0         0.51           75-34-3         1,1-Dichloroethane         ND         4.0         0.48           75-35-4         1,1-Dichloroethane         ND         4.0         0.48           75-34-3         1,1-Dichloroethane         ND         4.0         0.48           75-35-4         1,2,4-Trichlorobenzene         ND         4.0         0.24           96-12-8         1,2-Dibromo-3-Chloropropane         ND         4.0         0.24           96-12-8         1,2-Dibromo-thane         ND         4.0         0.51           95-50-1         1,2-Dichlorobenzene         ND         4.0         0.20           107-06-2         1,2-Dichlorobenzene         ND         4.0         0.20           106-46-7         1,4-Dichlorobenzene         ND         4.0         0.20           106-46-7         1,4-Dichlorobenzene         ND         2.0         1.4           91-78-6         2-Butanone (MEK)         ND         2.0         1.4           91-78-6         2-Hexanone         ND         4.0         0.53	71-55-6	1,1,1-Trichloroethane	ND		4.0	0.29
e         ND         4.0           79-00-5         1,1,2-Trichloroethane         ND         4.0         0.51           75-34-3         1,1-Dichloroethane         ND         4.0         0.48           75-35-4         1,1-Dichloroethane         ND         4.0         0.48           120-82-1         1,2,4-Trichlorobenzene         ND         4.0         0.24           96-12-8         1,2-Dibromo-3-Chloropropane         ND         4.0         0.51           106-93-4         1,2-Dichlorobenzene         ND         4.0         0.51           95-50-1         1,2-Dichlorobenzene         ND         4.0         0.20           78-87-5         1,2-Dichlorobenzene         ND         4.0         0.20           78-87-5         1,2-Dichlorobenzene         ND         4.0         0.20           106-46-7         1,4-Dichlorobenzene         ND         4.0         0.20           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         20         1.13           67-64-1         Acetone         12         J         20         3.3           71-43-2         Benzene         ND         4.0         0.53           75-27-4         Bromodichloromethane	79-34-5	1,1,2,2-Tetrachloroethane	ND		4.0	0.64
T9-00-5         1,1,2-Trichloroethane         ND         4.0         0.51           75-34-3         1,1-Dichloroethane         ND         4.0         0.48           75-35-4         1,1-Dichloroethane         ND         4.0         0.24           96-12-8         1,2,4-Trichlorobenzene         ND         4.0         0.24           96-12-8         1,2-Dibromo-3-Chloropropane         ND         4.0         0.21           95-50-1         1,2-Dichlorobenzene         ND         4.0         0.31           107-06-2         1,2-Dichlorobenzene         ND         4.0         0.20           78-87-5         1,2-Dichloropthane         ND         4.0         0.20           78-87-5         1,2-Dichloropthane         ND         4.0         0.20           78-87-5         1,2-Dichloropthane         ND         4.0         0.20           78-87-3         2-Butanone (MEK)         ND         2.0         1.4           591-78-6         2-Hexanone         ND         2.0         1.4           591-78-6         2-Hexanone         ND         2.0         1.3           71-43-2         Benzene         ND         4.0         0.19           75-27-4         Bromodi	76-13-1		ND		4.0	0.90
75-35-4         1,1-Dichloroethene         ND         4.0         0.48           120-82-1         1,2,4-Trichlorobenzene         ND         4.0         0.24           96-12-8         1,2-Dibromo-3-Chloropropane         ND         4.0         0.21           106-93-4         1,2-Dibromo-3-Chloropropane         ND         4.0         0.51           95-50-1         1,2-Dichlorobenzene         ND         4.0         0.31           107-06-2         1,2-Dichlorobenzene         ND         4.0         0.20           78-87-5         1,2-Dichlorobenzene         ND         4.0         0.20           541-73-1         1,3-Dichlorobenzene         ND         4.0         0.20           06-46-7         1,4-Dichlorobenzene         ND         4.0         0.20           106-46-7         1,4-Dichlorobenzene         ND         4.0         0.20           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         20         1.4           591-78-6         2-Hexanone         ND         4.0         0.13           17-43-2         Benzene         ND         4.0         0.13           71-43-2         Benzene         ND         4.0         0.33           75-27-4 </td <td>79-00-5</td> <td>1,1,2-Trichloroethane</td> <td>ND</td> <td></td> <td>4.0</td> <td>0.51</td>	79-00-5	1,1,2-Trichloroethane	ND		4.0	0.51
120-82-1         1,2,4-Trichlorobenzene         ND         4.0         0.24           96-12-8         1,2-Dibromo-3-Chloropropane         ND         4.0         2.0           106-93-4         1,2-Dibromoethane         ND         4.0         0.51           95-50-1         1,2-Dichlorobenzene         ND         4.0         0.31           107-06-2         1,2-Dichlorobenzene         ND         4.0         0.20           78-87-5         1,2-Dichloropropane         ND         4.0         0.20           78-87-5         1,4-Dichloropropane         ND         4.0         0.20           106-46-7         1,4-Dichlorobenzene         ND         4.0         0.20           106-46-7         1,4-Dichlorobenzene         ND         2.0         1.4           591-78-6         2-Hexanone         ND         2.0         1.4           591-78-6         2-Hexanone         ND         2.0         1.3           67-64-1         Acetone         12         J         2.0         3.3           71-43-2         Benzene         ND         4.0         0.53           75-25-2         Bromodichloromethane         ND         4.0         0.36           75-25-2	75-34-3	1,1-Dichloroethane	ND		4.0	0.48
96-12-8         1,2-Dibrono-3-Chloropropane         ND         4.0         2.0           106-93-4         1,2-Dibromoethane         ND         4.0         0.51           95-50-1         1,2-Dichlorobenzene         ND         4.0         0.31           107-06-2         1,2-Dichlorobenzene         ND         4.0         0.20           78-87-5         1,2-Dichloropropane         ND         4.0         0.20           541-73-1         1,3-Dichlorobenzene         ND         4.0         0.20           106-46-7         1,4-Dichlorobenzene         ND         4.0         0.20           106-46-7         1,4-Dichlorobenzene         ND         4.0         0.55           78-93-3         2-Butanone (MEK)         ND         20         1.4           591-78-6         2-Hexanone         ND         20         1.4           591-78-6         2-Hexanone         ND         20         1.3           67-64-1         Acetone         12         J         20         3.3           71-43-2         Benzene         ND         4.0         0.53           75-25-2         Bromoferthane         ND         4.0         0.36           75-15-0         Carbon dis	75-35-4	1,1-Dichloroethene	ND		4.0	0.48
106-93-4         1,2-Dibromoethane         ND         4.0         0.51           95-50-1         1,2-Dichlorobenzene         ND         4.0         0.31           107-06-2         1,2-Dichlorobenzene         ND         4.0         0.20           78-87-5         1,2-Dichloropropane         ND         4.0         0.20           541-73-1         1,3-Dichlorobenzene         ND         4.0         0.20           541-73-1         1,3-Dichlorobenzene         ND         4.0         0.20           578-93-3         2-Butanone (MEK)         ND         2.0         1.4           591-78-6         2-Hexanone         ND         2.0         1.4           591-78-6         2-Hexanone         ND         2.0         1.3           67-64-1         Acetone         12         J         2.0         3.3           71-43-2         Benzene         ND         4.0         0.55           75-25-2         Bromodichloromethane         ND         4.0         0.36           75-25-2         Bromomethane         ND         4.0         0.36           75-25-2         Bromomethane         ND         4.0         0.36           75-15-0         Carbon disulfide <td>120-82-1</td> <td>1,2,4-Trichlorobenzene</td> <td>ND</td> <td></td> <td>4.0</td> <td>0.24</td>	120-82-1	1,2,4-Trichlorobenzene	ND		4.0	0.24
95-50-1         1,2-Dichlorobenzene         ND         4.0         0.31           107-06-2         1,2-Dichloropthane         ND         4.0         0.20           78-87-5         1,2-Dichloroptopane         ND         4.0         0.20           541-73-1         1,3-Dichlorobenzene         ND         4.0         0.20           06-46-7         1,4-Dichlorobenzene         ND         4.0         0.25           78-93-3         2-Butanone (MEK)         ND         20         1.4           591-78-6         2-Hexanone         ND         20         1.4           591-78-6         2-Hexanone (MEK)         ND         20         1.3           67-64-1         Acetone         12         J         20         3.3           71-43-2         Benzene         ND         4.0         0.19           75-27-4         Bromodichloromethane         ND         4.0         0.36           75-25-2         Bromomethane         ND         4.0         0.36           75-15-0         Carbon disulfide         ND         4.0         0.38           108-90-7         Chlorobenzene         ND         4.0         0.38           108-90-7         Chlorobenzene		1,2-Dibromo-3-Chloropropane	ND		4.0	2.0
107-06-2         1,2-Dichlorobhane         ND         4.0         0.10           78-87-5         1,2-Dichloropropane         ND         4.0         0.20           541-73-1         1,3-Dichlorobenzene         ND         4.0         0.20           106-46-7         1,4-Dichlorobenzene         ND         4.0         0.55           78-93-3         2-Butanone (MEK)         ND         2.0         1.4           591-78-6         2-Hexanone         MD         2.0         1.4           591-78-6         2-Hexanone         MD         2.0         1.3           67-64-1         Acetone         12         J         2.0         3.3           71-43-2         Benzene         ND         4.0         0.53           75-27-4         Bromodichloromethane         ND         4.0         0.53           75-25-2         Bromoform         ND         4.0         0.38           75-15-0         Carbon disulfide         ND         4.0         0.38           75-15-0         Carbon tetrachloride         ND         4.0         0.38           108-90-7         Chlorobenzene         ND         4.0         0.52           75-00-3         Chlorobenzene	106-93-4	1,2-Dibromoethane	ND		4.0	0.51
Restrict         Indication         Indication <thindication< th="">         Indication         Indication</thindication<>	95-50-1	1,2-Dichlorobenzene	ND		4.0	0.31
541-73-1         1,3-Dichlorobenzene         ND         4.0         0.20           106-46-7         1,4-Dichlorobenzene         ND         4.0         0.55           78-93-3         2-Butanone (MEK)         ND         20         1.4           591-78-6         2-Hexanone         ND         20         2.0           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         20         1.3           67-64-1         Acetone         12         J         20         3.3           71-43-2         Benzene         ND         4.0         0.19           75-27-4         Bromodichloromethane         ND         4.0         0.53           75-25-2         Bromoform         ND         4.0         0.53           75-27-4         Bromodichloromethane         ND         4.0         0.53           75-25-2         Bromoform         ND         4.0         0.53           75-25-3         Carbon disulfide         ND         4.0         0.36           75-15-0         Carbon disulfide         ND         4.0         0.38           108-90-7         Chlorobenzene         ND         4.0         0.52           75-0-3         Chlorotorm         <	107-06-2	1,2-Dichloroethane	ND		4.0	0.20
106-46-7         1,4-Dichlorobenzene         ND         4.0         0.55           78-93-3         2-Butanone (MEK)         ND         20         1.4           591-78-6         2-Hexanone         ND         20         2.0           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         20         1.3           67-64-1         Acetone         12         J         20         3.3           71-43-2         Benzene         ND         4.0         0.19           75-27-4         Bromodichloromethane         ND         4.0         0.53           75-25-2         Bromoferm         ND         4.0         0.36           75-25-2         Bromomethane         ND         4.0         0.36           75-25-2         Bromoferm         ND         4.0         0.36           75-25-2         Bromomethane         ND         4.0         0.36           75-15-0         Carbon disulfide         ND         4.0         0.36           56-23-5         Carbon tetrachloride         ND         4.0         0.52           75-00-3         Chlorobenzene         ND         4.0         0.52           75-00-3         Chloroform         ND	78-87-5	1,2-Dichloropropane	ND		4.0	2.0
78-93-3         2-Butanone (MEK)         ND         20         1.4           591-78-6         2-Hexanone         ND         20         2.0           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         20         1.3           67-64-1         Acetone         12         J         20         3.3           71-43-2         Benzene         ND         4.0         0.19           75-27-4         Bromodichloromethane         ND         4.0         0.53           75-25-2         Bromomethane         ND         4.0         0.36           75-15-0         Carbon disulfide         ND         4.0         0.38           108-90-7         Chlorobenzene         ND         4.0         0.38           108-90-7         Chlorobenzene         ND         4.0         0.52           75-00-3         Chlorobenzene         ND         4.0         0.54           75-66-3         Chloromethane         ND	541-73-1	1,3-Dichlorobenzene	ND		4.0	0.20
591-78-6         2-Hexanone         ND         20         2.0           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         20         1.3           67-64-1         Acetone         12         J         20         3.3           71-43-2         Benzene         ND         4.0         0.19           75-27-4         Bromodichloromethane         ND         4.0         0.53           75-25-2         Bromoform         ND         4.0         2.0           74-83-9         Bromomethane         ND         4.0         0.36           75-15-0         Carbon disulfide         ND         4.0         0.38           108-90-7         Chlorobenzene         ND         4.0         0.38           108-90-7         Chlorobenzene         ND         4.0         0.52           75-00-3         Chloroform         ND         4.0         0.89           67-66-3         Chloroform         ND         4.0         0.24           74-87-3         Chloromethane         ND         4.0         0.24           156-59-2         cis-1,2-Dichloroethene         20         4.0         0.51           10061-01-5         cis-1,3-Dichloropropene <t< td=""><td>106-46-7</td><td>1,4-Dichlorobenzene</td><td>ND</td><td></td><td>4.0</td><td>0.55</td></t<>	106-46-7	1,4-Dichlorobenzene	ND		4.0	0.55
108-10-1         4-Methyl-2-pentanone (MIBK)         ND         20         1.3           67-64-1         Acetone         12         J         20         3.3           71-43-2         Benzene         ND         4.0         0.19           75-27-4         Bromodichloromethane         ND         4.0         0.53           75-25-2         Bromoform         ND         4.0         0.36           75-25-2         Bromomethane         ND         4.0         0.36           75-15-0         Carbon disulfide         ND         4.0         0.38           108-90-7         Chlorobenzene         ND         4.0         0.38           108-90-7         Chlorobenzene         ND         4.0         0.52           75-00-3         Chlorobenzene         ND         4.0         0.89           67-66-3         Chloroform         ND         4.0         0.24           74-87-3         Chloromethane         ND         4.0         0.24           156-59-2         cis-1,2-Dichloroethene         20         4.0         0.51           10061-01-5         cis-1,3-Dichloropropene         ND         4.0         0.57           10-82-7         Cyclohexane	78-93-3	2-Butanone (MEK)	ND		20	1.4
67-64-1Acetone12J203.371-43-2BenzeneND4.00.1975-27-4BromodichloromethaneND4.00.5375-25-2BromoformND4.02.074-83-9BromomethaneND4.00.3675-15-0Carbon disulfideND4.02.056-23-5Carbon tetrachlorideND4.00.38108-90-7ChlorobenzeneND4.00.5275-00-3ChloroformND4.00.2474-87-3ChloromethaneND4.00.241061-01-5cis-1, 2-DichloropeneND4.00.5110-82-7CyclohexaneND4.00.55124-48-1DibromochloromethaneND4.00.51	591-78-6	2-Hexanone	ND		20	2.0
71-43-2         Benzene         ND         4.0         0.19           75-27-4         Bromodichloromethane         ND         4.0         0.53           75-25-2         Bromoform         ND         4.0         2.0           74-83-9         Bromomethane         ND         4.0         0.36           75-15-0         Carbon disulfide         ND         4.0         0.38           108-90-7         Chlorobenzene         ND         4.0         0.52           75-00-3         Chlorobenzene         ND         4.0         0.24           67-66-3         Chloroform         ND         4.0         0.24           74-87-3         Chloromethane         ND         4.0         0.24           1061-01-5         cis-1,2-Dichloroethene         20         4.0         0.24           1061-01-5         cis-1,3-Dichloropropene         ND         4.0         0.51           10061-01-5         cis-1,3-Dichloropropene         ND         4.0         0.57           110-82-7         Cyclohexane         ND         4.0         0.55           124-48-1         Dibromochloromethane         ND         4.0         0.51	108-10-1	4-Methyl-2-pentanone (MIBK)	ND		20	1.3
75-27-4         Bromodichloromethane         ND         4.0         0.53           75-25-2         Bromoform         ND         4.0         2.0           74-83-9         Bromomethane         ND         4.0         0.36           75-15-0         Carbon disulfide         ND         4.0         0.38           108-90-7         Chlorobenzene         ND         4.0         0.52           75-00-3         Chlorobenzene         ND         4.0         0.89           67-66-3         Chlorobenzene         ND         4.0         0.24           74-87-3         Chlorobenzene         ND         4.0         0.24           1061-01-5         cis-1,2-Dichloroethene         20         4.0         0.51           10061-01-5         cis-1,3-Dichloropropene         ND         4.0         0.57           110-82-7         Cyclohexane         ND         4.0         0.55           124-48-1         Dibromochloromethane         ND         4.0         0.51	67-64-1	Acetone	12	J	20	3.3
75-25-2         Bromoform         ND         4.0         2.0           74-83-9         Bromomethane         ND         MD         4.0         0.36           75-15-0         Carbon disulfide         ND         4.0         0.36           56-23-5         Carbon tetrachloride         ND         4.0         0.38           108-90-7         Chlorobenzene         ND         4.0         0.52           75-00-3         Chloroethane         ND         4.0         0.52           75-66-3         Chloroform         ND         4.0         0.24           74-87-3         Chloromethane         ND         4.0         0.24           156-59-2         cis-1,2-Dichloroethene         20         4.0         0.51           10061-01-5         cis-1,3-Dichloropropene         ND         4.0         0.57           110-82-7         Cyclohexane         ND         4.0         0.55           124-48-1         Dibromochloromethane         ND         4.0         0.51	71-43-2	Benzene	ND		4.0	0.19
74-83-9         Bromomethane         ND         4.0         0.36           75-15-0         Carbon disulfide         ND         4.0         2.0           56-23-5         Carbon tetrachloride         ND         4.0         0.38           108-90-7         Chlorobenzene         ND         4.0         0.52           75-00-3         Chlorothane         ND         4.0         0.89           67-66-3         Chloroform         ND         4.0         0.24           74-87-3         Chloromethane         ND         4.0         0.24           156-59-2         cis-1,2-Dichloroethene         20         4.0         0.51           10061-01-5         cis-1,3-Dichloropropene         ND         4.0         0.57           110-82-7         Cyclohexane         ND         4.0         0.55           124-48-1         Dibromochloromethane         ND         4.0         0.51	75-27-4	Bromodichloromethane	ND		4.0	0.53
75-15-0         Carbon disulfide         ND         4.0         2.0           56-23-5         Carbon tetrachloride         ND         4.0         0.38           108-90-7         Chlorobenzene         ND         4.0         0.52           75-00-3         Chloroethane         ND         4.0         0.89           67-66-3         Chloromethane         ND         4.0         0.24           74-87-3         Chloromethane         ND         4.0         0.24           1061-01-5         cis-1,2-Dichloroethene         20         4.0         0.51           10061-01-5         cis-1,3-Dichloropropene         ND         4.0         0.55           124-48-1         Dibromochloromethane         ND         4.0         0.55		Bromoform	ND		4.0	2.0
56-23-5         Carbon tetrachloride         ND         4.0         0.38           108-90-7         Chlorobenzene         ND         4.0         0.52           75-00-3         Chloroethane         ND         4.0         0.89           67-66-3         Chloromethane         ND         4.0         0.24           74-87-3         Chloromethane         ND         4.0         0.24           156-59-2         cis-1,2-Dichloroethene         20         4.0         0.51           10061-01-5         cis-1,3-Dichloropropene         ND         4.0         0.57           110-82-7         Cyclohexane         ND         4.0         0.55           124-48-1         Dibromochloromethane         ND         4.0         0.51	74-83-9	Bromomethane	ND		4.0	0.36
108-90-7         Chlorobenzene         ND         4.0         0.52           75-00-3         Chloroethane         ND         4.0         0.89           67-66-3         Chloroform         ND         4.0         0.24           74-87-3         Chloromethane         ND         4.0         0.24           156-59-2         cis-1,2-Dichloroethene         20         4.0         0.51           10061-01-5         cis-1,3-Dichloropropene         ND         4.0         0.57           110-82-7         Cyclohexane         ND         4.0         0.55           124-48-1         Dibromochloromethane         ND         4.0         0.51	75-15-0	Carbon disulfide	ND		4.0	2.0
75-00-3         Chloroethane         ND         4.0         0.89           67-66-3         Chloroform         ND         4.0         0.24           74-87-3         Chloromethane         ND         4.0         0.24           156-59-2         cis-1,2-Dichloroethene         20         4.0         0.51           10061-01-5         cis-1,3-Dichloropropene         ND         4.0         0.57           110-82-7         Cyclohexane         ND         4.0         0.55           124-48-1         Dibromochloromethane         ND         4.0         0.51		Carbon tetrachloride	ND		4.0	0.38
67-66-3         Chloroform         ND         4.0         0.24           74-87-3         Chloromethane         ND         4.0         0.24           156-59-2         cis-1,2-Dichloroethene         20         4.0         0.51           10061-01-5         cis-1,3-Dichloropropene         ND         4.0         0.57           110-82-7         Cyclohexane         ND         4.0         0.55           124-48-1         Dibromochloromethane         ND         4.0         0.51	108-90-7	Chlorobenzene	ND		4.0	0.52
74-87-3         Chloromethane         ND         4.0         0.24           156-59-2         cis-1,2-Dichloroethene         20         4.0         0.51           10061-01-5         cis-1,3-Dichloropropene         ND         4.0         0.57           110-82-7         Cyclohexane         ND         4.0         0.55           124-48-1         Dibromochloromethane         ND         4.0         0.51	75-00-3	Chloroethane	ND		4.0	0.89
156-59-2         cis-1,2-Dichloroethene         20         4.0         0.51           10061-01-5         cis-1,3-Dichloropropene         ND         4.0         0.57           110-82-7         Cyclohexane         ND         4.0         0.55           124-48-1         Dibromochloromethane         ND         4.0         0.51	67-66-3	Chloroform	ND		4.0	0.24
10061-01-5         cis-1,3-Dichloropropene         ND         4.0         0.57           110-82-7         Cyclohexane         ND         4.0         0.55           124-48-1         Dibromochloromethane         ND         4.0         0.51	74-87-3	Chloromethane	ND		4.0	0.24
110-82-7         Cyclohexane         ND         4.0         0.55           124-48-1         Dibromochloromethane         ND         4.0         0.51	156-59-2	cis-1,2-Dichloroethene	20		4.0	0.51
124-48-1         Dibromochloromethane         ND         4.0         0.51	10061-01-5	cis-1,3-Dichloropropene	ND		4.0	0.57
	110-82-7	Cyclohexane	ND		4.0	0.55
75-71-8         Dichlorodifluoromethane         ND         4.0         0.33	124-48-1	Dibromochloromethane	ND		4.0	0.51
	75-71-8	Dichlorodifluoromethane	ND		4.0	0.33

Lab Name: Eurofins Buffalo	Job No.: <u>480-197309-1</u>
SDG No.:	
Client Sample ID: PDI-10_0304	Lab Sample ID: <u>480-197309-5</u>
Matrix: Solid	Lab File ID: M03448.D
Analysis Method: 8260C	Date Collected: 04/28/2022 10:51
Sample wt/vol: 7.146(g)	Date Analyzed: 05/02/2022 17:19
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: ZB-624 (30) VOA ID: 0.25(mm)
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) Y pH:
% Moisture: 11.6 % Solids: 88.4	Level: (low/med) Low
Analysis Batch No.: 624070	Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	ND		4.0	0.27
98-82-8	Isopropylbenzene	ND		4.0	0.60
79-20-9	Methyl acetate	ND		20	2.4
1634-04-4	Methyl tert-butyl ether	ND		4.0	0.39
108-87-2	Methylcyclohexane	ND		4.0	0.60
75-09-2	Methylene Chloride	ND		4.0	1.8
100-42-5	Styrene	ND		4.0	0.20
127-18-4	Tetrachloroethene	2.3	J	4.0	0.53
108-88-3	Toluene	ND		4.0	0.30
156-60-5	trans-1,2-Dichloroethene	0.61	J	4.0	0.41
10061-02-6	trans-1,3-Dichloropropene	ND		4.0	1.7
79-01-6	Trichloroethene	ND		4.0	0.87
75-69-4	Trichlorofluoromethane	ND		4.0	0.37
75-01-4	Vinyl chloride	ND		4.0	0.48
1330-20-7	Xylenes, Total	ND		7.9	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		64-126
460-00-4	4-Bromofluorobenzene (Surr)	94		72-126
1868-53-7	Dibromofluoromethane (Surr)	104		60-140
2037-26-5	Toluene-d8 (Surr)	95		71-125

Lab Name: Eurofins Buffalo	Job No.: 480-197309-1			
SDG No.:				
Client Sample ID: PDI-10_GW	Lab Sample ID: <u>480-197309-6</u>			
Matrix: Water	Lab File ID: T9270.D			
Analysis Method: 8260C	Date Collected: 04/28/2022 10:25			
Sample wt/vol: 5(mL)	Date Analyzed: 05/11/2022 01:19			
Soil Aliquot Vol:	Dilution Factor: 5			
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)			
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) N pH: 7.0			
<pre>% Moisture: % Solids:</pre>	Level: (low/med) Low			
Analysis Batch No.: 625418	Units: ug/L			

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	UJ	5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	ND	UJ	5.0	1.1
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan e	ND	UJ	5.0	1.6
79-00-5	1,1,2-Trichloroethane	ND	UJ	5.0	1.2
75-34-3	1,1-Dichloroethane	15	J	5.0	1.9
75-35-4	1,1-Dichloroethene	ND	UJ	5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	ND	UJ	5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND	UJ	5.0	2.0
106-93-4	1,2-Dibromoethane	ND	UJ	5.0	3.7
95-50-1	1,2-Dichlorobenzene	ND	UJ	5.0	4.0
107-06-2	1,2-Dichloroethane	ND	UJ	5.0	1.1
78-87-5	1,2-Dichloropropane	ND	UJ	5.0	3.6
541-73-1	1,3-Dichlorobenzene	ND	UJ	5.0	3.9
106-46-7	1,4-Dichlorobenzene	ND	UJ	5.0	4.2
78-93-3	2-Butanone (MEK)	ND	J	50	6.6
591-78-6	2-Hexanone	ND	UJ	25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	UJ	25	11
67-64-1	Acetone	ND	UJ	50	15
71-43-2	Benzene	ND	UJ	5.0	2.1
75-27-4	Bromodichloromethane	ND	UJ	5.0	2.0
75-25-2	Bromoform	ND	UJ	5.0	1.3
74-83-9	Bromomethane	ND	UJ	5.0	3.5
75-15-0	Carbon disulfide	ND	UJ	5.0	0.95
56-23-5	Carbon tetrachloride	ND	UJ	5.0	1.4
108-90-7	Chlorobenzene	ND	UJ	5.0	3.8
75-00-3	Chloroethane	ND	UJ	5.0	1.6
67-66-3	Chloroform	ND	UJ	5.0	1.7
74-87-3	Chloromethane	ND	UJ	5.0	1.8
156-59-2	cis-1,2-Dichloroethene	140	J	5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	ND	UJ	5.0	1.8
110-82-7	Cyclohexane	ND	UJ	5.0	0.90
124-48-1	Dibromochloromethane	ND	UJ	5.0	1.6
75-71-8	Dichlorodifluoromethane	ND	UJ	5.0	3.4
	I				

Lab Name: Eurofins Buffalo	Job No.: 480-197309-1			
SDG No.:				
Client Sample ID: PDI-10_GW	Lab Sample ID: <u>480-197309-6</u>			
Matrix: Water	Lab File ID: T9270.D			
Analysis Method: 8260C	Date Collected: 04/28/2022 10:25			
Sample wt/vol: 5(mL)	Date Analyzed: 05/11/2022 01:19			
Soil Aliquot Vol:	Dilution Factor: 5			
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)			
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) N pH: 7.0			
% Moisture: % Solids:	Level: (low/med) Low			
Analysis Batch No.: 625418	Units: ug/L			

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	ND	UJ	5.0	3.7
98-82-8	Isopropylbenzene	ND	UJ	5.0	4.0
79-20-9	Methyl acetate	ND	UJ	13	6.5
1634-04-4	Methyl tert-butyl ether	ND	UJ	5.0	0.80
108-87-2	Methylcyclohexane	ND	UJ	5.0	0.80
75-09-2	Methylene Chloride	ND	UJ	5.0	2.2
100-42-5	Styrene	ND	UJ	5.0	3.7
127-18-4	Tetrachloroethene	ND	UJ	5.0	1.8
108-88-3	Toluene	ND	UJ	5.0	2.6
156-60-5	trans-1,2-Dichloroethene	ND	UJ	5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	ND	UJ	5.0	1.9
79-01-6	Trichloroethene	13	J	5.0	2.3
75-69-4	Trichlorofluoromethane	ND	UJ	5.0	4.4
75-01-4	Vinyl chloride	23	J	5.0	4.5
1330-20-7	Xylenes, Total	ND	UJ	10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
1868-53-7	Dibromofluoromethane (Surr)	110		75-123
2037-26-5	Toluene-d8 (Surr)	102		80-120

Lab Name: Eurofins Buffalo	Job No.: 480-197309-1			
SDG No.:				
Client Sample ID: DUP_042822	Lab Sample ID: <u>480-197309-7</u>			
Matrix: Solid	Lab File ID: M03449.D			
Analysis Method: 8260C	Date Collected: 04/28/2022 11:30			
Sample wt/vol: <u>6.439(g)</u>	Date Analyzed: 05/02/2022 17:43			
Soil Aliquot Vol:	Dilution Factor: 1			
Soil Extract Vol.:	GC Column: ZB-624 (30) VOA ID: 0.25(mm)			
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) Y pH:			
% Moisture: 10.3 % Solids: 89.7	Level: (low/med) Low			
Analysis Batch No.: 624070	Units: ug/Kg			

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		4.3	0.31
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.3	0.70
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan e	ND		4.3	0.99
79-00-5	1,1,2-Trichloroethane	ND		4.3	0.56
75-34-3	1,1-Dichloroethane	ND		4.3	0.53
75-35-4	1,1-Dichloroethene	ND		4.3	0.53
120-82-1	1,2,4-Trichlorobenzene	ND		4.3	0.26
96-12-8	1,2-Dibromo-3-Chloropropane	ND		4.3	2.2
106-93-4	1,2-Dibromoethane	ND		4.3	0.56
95-50-1	1,2-Dichlorobenzene	ND		4.3	0.34
107-06-2	1,2-Dichloroethane	ND		4.3	0.22
78-87-5	1,2-Dichloropropane	ND		4.3	2.2
541-73-1	1,3-Dichlorobenzene	ND		4.3	0.22
106-46-7	1,4-Dichlorobenzene	ND		4.3	0.61
78-93-3	2-Butanone (MEK)	ND		22	1.6
591-78-6	2-Hexanone	ND		22	2.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		22	1.4
67-64-1	Acetone	14	J	22	3.6
71-43-2	Benzene	ND		4.3	0.21
75-27-4	Bromodichloromethane	ND		4.3	0.58
75-25-2	Bromoform	ND		4.3	2.2
74-83-9	Bromomethane	ND		4.3	0.39
75-15-0	Carbon disulfide	ND		4.3	2.2
56-23-5	Carbon tetrachloride	ND		4.3	0.42
108-90-7	Chlorobenzene	ND		4.3	0.57
75-00-3	Chloroethane	ND		4.3	0.98
67-66-3	Chloroform	ND		4.3	0.27
74-87-3	Chloromethane	ND		4.3	0.26
156-59-2	cis-1,2-Dichloroethene	23		4.3	0.55
10061-01-5	cis-1,3-Dichloropropene	ND		4.3	0.62
110-82-7	Cyclohexane	ND		4.3	0.61
124-48-1	Dibromochloromethane	ND		4.3	0.55
75-71-8	Dichlorodifluoromethane	ND		4.3	0.36

Lab Name: Eurofins Buffalo	Job No.: 480-197309-1		
SDG No.:			
Client Sample ID: DUP_042822	Lab Sample ID: <u>480-197309-7</u>		
Matrix: Solid	Lab File ID: M03449.D		
Analysis Method: 8260C	Date Collected: 04/28/2022 11:30		
Sample wt/vol: 6.439(g)	Date Analyzed: 05/02/2022 17:43		
Soil Aliquot Vol:	Dilution Factor: 1		
Soil Extract Vol.:	GC Column: ZB-624 (30) VOA ID: 0.25(mm)		
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) Y pH:		
% Moisture: 10.3 % Solids: 89.7	Level: (low/med) Low		
Analysis Batch No.: 624070	Units: ug/Kg		

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	ND		4.3	0.30
98-82-8	Isopropylbenzene	ND		4.3	0.65
79-20-9	Methyl acetate	ND		22	2.6
1634-04-4	Methyl tert-butyl ether	ND		4.3	0.42
108-87-2	Methylcyclohexane	ND		4.3	0.66
75-09-2	Methylene Chloride	ND		4.3	2.0
100-42-5	Styrene	ND		4.3	0.22
127-18-4	Tetrachloroethene	1.6	J	4.3	0.58
108-88-3	Toluene	ND		4.3	0.33
156-60-5	trans-1,2-Dichloroethene	0.85	J	4.3	0.45
10061-02-6	trans-1,3-Dichloropropene	ND		4.3	1.9
79-01-6	Trichloroethene	ND		4.3	0.95
75-69-4	Trichlorofluoromethane	ND		4.3	0.41
75-01-4	Vinyl chloride	ND		4.3	0.53
1330-20-7	Xylenes, Total	ND		8.7	0.73

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		64-126
460-00-4	4-Bromofluorobenzene (Surr)	94		72-126
1868-53-7	Dibromofluoromethane (Surr)	104		60-140
2037-26-5	Toluene-d8 (Surr)	96		71-125

Lab Name: Eurofins Buffalo	Job No.: 480-197309-1
SDG No.:	
Client Sample ID: PDI-5_0405	Lab Sample ID: <u>480-197309-8</u>
Matrix: Solid	Lab File ID: M03450.D
Analysis Method: 8260C	Date Collected: 04/28/2022 11:51
Sample wt/vol: 6.971(g)	Date Analyzed: 05/02/2022 18:07
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: ZB-624 (30) VOA ID: 0.25(mm)
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) Y pH:
% Moisture: 7.1 % Solids: 92.9	Level: (low/med) Low
Analysis Batch No.: 624070	Units: ug/Kg

71-55-6         1,1,1-Trichloroethane         ND         3.9         0.28           79-34-5         1,1,2,2-Tetrachloroethane         ND         3.9         0.63           76-13-1         1,1,2-Trichloroethane         ND         3.9         0.88           79-00-5         1,1,2-Trichloroethane         ND         3.9         0.88           79-00-5         1,1-Dichloroethane         ND         3.9         0.47           75-34-3         1,1-Dichloroethane         ND         3.9         0.47           75-35-4         1,2-Dichloroethane         ND         3.9         0.47           120-82-1         1,2,4-Trichlorobenzene         ND         3.9         0.47           106-93-4         1,2-Dichlorobenzene         ND         3.9         0.50           95-50-1         1,2-Dichlorobenzene         ND         3.9         0.30           107-06-2         1,2-Dichlorobenzene         ND         3.9         0.20           108-46-7         1,4-Dichlorobenzene         ND         3.9         0.20           108-46-7         1,4-Edichlorobenzene         ND         3.9         0.24           108-46-7         1,4-Edichlorobenzene         ND         1.9         1.4	CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1         1,1,2-Trichloro-1,2,2-trifluoroethan         ND         3.9         0.88           79-00-5         1,1,2-Trichloroethane         ND         3.9         0.50           75-34-3         1,1-Dichloroethane         ND         3.9         0.47           75-35-4         1,1-Dichloroethane         ND         3.9         0.47           75-35-4         1,2,4-Trichlorobenzene         ND         3.9         0.42           120-82-1         1,2,4-Trichlorobenzene         ND         3.9         0.23           96-12-8         1,2-Dibromo-3-Chloropropane         ND         3.9         0.50           95-50-1         1,2-Dichlorobenzene         ND         3.9         0.50           95-50-1         1,2-Dichlorobenzene         ND         3.9         0.30           107-06-2         1,2-Dichlorobenzene         ND         3.9         0.20           106-46-7         1,4-Dichlorobenzene         ND         3.9         0.50           93-3         2-Butanone (MEK)         ND         19         1.4           91-78-6         2-Hexanone         ND         19         1.2           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         3.9         0.52	71-55-6	1,1,1-Trichloroethane	ND		3.9	0.28
e         ND         3.9           79-00-5         1,1,2-Trichloroethane         ND         3.9         0.50           75-34-3         1,1-Dichloroethane         ND         3.9         0.47           75-35-4         1,1-Dichloroethane         ND         3.9         0.47           75-35-4         1,2-Dichloroethene         ND         3.9         0.43           96-12-8         1,2-Jartichlorobenzene         ND         3.9         0.23           96-12-8         1,2-Dichlorobethane         ND         3.9         0.50           95-50-1         1,2-Dichlorobethane         ND         3.9         0.30           107-06-2         1,2-Dichlorobenzene         ND         3.9         0.19           541-73-1         1,3-Dichlorobenzene         ND         3.9         0.20           106-46-7         1,4-Dichlorobenzene         ND         3.9         0.54           78-87-5         2-Butanone (MEK)         ND         19         1.9           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         19         1.3           67-64-1         Acetone         ND         3.9         0.52           75-25-2         Bromodichloromethane         ND	79-34-5	1,1,2,2-Tetrachloroethane	ND		3.9	0.63
79-00-5         1,1,2-Trichloroethane         ND         3.9         0.50           75-34-3         1,1-Dichloroethane         ND         3.9         0.47           75-35-4         1,1-Dichloroethane         ND         3.9         0.47           120-82-1         1,2,4-Trichlorobenzene         ND         3.9         0.23           96-12-8         1,2-Dibromo-3-Chloropropane         ND         3.9         0.50           95-50-1         1,2-Dichlorobenzene         ND         3.9         0.50           95-50-1         1,2-Dichlorobenzene         ND         3.9         0.30           107-06-2         1,2-Dichlorobenzene         ND         3.9         0.19           78-87-5         1,2-Dichlorobenzene         ND         3.9         0.20           106-46-7         1,4-Dichlorobenzene         ND         3.9         0.20           106-46-7         1,4-Dichlorobenzene         ND         1.9         1.4           591-78-6         2-Hexanone         ND         1.9         1.4           591-78-6         2-Hexanone         ND         1.9         1.3           17-43-2         Benzene         ND         3.9         0.19           71-43-2 <t< td=""><td>76-13-1</td><td></td><td>ND</td><td></td><td>3.9</td><td>0.88</td></t<>	76-13-1		ND		3.9	0.88
75-35-4         1,1-Dichloroethene         ND         3.9         0.47           120-82-1         1,2,4-Trichlorobenzene         ND         3.9         0.23           96-12-8         1,2-Dibromo-3-Chloropropane         ND         3.9         0.50           106-93-4         1,2-Dibromo-3-Chloropropane         ND         3.9         0.50           95-50-1         1,2-Dichlorobenzene         ND         3.9         0.30           107-06-2         1,2-Dichlorobenzene         ND         3.9         0.19           78-87-5         1,2-Dichlorobenzene         ND         3.9         0.20           106-46-7         1,4-Dichlorobenzene         ND         3.9         0.20           106-46-7         1,4-Dichlorobenzene         ND         3.9         0.54           78-93-3         2-Butanone (MEK)         ND         19         1.4           591-78-6         2-Hexanone         ND         19         1.3           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         19         3.2           71-43-2         Benzene         ND         3.9         0.52           75-25-2         Bromoform         ND         3.9         0.35           75-15-0	79-00-5	1,1,2-Trichloroethane	ND		3.9	0.50
120-82-1         1,2,4-Trichlorobenzene         ND         3.9         0.23           96-12-8         1,2-Dibbromo-3-Chloropropane         ND         3.9         1.9           106-93-4         1,2-Dibbromoethane         ND         3.9         0.50           95-50-1         1,2-Dichlorobenzene         ND         3.9         0.30           107-06-2         1,2-Dichlorobenzene         ND         3.9         0.19           78-87-5         1,2-Dichlorobenzene         ND         3.9         0.20           106-46-7         1,4-Dichlorobenzene         ND         3.9         0.20           106-46-7         1,4-Dichlorobenzene         ND         3.9         0.54           78-93-3         2-Butanone (MEK)         ND         19         1.4           591-78-6         2-Hexanone         ND         19         1.3           67-64-1         Acetone         10         J         19         3.2           71-43-2         Benzene         ND         3.9         0.52           75-25-2         Bromodichloromethane         ND         3.9         0.35           75-15-0         Carbon disulfide         ND         3.9         0.37           74-83-9	75-34-3		ND		3.9	0.47
96-12-8         1,2-Dibromo-3-Chloropropane         ND         3.9         1.9           106-93-4         1,2-Dibromethane         ND         3.9         0.50           95-50-1         1,2-Dichlorobenzene         ND         3.9         0.30           107-06-2         1,2-Dichlorobenzene         ND         3.9         0.19           78-87-5         1,2-Dichloropropane         ND         3.9         1.9           541-73-1         1,3-Dichlorobenzene         ND         3.9         0.20           106-46-7         1,4-Dichlorobenzene         ND         3.9         0.20           106-46-7         1,4-Dichlorobenzene         ND         1.9         1.4           591-78-6         2-Hexanone (MEK)         ND         1.9         1.9           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         1.9         1.2           108-10-1         Acetone         10         J         1.9         3.2           71-43-2         Benzene         ND         3.9         0.19           75-27-4         Bromodichloromethane         ND         3.9         0.52           75-25-2         Bromotethane         ND         3.9         0.35           75-15-		1,1-Dichloroethene	ND		3.9	0.47
ID6-93-4         1,2-Dibromoethane         ND         3.9         0.50           95-50-1         1,2-Dichlorobenzene         ND         3.9         0.30           107-06-2         1,2-Dichlorobenzene         ND         3.9         0.19           78-87-5         1,2-Dichloropropane         ND         3.9         0.19           541-73-1         1,3-Dichlorobenzene         ND         3.9         0.20           106-46-7         1,4-Dichlorobenzene         ND         3.9         0.54           78-93-3         2-Butanone (MEK)         ND         19         1.4           591-78-6         2-Hexanone         ND         19         1.9           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         19         1.3           67-64-1         Acetone         10         J         19         3.2           71-43-2         Benzene         ND         3.9         0.19           75-27-4         Bromodichloromethane         ND         3.9         0.52           75-25-2         Bromomethane         ND         3.9         0.35           75-15-0         Carbon disulfide         ND         3.9         0.35           75-0-3         Chlor	120-82-1	1,2,4-Trichlorobenzene	ND		3.9	0.23
95-50-1         1,2-Dichlorobenzene         ND         3.9         0.30           107-06-2         1,2-Dichloropthane         ND         3.9         0.19           78-87-5         1,2-Dichloroptopane         ND         3.9         1.9           541-73-1         1,3-Dichlorobenzene         ND         3.9         0.20           106-46-7         1,4-Dichlorobenzene         ND         3.9         0.20           106-46-7         1,4-Dichlorobenzene         ND         3.9         0.54           78-93-3         2-Butanone (MEK)         ND         19         1.4           591-78-6         2-Hexanone         ND         19         1.4           591-78-6         2-Hexanone (MEK)         ND         19         1.3           67-64-1         Acetone         10         J         19         3.2           71-43-2         Benzene         ND         3.9         0.19           75-27-4         Bromodichloromethane         ND         3.9         0.52           75-25-2         Bromomethane         ND         3.9         0.35           75-15-0         Carbon disulfide         ND         3.9         0.37           108-90-7         Chlorobenzene<	96-12-8	1,2-Dibromo-3-Chloropropane	ND		3.9	1.9
107-06-2         1,2-Dichloroethane         ND         3.9         0.19           78-87-5         1,2-Dichloropropane         ND         3.9         1.9           541-73-1         1,3-Dichlorobenzene         ND         3.9         0.20           106-46-7         1,4-Dichlorobenzene         ND         3.9         0.54           78-93-3         2-Butanone (MEK)         ND         19         1.4           591-78-6         2-Hexanone (MEK)         ND         19         1.4           591-78-6         2-Hexanone (MIBK)         ND         19         1.3           67-64-1         Acetone         10         J         19         3.2           71-43-2         Benzene         ND         3.9         0.19           75-27-4         Bromodichloromethane         ND         3.9         0.52           75-25-2         Bromoform         ND         3.9         0.37           74-83-9         Bromomethane         ND         3.9         0.37           75-15-0         Carbon disulfide         ND         3.9         0.37           708-90-7         Chlorobenzene         ND         3.9         0.37           75-00-3         Chloroethane	106-93-4	1,2-Dibromoethane	ND		3.9	0.50
78-87-5         1,2-Dichloropropane         ND         3.9         1.9           541-73-1         1,3-Dichlorobenzene         ND         3.9         0.20           106-46-7         1,4-Dichlorobenzene         ND         3.9         0.54           78-93-3         2-Butanone (MEK)         ND         19         1.4           591-78-6         2-Hexanone         ND         19         1.9           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         19         1.3           67-64-1         Acetone         10         J         19         3.2           71-43-2         Benzene         ND         3.9         0.19           75-27-4         Bromodichloromethane         ND         3.9         0.52           75-25-2         Bromoform         ND         3.9         0.39           74-83-9         Bromomethane         ND         3.9         0.35           75-15-0         Carbon disulfide         ND         3.9         0.37           108-90-7         Chlorobenzene         ND         3.9         0.37           108-90-7         Chlorobenzene         ND         3.9         0.37           75-00-3         Chlorobenzene	95-50-1	1,2-Dichlorobenzene	ND		3.9	0.30
541-73-1         1,3-Dichlorobenzene         ND         3.9         0.20           106-46-7         1,4-Dichlorobenzene         ND         3.9         0.54           78-93-3         2-Butanone (MEK)         ND         19         1.4           591-78-6         2-Hexanone         ND         19         1.9           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         19         1.3           67-64-1         Acetone         10         J         19         3.2           71-43-2         Benzene         ND         3.9         0.19           75-27-4         Bromodichloromethane         ND         3.9         0.52           75-25-2         Bromomethane         ND         3.9         1.9           74-83-9         Bromomethane         ND         3.9         1.9           75-27-5         Carbon disulfide         ND         3.9         0.35           75-15-0         Carbon disulfide         ND         3.9         0.37           108-90-7         Chlorobenzene         ND         3.9         0.61           75-00-3         Chlorobenzene         ND         3.9         0.24           74-87-3         Chloroform <td< td=""><td>107-06-2</td><td>1,2-Dichloroethane</td><td>ND</td><td></td><td>3.9</td><td>0.19</td></td<>	107-06-2	1,2-Dichloroethane	ND		3.9	0.19
106-46-7         1,4-Dichlorobenzene         ND         3.9         0.54           78-93-3         2-Butanone (MEK)         ND         19         1.4           591-78-6         2-Hexanone         ND         19         1.9           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         19         1.3           67-64-1         Acetone         10         J         19         3.2           71-43-2         Benzene         ND         3.9         0.19           75-27-4         Bromodichloromethane         ND         3.9         0.52           75-25-2         Bromoform         ND         3.9         0.35           75-15-0         Carbon disulfide         ND         3.9         0.35           75-15-0         Carbon disulfide         ND         3.9         0.37           108-90-7         Chlorobenzene         ND         3.9         0.37           108-90-7         Chlorobenzene         ND         3.9         0.51           75-00-3         Chlorobenzene         ND         3.9         0.67           75-00-3         Chlorobenzene         ND         3.9         0.24           74-87-3         Chloromethane         ND	78-87-5	1,2-Dichloropropane	ND		3.9	1.9
78-93-3         2-Butanone (MEK)         ND         19         1.4           591-78-6         2-Hexanone         ND         19         1.9           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         19         1.3           67-64-1         Acetone         10         J         19         3.2           71-43-2         Benzene         ND         3.9         0.19           75-27-4         Bromodichloromethane         ND         3.9         0.52           75-25-2         Bromoform         ND         3.9         0.35           75-15-0         Carbon disulfide         ND         3.9         0.35           75-15-0         Carbon tetrachloride         ND         3.9         0.37           108-90-7         Chlorobenzene         ND         3.9         0.37           75-00-3         Chlorobenzene         ND         3.9         0.51           75-00-3         Chlorobenzene         ND         3.9         0.51           75-00-3         Chloroform         ND         3.9         0.624           74-87-3         Chlorobenzene         ND         3.9         0.23           156-59-2         cis-1,2-Dichloroethene <t< td=""><td>541-73-1</td><td>1,3-Dichlorobenzene</td><td>ND</td><td></td><td>3.9</td><td>0.20</td></t<>	541-73-1	1,3-Dichlorobenzene	ND		3.9	0.20
591-78-6         2-Hexanone         ND         19         1.9           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         19         1.3           67-64-1         Acetone         10         J         19         3.2           71-43-2         Benzene         ND         3.9         0.19           75-27-4         Bromodichloromethane         ND         3.9         0.52           75-25-2         Bromoform         ND         3.9         0.52           75-25-2         Bromodichloromethane         ND         3.9         0.52           75-25-2         Bromoform         ND         3.9         0.53           75-15-0         Carbon disulfide         ND         3.9         0.35           75-15-0         Carbon tetrachloride         ND         3.9         0.37           108-90-7         Chlorobenzene         ND         3.9         0.51           75-00-3         Chloroform         ND         3.9         0.24           74-87-3         Chloroform         ND         3.9         0.23           156-59-2         cis-1,2-Dichloroethene         26         3.9         0.49           10061-01-5         cis-1,3-Dichloropropene	106-46-7	1,4-Dichlorobenzene	ND		3.9	0.54
108-10-1         4-Methyl-2-pentanone (MIBK)         ND         19         1.3           67-64-1         Acetone         10         J         19         3.2           71-43-2         Benzene         ND         3.9         0.19           75-27-4         Bromodichloromethane         ND         3.9         0.52           75-25-2         Bromoform         ND         3.9         0.52           75-25-2         Bromomethane         ND         3.9         0.35           75-15-0         Carbon disulfide         ND         3.9         0.35           75-15-0         Carbon tetrachloride         ND         3.9         0.37           108-90-7         Chlorobenzene         ND         3.9         0.37           75-00-3         Chlorobenzene         ND         3.9         0.87           67-66-3         Chloroform         ND         3.9         0.24           74-87-3         Chloromethane         ND         3.9         0.23           156-59-2         cis-1,2-Dichloroethene         26         3.9         0.49           10061-01-5         cis-1,3-Dichloropropene         ND         3.9         0.56           110-82-7         Cyclohexane <td>78-93-3</td> <td>2-Butanone (MEK)</td> <td>ND</td> <td></td> <td>19</td> <td>1.4</td>	78-93-3	2-Butanone (MEK)	ND		19	1.4
67-64-1         Acetone         10         J         19         3.2           71-43-2         Benzene         ND         3.9         0.19           75-27-4         Bromodichloromethane         ND         3.9         0.52           75-27-4         Bromodichloromethane         ND         3.9         0.52           75-25-2         Bromoform         ND         3.9         1.9           74-83-9         Bromomethane         ND         3.9         0.35           75-15-0         Carbon disulfide         ND         3.9         0.37           56-23-5         Carbon tetrachloride         ND         3.9         0.37           108-90-7         Chlorobenzene         ND         3.9         0.51           75-00-3         Chloroform         ND         3.9         0.87           67-66-3         Chloroform         ND         3.9         0.24           74-87-3         Chloromethane         ND         3.9         0.23           156-59-2         cis-1, 2-Dichloroethene         26         3.9         0.49           10061-01-5         cis-1, 3-Dichloropropene         ND         3.9         0.56           110-82-7         Cyclohexane	591-78-6	2-Hexanone	ND		19	1.9
71-43-2         Benzene         ND         3.9         0.19           75-27-4         Bromodichloromethane         ND         3.9         0.52           75-27-4         Bromodichloromethane         ND         3.9         0.52           75-25-2         Bromoform         ND         3.9         1.9           74-83-9         Bromomethane         ND         3.9         0.35           75-15-0         Carbon disulfide         ND         3.9         0.37           56-23-5         Carbon tetrachloride         ND         3.9         0.37           108-90-7         Chlorobenzene         ND         3.9         0.51           75-06-3         Chloroethane         ND         3.9         0.24           74-87-3         Chloromethane         ND         3.9         0.23           156-59-2         cis-1,2-Dichloroethene         26         3.9         0.23           156-59-2         cis-1,3-Dichloropropene         ND         3.9         0.49           10061-01-5         cis-1,3-Dichloropropene         ND         3.9         0.56           110-82-7         Cyclohexane         ND         3.9         0.54           124-48-1         Dibromochloromethane	108-10-1	4-Methyl-2-pentanone (MIBK)	ND		19	1.3
75-27-4         Bromodichloromethane         ND         3.9         0.52           75-25-2         Bromoform         ND         3.9         1.9           74-83-9         Bromomethane         ND         3.9         0.35           75-15-0         Carbon disulfide         ND         3.9         0.37           56-23-5         Carbon tetrachloride         ND         3.9         0.37           108-90-7         Chlorobenzene         ND         3.9         0.37           75-60-3         Chlorobenzene         ND         3.9         0.51           75-0-3         Chlorobenzene         ND         3.9         0.24           74-87-3         Chloroform         ND         3.9         0.23           156-59-2         cis-1,2-Dichloroethene         26         3.9         0.49           10061-01-5         cis-1,3-Dichloropropene         ND         3.9         0.56           110-82-7         Cyclohexane         ND         3.9         0.54           124-48-1         Dibromochloromethane         ND         3.9         0.49	67-64-1	Acetone	10	J	19	3.2
75-25-2BromoformND3.91.974-83-9BromomethaneND3.90.3575-15-0Carbon disulfideND3.91.956-23-5Carbon tetrachlorideND3.90.37108-90-7ChlorobenzeneND3.90.5175-00-3ChloroethaneND3.90.8767-66-3ChloroformND3.90.2474-87-3ChloromethaneND3.90.23156-59-2cis-1,2-Dichloroethene263.90.4910061-01-5cis-1,3-DichloropropeneND3.90.56110-82-7CyclohexaneND3.90.54124-48-1DibromochloromethaneND3.90.49	71-43-2	Benzene	ND		3.9	0.19
74-83-9         Bromomethane         ND         3.9         0.35           75-15-0         Carbon disulfide         ND         3.9         1.9           56-23-5         Carbon tetrachloride         ND         3.9         0.37           108-90-7         Chlorobenzene         ND         3.9         0.51           75-00-3         Chloroethane         ND         3.9         0.87           67-66-3         Chloroform         ND         3.9         0.24           74-87-3         Chloromethane         ND         3.9         0.23           156-59-2         cis-1,2-Dichloroethene         26         3.9         0.49           10061-01-5         cis-1,3-Dichloropropene         ND         3.9         0.54           110-82-7         Cyclohexane         ND         3.9         0.54           124-48-1         Dibromochloromethane         ND         3.9         0.49	75-27-4	Bromodichloromethane	ND		3.9	0.52
75-15-0         Carbon disulfide         ND         3.9         1.9           56-23-5         Carbon tetrachloride         ND         3.9         0.37           108-90-7         Chlorobenzene         ND         3.9         0.51           75-00-3         Chloroethane         ND         3.9         0.87           67-66-3         Chlorom         ND         3.9         0.24           74-87-3         Chloromethane         ND         3.9         0.23           156-59-2         cis-1,2-Dichloroethene         26         3.9         0.49           10061-01-5         cis-1,3-Dichloropropene         ND         3.9         0.54           110-82-7         Cyclohexane         ND         3.9         0.54           124-48-1         Dibromochloromethane         ND         3.9         0.49	75-25-2	Bromoform	ND		3.9	1.9
56-23-5         Carbon tetrachloride         ND         3.9         0.37           108-90-7         Chlorobenzene         ND         3.9         0.51           75-00-3         Chloroethane         ND         3.9         0.87           67-66-3         Chloromethane         ND         3.9         0.24           74-87-3         Chloromethane         ND         3.9         0.23           156-59-2         cis-1,2-Dichloroethene         26         3.9         0.49           10061-01-5         cis-1,3-Dichloropropene         ND         3.9         0.56           110-82-7         Cyclohexane         ND         3.9         0.54           124-48-1         Dibromochloromethane         ND         3.9         0.49	74-83-9	Bromomethane	ND		3.9	0.35
108-90-7         Chlorobenzene         ND         3.9         0.51           75-00-3         Chloroethane         ND         3.9         0.87           67-66-3         Chlorom         ND         3.9         0.24           74-87-3         Chloromethane         ND         3.9         0.23           156-59-2         cis-1,2-Dichloroethene         26         3.9         0.49           10061-01-5         cis-1,3-Dichloropropene         ND         3.9         0.56           110-82-7         Cyclohexane         ND         3.9         0.54           124-48-1         Dibromochloromethane         ND         3.9         0.49	75-15-0	Carbon disulfide	ND		3.9	1.9
75-00-3         Chloroethane         ND         3.9         0.87           67-66-3         Chloroform         ND         3.9         0.24           74-87-3         Chloromethane         ND         3.9         0.23           156-59-2         cis-1,2-Dichloroethene         26         3.9         0.49           10061-01-5         cis-1,3-Dichloropropene         ND         3.9         0.56           110-82-7         Cyclohexane         ND         3.9         0.54           124-48-1         Dibromochloromethane         ND         3.9         0.49	56-23-5	Carbon tetrachloride	ND		3.9	0.37
67-66-3         Chloroform         ND         3.9         0.24           74-87-3         Chloromethane         ND         3.9         0.23           156-59-2         cis-1,2-Dichloroethene         26         3.9         0.49           10061-01-5         cis-1,3-Dichloropropene         ND         3.9         0.56           110-82-7         Cyclohexane         ND         3.9         0.54           124-48-1         Dibromochloromethane         ND         3.9         0.49	108-90-7	Chlorobenzene	ND		3.9	0.51
74-87-3         Chloromethane         ND         3.9         0.23           156-59-2         cis-1,2-Dichloroethene         26         3.9         0.49           10061-01-5         cis-1,3-Dichloropropene         ND         3.9         0.56           110-82-7         Cyclohexane         ND         3.9         0.54           124-48-1         Dibromochloromethane         ND         3.9         0.49	75-00-3	Chloroethane	ND		3.9	0.87
156-59-2         cis-1,2-Dichloroethene         26         3.9         0.49           10061-01-5         cis-1,3-Dichloropropene         ND         3.9         0.56           110-82-7         Cyclohexane         ND         3.9         0.54           124-48-1         Dibromochloromethane         ND         3.9         0.49	67-66-3	Chloroform	ND		3.9	0.24
10061-01-5         cis-1,3-Dichloropropene         ND         3.9         0.56           110-82-7         Cyclohexane         ND         3.9         0.54           124-48-1         Dibromochloromethane         ND         3.9         0.49	74-87-3	Chloromethane	ND		3.9	0.23
110-82-7         Cyclohexane         ND         3.9         0.54           124-48-1         Dibromochloromethane         ND         3.9         0.49	156-59-2	cis-1,2-Dichloroethene	26		3.9	0.49
124-48-1         Dibromochloromethane         ND         3.9         0.49	10061-01-5	cis-1,3-Dichloropropene	ND		3.9	0.56
	110-82-7	Cyclohexane	ND		3.9	0.54
75-71-8DichlorodifluoromethaneND3.90.32	124-48-1	Dibromochloromethane	ND		3.9	0.49
	75-71-8	Dichlorodifluoromethane	ND		3.9	0.32

Lab Name: Eurofins Buffalo	Job No.: 480-197309-1
SDG No.:	
Client Sample ID: PDI-5_0405	Lab Sample ID: <u>480-197309-8</u>
Matrix: Solid	Lab File ID: M03450.D
Analysis Method: 8260C	Date Collected: 04/28/2022 11:51
Sample wt/vol: 6.971(g)	Date Analyzed: 05/02/2022 18:07
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: ZB-624 (30) VOA ID: 0.25(mm)
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) Y pH:
% Moisture: 7.1 % Solids: 92.9	Level: (low/med) Low
Analysis Batch No.: 624070	Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	ND		3.9	0.27
98-82-8	Isopropylbenzene	ND		3.9	0.58
79-20-9	Methyl acetate	6.3	J	19	2.3
1634-04-4	Methyl tert-butyl ether	ND		3.9	0.38
108-87-2	Methylcyclohexane	0.67	J	3.9	0.59
75-09-2	Methylene Chloride	ND		3.9	1.8
100-42-5	Styrene	ND		3.9	0.19
127-18-4	Tetrachloroethene	3.9		3.9	0.52
108-88-3	Toluene	ND		3.9	0.29
156-60-5	trans-1,2-Dichloroethene	1.3	J	3.9	0.40
10061-02-6	trans-1,3-Dichloropropene	ND		3.9	1.7
79-01-6	Trichloroethene	ND		3.9	0.85
75-69-4	Trichlorofluoromethane	ND		3.9	0.37
75-01-4	Vinyl chloride	ND		3.9	0.47
1330-20-7	Xylenes, Total	ND		7.7	0.65

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		64-126
460-00-4	4-Bromofluorobenzene (Surr)	94		72-126
1868-53-7	Dibromofluoromethane (Surr)	105		60-140
2037-26-5	Toluene-d8 (Surr)	95		71-125

Lab Name: Eurofins Buffalo	Job No.: 480-197309-1
SDG No.:	
Client Sample ID: PDI-11_0304	Lab Sample ID: <u>480-197309-9</u>
Matrix: Solid	Lab File ID: M03451.D
Analysis Method: 8260C	Date Collected: 04/28/2022 13:11
Sample wt/vol: 6.674(g)	Date Analyzed: 05/02/2022 18:31
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: ZB-624 (30) VOA ID: 0.25(mm)
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) Y pH:
% Moisture: 12.4 % Solids: 87.6	Level: (low/med) Low
Analysis Batch No.: 624070	Units: ug/Kg

79-34-5         1,1,2,2-Tetrachloroethane         ND         4.3         0           76-13-1         1,1,2-Trichloro-1,2,2-trifluoroethan         ND         4.3         0           79-00-5         1,1,2-Trichloroethane         ND         4.3         0           75-34-3         1,1-Dichloroethane         ND         4.3         0           75-35-4         1,1-Dichloroethane         ND         4.3         0           120-82-1         1,2,4-Trichlorobenzene         ND         4.3         0           96-12-8         1,2-Dibromo-3-Chloropropane         ND         4.3         0           106-93-4         1,2-Dibromo-3-Chloropropane         ND         4.3         0           107-06-2         1,2-Dichlorobenzene         ND         4.3         0           108-10-1         4,4-Bichorobenzene         ND         4.3         0           108-26-7         1,4-Dichlorobenzene         ND         4.3         0	CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1         1,1,2-Trichloro-1,2,2-trifluoroethan e         ND         4.3         0           79-00-5         1,1,2-Trichloroethane         ND         4.3         0           75-34-3         1,1-Dichloroethane         ND         4.3         0           75-35-4         1,1-Dichloroethane         ND         4.3         0           120-82-1         1,2,4-Trichlorobenzene         ND         4.3         0           96-12-8         1,2-Dibromo-3-Chloropropane         ND         4.3         0           96-12-8         1,2-Dibromo-3-Chloropropane         ND         4.3         0           106-93-4         1,2-Dibromoethane         ND         4.3         0           107-06-2         1,2-Dichlorobenzene         ND         4.3         0           107-06-2         1,2-Dichlorobenzene         ND         4.3         0           106-46-7         1,4-Dichlorobenzene         ND         4.3         0           106-46-7         1,4-Dichlorobenzene         ND         4.3         0           108-10-1         4-Methyl-2-pentanone (MIEK)         ND         21         0           108-10-1         4-Methyl-2-pentanone (MIEK)         ND         4.3         0	71-55-6	1,1,1-Trichloroethane	ND		4.3	0.31
e         ND         4.3         0           79-00-5         1,1,2-Trichloroethane         ND         4.3         0           75-34-3         1,1-Dichloroethane         ND         4.3         0           75-35-4         1,1-Dichloroethane         ND         4.3         0           120-82-1         1,2,4-Trichlorobenzene         ND         4.3         0           96-12-8         1,2-Dibromo-3-Chloropropane         ND         4.3         0           96-50-1         1,2-Dichlorobenzene         ND         4.3         0           106-93-4         1,2-Dichlorobenzene         ND         4.3         0           107-06-2         1,2-Dichlorobenzene         ND         4.3         0           107-06-2         1,2-Dichlorobenzene         ND         4.3         0           107-06-2         1,2-Dichlorobenzene         ND         4.3         0           78-87-5         1,2-Dichlorobenzene         ND         4.3         0           78-93-3         2-Butanone (MEK)         ND         21         0           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         21         0           108-10-1         Acetone         ND         2	79-34-5	1,1,2,2-Tetrachloroethane	ND		4.3	0.69
75-34-3         1,1-Dichloroethane         ND         4.3         0           75-35-4         1,1-Dichloroethene         ND         4.3         0           120-82-1         1,2,4-Trichlorobenzene         ND         4.3         0           96-12-8         1,2-Dibromo-3-Chloropropane         ND         4.3         0           106-93-4         1,2-Dibromo-3-Chloropropane         ND         4.3         0           95-50-1         1,2-Dichlorobenzene         ND         4.3         0           107-06-2         1,2-Dichloropthane         ND         4.3         0           107-06-2         1,2-Dichloropthane         ND         4.3         0           74-73-1         1,3-Dichlorobenzene         ND         4.3         0           106-46-7         1,4-Dichlorobenzene         ND         4.3         0           78-93-3         2-Butanone (MEK)         ND         21         0           71-73-1         4.4         0         1         0         1           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         21         1           71-43-2         Benzene         ND         4.3         0           75-27-4         Bromodichlor	76-13-1		ND		4.3	0.97
75-35-4         1,1-Dichloroethene         ND         4.3         0           120-82-1         1,2,4-Trichlorobenzene         ND         4.3         0           96-12-8         1,2-Dibromo-3-Chloropropane         ND         4.3         0           96-12-8         1,2-Dibromo-3-Chloropropane         ND         4.3         0           95-50-1         1,2-Dichlorobenzene         ND         4.3         0           107-06-2         1,2-Dichlorobenzene         ND         4.3         0           78-87-5         1,2-Dichlorobenzene         ND         4.3         0           78-87-5         1,2-Dichlorobenzene         ND         4.3         0           106-46-7         1,4-Dichlorobenzene         ND         4.3         0           106-46-7         1,4-Dichlorobenzene         ND         2.1         0           591-78-6         2-Hexanone         ND         2.1         0           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         2.1         0           71-43-2         Benzene         ND         4.3         0           75-27-4         Bromodichloromethane         ND         4.3         0           75-5-5         Carbon disulf	79-00-5	1,1,2-Trichloroethane	ND		4.3	0.56
120-82-1         1,2,4-Trichlorobenzene         ND         4.3         0           96-12-8         1,2-Dibromo-3-Chloropropane         ND         4.3         0           106-93-4         1,2-Dibromoethane         ND         4.3         0           95-50-1         1,2-Dichlorobenzene         ND         4.3         0           107-06-2         1,2-Dichlorobenzene         ND         4.3         0           78-87-5         1,2-Dichloroptopane         ND         4.3         0           541-73-1         1,3-Dichlorobenzene         ND         4.3         0           106-46-7         1,4-Dichlorobenzene         ND         4.3         0           78-93-3         2-Butanone (MEK)         ND         21         0           591-78-6         2-Hexanone         ND         21         0           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         21         0           71-43-2         Benzene         ND         4.3         0           75-27-4         Bromodichloromethane         ND         4.3         0           74-83-9         Bromomethane         ND         4.3         0           75-25-2         Bromoform         ND <td>75-34-3</td> <td>1,1-Dichloroethane</td> <td>ND</td> <td></td> <td>4.3</td> <td>0.52</td>	75-34-3	1,1-Dichloroethane	ND		4.3	0.52
96-12-8         1,2-Dibromo-3-Chloropropane         ND         4.3           106-93-4         1,2-Dibromoethane         ND         4.3         0           95-50-1         1,2-Dichlorobenzene         ND         4.3         0           107-06-2         1,2-Dichloroethane         ND         4.3         0           78-87-5         1,2-Dichloroethane         ND         4.3         0           541-73-1         1,3-Dichlorobenzene         ND         4.3         0           106-46-7         1,4-Dichlorobenzene         ND         4.3         0           78-93-3         2-Butanone (MEK)         ND         4.3         0           591-78-6         2-Hexanone         ND         21         0           108-10-1         4-Methyl-2-pentanone (MIEK)         ND         21         0           71-43-2         Benzene         ND         4.3         0           75-27-4         Bromodichloromethane         ND         4.3         0           75-25-2         Bromodethane         ND         4.3         0           75-50         Carbon disulfide         ND         4.3         0           75-51-0         Carbon tetrachloride         ND         4.3<	75-35-4	1,1-Dichloroethene	ND		4.3	0.52
106-93-4         1,2-Dibromothane         ND         4.3         0           95-50-1         1,2-Dichlorobenzene         ND         4.3         0           107-06-2         1,2-Dichlorobenzene         ND         4.3         0           78-87-5         1,2-Dichloropropane         ND         4.3         0           541-73-1         1,3-Dichlorobenzene         ND         4.3         0           106-46-7         1,4-Dichlorobenzene         ND         4.3         0           78-87-6         2-Butanone (MEK)         ND         21         0           591-78-6         2-Hexanone         ND         21         0           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         21         0           71-43-2         Benzene         ND         21         0           71-43-2         Benzene         ND         4.3         0           75-27-4         Bromodichloromethane         ND         4.3         0           75-25-2         Bromothane         ND         4.3         0           75-15-0         Carbon disulfide         ND         4.3         0           108-90-7         Chlorobenzene         ND         4.3	120-82-1	1,2,4-Trichlorobenzene	ND		4.3	0.26
95-50-1         1,2-Dichlorobenzene         ND         4.3         0           107-06-2         1,2-Dichloroethane         ND         4.3         0           78-87-5         1,2-Dichloropropane         ND         4.3         0           541-73-1         1,3-Dichlorobenzene         ND         4.3         0           106-46-7         1,4-Dichlorobenzene         ND         4.3         0           78-87-5         2-Butanone (MEK)         ND         21         0           591-78-6         2-Hexanone         ND         21         0           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         21         0           108-10-1         A-methyl-2-pentanone (MIBK)         ND         21         0           71-43-2         Benzene         ND         21         0           75-27-4         Bromodichloromethane         ND         4.3         0           75-25-2         Bromomethane         ND         4.3         0           75-15-0         Carbon disulfide         ND         4.3         0           75-07-3         Chlorobenzene         ND         4.3         0           75-00-3         Chlorobenane         ND         <		1,2-Dibromo-3-Chloropropane	ND		4.3	2.1
107-06-2         1,2-Dichloroethane         ND         4.3         0           78-87-5         1,2-Dichloropropane         ND         4.3         0           541-73-1         1,3-Dichlorobenzene         ND         4.3         0           106-46-7         1,4-Dichlorobenzene         ND         4.3         0           78-93-3         2-Butanone (MEK)         ND         21         0           591-78-6         2-Hexanone         ND         21         0           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         21         0           67-64-1         Acetone         ND         21         0           71-43-2         Benzene         ND         4.3         0           75-27-4         Bromodichloromethane         ND         4.3         0           75-25-2         Bromodichloromethane         ND         4.3         0           75-15-0         Carbon disulfide         ND         4.3         0           75-15-0         Carbon tetrachloride         ND         4.3         0           108-90-7         Chlorobenzene         ND         4.3         0           75-00-3         Chlorobenzene         ND         4.3 <td>106-93-4</td> <td>1,2-Dibromoethane</td> <td>ND</td> <td></td> <td>4.3</td> <td>0.55</td>	106-93-4	1,2-Dibromoethane	ND		4.3	0.55
78-87-5       1,2-Dichloropropane       ND       4.3         541-73-1       1,3-Dichlorobenzene       ND       4.3       0         106-46-7       1,4-Dichlorobenzene       ND       4.3       0         78-87-5       2-Butanone (MEK)       ND       4.3       0         78-93-3       2-Butanone (MEK)       ND       21       0         591-78-6       2-Hexanone       ND       21       0         108-10-1       4-Methyl-2-pentanone (MIBK)       ND       21       0         67-64-1       Acetone       ND       4.3       0         71-43-2       Benzene       ND       4.3       0         75-27-4       Bromodichloromethane       ND       4.3       0         75-25-2       Bromoform       ND       4.3       0         75-15-0       Carbon disulfide       ND       4.3       0         75-25-2       Bromomethane       ND       4.3       0         75-25-2       Bromotore       ND       4.3       0         75-15-0       Carbon disulfide       ND       4.3       0         108-90-7       Chlorobenzene       ND       4.3       0         75-	95-50-1	1,2-Dichlorobenzene	ND		4.3	0.33
541-73-1         1,3-Dichlorobenzene         ND         4.3         0           106-46-7         1,4-Dichlorobenzene         ND         4.3         0           78-93-3         2-Butanone (MEK)         ND         21         1           591-78-6         2-Hexanone         ND         21         1           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         21         1           67-64-1         Acetone         ND         21         1           71-43-2         Benzene         ND         4.3         0           75-27-4         Bromodichloromethane         ND         4.3         0           75-25-2         Bromoform         ND         4.3         0           74-83-9         Bromomethane         ND         4.3         0           75-15-0         Carbon disulfide         ND         4.3         0           108-90-7         Chlorobenzene         ND         4.3         0           75-00-3         Chlorobenzene         ND         4.3         0           67-66-3         Chloroform         ND         4.3         0           74-87-3         Chloroformethane         ND         4.3         0	107-06-2	1,2-Dichloroethane	ND		4.3	0.21
106-46-7         1,4-Dichlorobenzene         ND         4.3         0           78-93-3         2-Butanone (MEK)         ND         21         1           591-78-6         2-Hexanone         ND         21         1           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         21         1           67-64-1         Acetone         ND         21         1           71-43-2         Benzene         ND         4.3         0           75-27-4         Bromodichloromethane         ND         4.3         0           75-25-2         Bromodichloromethane         ND         4.3         0           74-83-9         Bromomethane         ND         4.3         0           75-15-0         Carbon disulfide         ND         4.3         0           108-90-7         Chlorobenzene         ND         4.3         0           75-00-3         Chlorobenzene         ND         4.3         0           67-66-3         Chloroform         ND         4.3         0           74-87-3         Chloromethane         ND         4.3         0	78-87-5		ND		4.3	2.1
78-93-3       2-Butanone (MEK)       ND       21         591-78-6       2-Hexanone       ND       21         108-10-1       4-Methyl-2-pentanone (MIBK)       ND       21         67-64-1       Acetone       ND       21         71-43-2       Benzene       ND       4.3       0         75-27-4       Bromodichloromethane       ND       4.3       0         75-25-2       Bromodichloromethane       ND       4.3       0         75-25-2       Bromodichloromethane       ND       4.3       0         75-15-0       Carbon disulfide       ND       4.3       0         75-25-5       Carbon tetrachloride       ND       4.3       0         75-15-0       Carbon disulfide       ND       4.3       0         108-90-7       Chlorobenzene       ND       4.3       0         108-90-7       Chlorobenzene       ND       4.3       0         67-66-3       Chloroform       ND       4.3       0         74-87-3       Chloromethane       ND       4.3       0         156-59-2       cis-1,2-Dichloroethene       1.7       J       4.3       0	541-73-1	1,3-Dichlorobenzene	ND		4.3	0.22
591-78-6         2-Hexanone         ND         21           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         21           67-64-1         Acetone         ND         21           71-43-2         Benzene         ND         4.3         0           75-27-4         Bromodichloromethane         ND         4.3         0           75-25-2         Bromoform         ND         4.3         0           74-83-9         Bromomethane         ND         4.3         0           75-15-0         Carbon disulfide         ND         4.3         0           108-90-7         Chlorobenzene         ND         4.3         0           75-00-3         Chlorobenzene         ND         4.3         0           75-00-3         Chloroform         ND         4.3         0           67-66-3         Chloroform         ND         4.3         0           74-87-3         Chloromethane         ND         4.3         0	106-46-7	1,4-Dichlorobenzene	ND		4.3	0.60
108-10-1         4-Methyl-2-pentanone (MIBK)         ND         21           67-64-1         Acetone         ND         21           71-43-2         Benzene         ND         4.3         0           75-27-4         Bromodichloromethane         ND         4.3         0           75-25-2         Bromoform         ND         4.3         0           74-83-9         Bromomethane         ND         4.3         0           75-15-0         Carbon disulfide         ND         4.3         0           56-23-5         Carbon tetrachloride         ND         4.3         0           108-90-7         Chlorobenzene         ND         4.3         0           75-00-3         Chlorotform         ND         4.3         0           67-66-3         Chloroferm         ND         4.3         0           74-87-3         Chloromethane         ND         4.3         0	78-93-3		ND		21	1.6
67-64-1         Acetone         ND         21           71-43-2         Benzene         ND         4.3         0           75-27-4         Bromodichloromethane         ND         4.3         0           75-25-2         Bromoform         ND         4.3         0           74-83-9         Bromomethane         ND         4.3         0           75-15-0         Carbon disulfide         ND         4.3         0           75-23-5         Carbon tetrachloride         ND         4.3         0           75-15-0         Carbon tetrachloride         ND         4.3         0           108-90-7         Chlorobenzene         ND         4.3         0           75-00-3         Chloroethane         ND         4.3         0           67-66-3         Chloroform         ND         4.3         0           74-87-3         Chloromethane         ND         4.3         0			ND		21	2.1
71-43-2         Benzene         ND         4.3         0           75-27-4         Bromodichloromethane         ND         4.3         0           75-25-2         Bromoform         ND         4.3         0           74-83-9         Bromomethane         ND         4.3         0           75-15-0         Carbon disulfide         ND         4.3         0           75-23-5         Carbon tetrachloride         ND         4.3         0           56-23-5         Carbon tetrachloride         ND         4.3         0           108-90-7         Chlorobenzene         ND         4.3         0           75-00-3         Chloroform         ND         4.3         0           67-66-3         Chloroform         ND         4.3         0           74-87-3         Chloromethane         ND         4.3         0		4-Methyl-2-pentanone (MIBK)	ND			1.4
75-27-4         Bromodichloromethane         ND         4.3         0           75-25-2         Bromoform         ND         4.3         0           74-83-9         Bromomethane         ND         4.3         0           75-15-0         Carbon disulfide         ND         4.3         0           56-23-5         Carbon tetrachloride         ND         4.3         0           108-90-7         Chlorobenzene         ND         4.3         0           75-00-3         Chlorobenzene         ND         4.3         0           67-66-3         Chloroform         ND         4.3         0           74-87-3         Chloromethane         ND         4.3         0	67-64-1	Acetone	ND		21	3.6
75-25-2         Bromoform         ND         4.3           74-83-9         Bromomethane         ND         4.3         0           75-15-0         Carbon disulfide         ND         4.3         0           56-23-5         Carbon tetrachloride         ND         4.3         0           108-90-7         Chlorobenzene         ND         4.3         0           75-00-3         Chloroethane         ND         4.3         0           67-66-3         Chloroform         ND         4.3         0           74-87-3         Chloromethane         ND         4.3         0           156-59-2         cis-1,2-Dichloroethene         1.7         J         4.3         0		Benzene	ND		4.3	0.21
74-83-9         Bromomethane         ND         4.3         0           75-15-0         Carbon disulfide         ND         4.3         0           56-23-5         Carbon tetrachloride         ND         4.3         0           108-90-7         Chlorobenzene         ND         4.3         0           75-00-3         Chloroethane         ND         4.3         0           67-66-3         Chlorom         ND         4.3         0           74-87-3         Chloromethane         ND         4.3         0           156-59-2         cis-1,2-Dichloroethene         1.7         J         4.3         0	75-27-4	Bromodichloromethane	ND		4.3	0.57
75-15-0         Carbon disulfide         ND         4.3           56-23-5         Carbon tetrachloride         ND         4.3         0           108-90-7         Chlorobenzene         ND         4.3         0           75-00-3         Chloroethane         ND         4.3         0           67-66-3         Chloroform         ND         4.3         0           74-87-3         Chloromethane         ND         4.3         0           156-59-2         cis-1,2-Dichloroethene         1.7         J         4.3         0		Bromoform	ND		4.3	2.1
56-23-5         Carbon tetrachloride         ND         4.3         0           108-90-7         Chlorobenzene         ND         4.3         0           75-00-3         Chloroethane         ND         4.3         0           67-66-3         Chloroform         ND         4.3         0           74-87-3         Chloromethane         ND         4.3         0           156-59-2         cis-1,2-Dichloroethene         1.7         J         4.3         0	74-83-9	Bromomethane	ND		4.3	0.38
108-90-7         Chlorobenzene         ND         4.3         0           75-00-3         Chloroethane         ND         4.3         0           67-66-3         Chloroform         ND         4.3         0           74-87-3         Chloromethane         ND         4.3         0           156-59-2         cis-1,2-Dichloroethene         1.7         J         4.3         0	75-15-0	Carbon disulfide	ND		4.3	2.1
75-00-3         Chloroethane         ND         4.3         0           67-66-3         Chloroform         ND         4.3         0           74-87-3         Chloromethane         ND         4.3         0           156-59-2         cis-1,2-Dichloroethene         1.7         J         4.3         0		Carbon tetrachloride	ND		4.3	0.41
67-66-3         Chloroform         ND         4.3         0           74-87-3         Chloromethane         ND         4.3         0           156-59-2         cis-1,2-Dichloroethene         1.7         J         4.3         0	108-90-7	Chlorobenzene	ND		4.3	0.56
74-87-3         Chloromethane         ND         4.3         0           156-59-2         cis-1,2-Dichloroethene         1.7         J         4.3         0	75-00-3	Chloroethane	ND		4.3	0.97
156-59-2         cis-1,2-Dichloroethene         1.7         J         4.3         0	67-66-3	Chloroform	ND		4.3	0.26
	74-87-3	Chloromethane	ND		4.3	0.26
	156-59-2		1.7	J	4.3	0.55
10061-01-5   CIS-1, 3-DICALOROPROPENE   ND   4.3   0	10061-01-5	cis-1,3-Dichloropropene	ND		4.3	0.62
110-82-7 Cyclohexane ND 4.3 0	110-82-7	Cyclohexane	ND		4.3	0.60
124-48-1         Dibromochloromethane         ND         4.3         0	124-48-1	Dibromochloromethane	ND		4.3	0.55
75-71-8DichlorodifluoromethaneND4.30	75-71-8	Dichlorodifluoromethane	ND		4.3	0.35

Lab Name: Eurofins Buffalo	Job No.: <u>480-197309-1</u>
SDG No.:	
Client Sample ID: PDI-11_0304	Lab Sample ID: <u>480-197309-9</u>
Matrix: Solid	Lab File ID: M03451.D
Analysis Method: 8260C	Date Collected: 04/28/2022 13:11
Sample wt/vol: 6.674(g)	Date Analyzed: 05/02/2022 18:31
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: ZB-624 (30) VOA ID: 0.25(mm)
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) Y pH:
% Moisture: 12.4 % Solids: 87.6	Level: (low/med) Low
Analysis Batch No.: 624070	Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	ND		4.3	0.30
98-82-8	Isopropylbenzene	ND		4.3	0.64
79-20-9	Methyl acetate	ND		21	2.6
1634-04-4	Methyl tert-butyl ether	ND		4.3	0.42
108-87-2	Methylcyclohexane	ND		4.3	0.65
75-09-2	Methylene Chloride	ND		4.3	2.0
100-42-5	Styrene	ND		4.3	0.21
127-18-4	Tetrachloroethene	ND		4.3	0.57
108-88-3	Toluene	ND		4.3	0.32
156-60-5	trans-1,2-Dichloroethene	ND		4.3	0.44
10061-02-6	trans-1,3-Dichloropropene	ND		4.3	1.9
79-01-6	Trichloroethene	ND		4.3	0.94
75-69-4	Trichlorofluoromethane	ND		4.3	0.40
75-01-4	Vinyl chloride	ND		4.3	0.52
1330-20-7	Xylenes, Total	ND		8.6	0.72

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		64-126
460-00-4	4-Bromofluorobenzene (Surr)	96		72-126
1868-53-7	Dibromofluoromethane (Surr)	101		60-140
2037-26-5	Toluene-d8 (Surr)	95		71-125

Lab Name: Eurofins Buffalo	Job No.: <u>480-197309-1</u>		
SDG No.:			
Client Sample ID: PDI-11_GW	Lab Sample ID: <u>480-197309-10</u>		
Matrix: Water	Lab File ID: T9154.D		
Analysis Method: 8260C	Date Collected: 04/28/2022 11:34		
Sample wt/vol: 5(mL)	Date Analyzed: 05/06/2022 19:57		
Soil Aliquot Vol:	Dilution Factor: 5		
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)		
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) N pH: 7.0		
<pre>% Moisture: % Solids:</pre>	Level: (low/med) Low		
Analysis Batch No.: 624854	Units: ug/L		

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	UJ	5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	ND	UJ	5.0	1.1
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan e	ND	UJ	5.0	1.6
79-00-5	1,1,2-Trichloroethane	ND	UJ	5.0	1.2
75-34-3	1,1-Dichloroethane	53	J	5.0	1.9
75-35-4	1,1-Dichloroethene	ND	UJ	5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	ND	UJ	5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND	UJ	5.0	2.0
106-93-4	1,2-Dibromoethane	ND	UJ	5.0	3.7
95-50-1	1,2-Dichlorobenzene	ND	UJ	5.0	4.0
107-06-2	1,2-Dichloroethane	ND	UJ	5.0	1.1
78-87-5	1,2-Dichloropropane	ND	UJ	5.0	3.6
541-73-1	1,3-Dichlorobenzene	ND	UJ	5.0	3.9
106-46-7	1,4-Dichlorobenzene	ND	UJ	5.0	4.2
78-93-3	2-Butanone (MEK)	ND	UJ	50	6.6
591-78-6	2-Hexanone	ND	UJ	25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	UJ	25	11
67-64-1	Acetone	73	J	50	15
71-43-2	Benzene	ND	UJ	5.0	2.1
75-27-4	Bromodichloromethane	ND	UJ	5.0	2.0
75-25-2	Bromoform	ND	UJ	5.0	1.3
74-83-9	Bromomethane	ND	UJ	5.0	3.5
75-15-0	Carbon disulfide	ND	UJ	5.0	0.95
56-23-5	Carbon tetrachloride	ND	UJ	5.0	1.4
108-90-7	Chlorobenzene	ND	UJ	5.0	3.8
75-00-3	Chloroethane	2.1	J	5.0	1.6
67-66-3	Chloroform	ND	UJ	5.0	1.7
74-87-3	Chloromethane	ND	UJ	5.0	1.8
156-59-2	cis-1,2-Dichloroethene	300	J	5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	ND	UJ	5.0	1.8
110-82-7	Cyclohexane	ND	UJ	5.0	0.90
124-48-1	Dibromochloromethane	ND	UJ	5.0	1.6
75-71-8	Dichlorodifluoromethane	ND	UJ	5.0	3.4

Lab Name: Eurofins Buffalo	Job No.: <u>480-197309-1</u>
SDG No.:	
Client Sample ID: PDI-11_GW	Lab Sample ID: <u>480-197309-10</u>
Matrix: Water	Lab File ID: T9154.D
Analysis Method: 8260C	Date Collected: 04/28/2022 11:34
Sample wt/vol: 5(mL)	Date Analyzed: 05/06/2022 19:57
Soil Aliquot Vol:	Dilution Factor: 5
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) N pH: 7.0
% Moisture: % Solids:	Level: (low/med) Low
Analysis Batch No.: 624854	Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	ND	UJ	5.0	3.7
98-82-8	Isopropylbenzene	ND	UJ	5.0	4.0
79-20-9	Methyl acetate	ND	UJ	13	6.5
1634-04-4	Methyl tert-butyl ether	ND	UJ	5.0	0.80
108-87-2	Methylcyclohexane	ND	UJ	5.0	0.80
75-09-2	Methylene Chloride	ND	UJ	5.0	2.2
100-42-5	Styrene	ND	UJ	5.0	3.7
127-18-4	Tetrachloroethene	6.3	J	5.0	1.8
108-88-3	Toluene	ND	UJ	5.0	2.6
156-60-5	trans-1,2-Dichloroethene	ND	UJ	5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	ND	UJ	5.0	1.9
79-01-6	Trichloroethene	52	J	5.0	2.3
75-69-4	Trichlorofluoromethane	ND	UJ	5.0	4.4
75-01-4	Vinyl chloride	7.6	J	5.0	4.5
1330-20-7	Xylenes, Total	ND	UJ	10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		77-120
460-00-4	4-Bromofluorobenzene (Surr)	87		73-120
1868-53-7	Dibromofluoromethane (Surr)	94		75-123
2037-26-5	Toluene-d8 (Surr)	97		80-120

Lab Name: Eurofins Buffalo	Job No.: <u>480-197309-1</u>				
SDG No.:					
Client Sample ID: PDI-12_0405	Lab Sample ID: <u>480-197309-11</u>				
Matrix: Solid	Lab File ID: M03452.D				
Analysis Method: 8260C	Date Collected: 04/28/2022 14:21				
Sample wt/vol: 6.66(g)	Date Analyzed: 05/02/2022 18:55				
Soil Aliquot Vol:	Dilution Factor: 1				
Soil Extract Vol.:	GC Column: ZB-624 (30) VOA ID: 0.25(mm)				
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) Y pH:				
% Moisture: 12.8 % Solids: 87.2	Level: (low/med) Low				
Analysis Batch No.: 624070	Units: ug/Kg				

79-34-5         1,1,2,2-Tetrachloroethane         ND         4.3         0.7           76-13-1         1,1,2-Trichloro-1,2,2-trifluoroethan         ND         4.3         0.9           79-00-5         1,1,2-Trichloroethane         ND         4.3         0.5           75-34-3         1,1-Dichloroethane         ND         4.3         0.5           75-35-4         1,1-Dichloroethane         ND         4.3         0.5           75-35-4         1,2-Dichloroethane         ND         4.3         0.2           96-12-8         1,2-Dibromo-3-Chloropropane         ND         4.3         0.2           95-50-1         1,2-Dibromoethane         ND         4.3         0.2           95-50-1         1,2-Dichlorobenzene         ND         4.3         0.2           78-87-5         1,2-Dichlorobenzene         ND         4.3         0.2           541-73-1         1,3-Dichlorobenzene         ND         4.3         0.2           59-50-1         1,2-Dichlorobenzene         ND         4.3         0.2           541-73-1         1,3-Dichlorobenzene         ND         4.3         0.2           106-46-7         1,4-Dichlorobenzene         ND         4.3         0.6	CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1         1,1,2-Trichloro-1,2,2-trifluoroethan e         ND         4.3         0.9           79-00-5         1,1,2-Trichloroethane         ND         4.3         0.5           75-34-3         1,1-Dichloroethane         ND         4.3         0.5           75-35-4         1,1-Dichloroethane         ND         4.3         0.5           120-82-1         1,2,4-Trichlorobenzene         ND         4.3         0.2           96-12-8         1,2-Dibromo-3-Chloropropane         ND         4.3         0.2           96-53-4         1,2-Dibromo-3-Chloropropane         ND         4.3         0.2           95-50-1         1,2-Dichlorobenzene         ND         4.3         0.2           107-06-2         1,2-Dichlorobenzene         ND         4.3         0.2           106-46-7         1,4-Dichlorobenzene         ND         4.3         0.2           106-46-7         1,4-Dichlorobenzene         ND         4.3         0.2           106-46-7         1,4-Dichlorobenzene         ND         4.3         0.2           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         22         1.           591-78-6         2-Hexanone         ND         4.3         0.2	71-55-6	1,1,1-Trichloroethane	ND		4.3	0.31
e         ND         4.3         0.5           79-00-5         1,1,2-Trichloroethane         ND         4.3         0.5           75-34-3         1,1-Dichloroethane         ND         4.3         0.5           75-35-4         1,1-Dichloroethane         ND         4.3         0.5           120-82-1         1,2,4-Trichlorobenzene         ND         4.3         0.2           96-12-8         1,2-Dibromo-3-Chloropropane         ND         4.3         0.2           106-93-4         1,2-Dibromo-thane         ND         4.3         0.5           95-50-1         1,2-Dichlorobenzene         ND         4.3         0.2           98-87-5         1,2-Dichlorobenzene         ND         4.3         0.2           541-73-1         1,3-Dichlorobenzene         ND         4.3         0.2           106-64-7         1,4-Dichlorobenzene         ND         4.3         0.6           78-93-3         2-Butanone (MEK)         3.8         J         22         1.           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         22         1.           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         4.3         0.2           75-25-2	79-34-5	1,1,2,2-Tetrachloroethane	ND		4.3	0.70
75-34-3         1,1-Dichloroethane         ND         4.3         0.5           75-35-4         1,1-Dichloroethane         ND         4.3         0.5           120-82-1         1,2,4-Trichlorobenzene         ND         4.3         0.2           106-93-4         1,2-Dibromo-3-Chloropropane         ND         4.3         0.2           106-93-4         1,2-Dibromo-3-Chloropropane         ND         4.3         0.5           95-50-1         1,2-Dichlorobenzene         ND         4.3         0.3           107-06-2         1,2-Dichloropropane         ND         4.3         0.2           541-73-1         1,3-Dichloropengane         ND         4.3         0.2           106-46-7         1,4-Dichlorobenzene         ND         4.3         0.2           106-46-7         1,4-Dichlorobenzene         ND         4.3         0.2           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         22         1.           67-64-1         Acetone         48         222         3.           71-43-2         Benzene         ND         4.3         0.5           75-25-2         Bromodichloromethane         ND         4.3         0.5           75-25-2	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan e	ND		4.3	0.98
75-35-4         1,1-Dichloroethene         ND         4.3         0.5           120-82-1         1,2,4-Trichlorobenzene         ND         4.3         0.2           96-12-8         1,2-Dibromo-3-Chloropropane         ND         4.3         0.2           106-93-4         1,2-Dibromo-3-Chloropropane         ND         4.3         0.5           106-93-4         1,2-Dichlorobenzene         ND         4.3         0.3           107-06-2         1,2-Dichlorobenzene         ND         4.3         0.2           541-73-1         1,3-Dichlorobenzene         ND         4.3         0.2           541-73-1         1,3-Dichlorobenzene         ND         4.3         0.2           106-46-7         1,4-Dichlorobenzene         ND         4.3         0.2           106-46-7         1,4-Dichlorobenzene         ND         4.3         0.2           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         22         2.           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         4.3         0.2           71-43-2         Benzene         ND         4.3         0.2           75-27-4         Bromodichloromethane         ND         4.3         0.3	79-00-5	1,1,2-Trichloroethane	ND		4.3	0.56
120-82-1         1,2,4-Trichlorobenzene         ND         4.3         0.2           96-12-8         1,2-Dibromo-3-Chloropropane         ND         4.3         2.           106-93-4         1,2-Dibromoethane         ND         4.3         0.5           95-50-1         1,2-Dichlorobenzene         ND         4.3         0.3           107-06-2         1,2-Dichloroethane         ND         4.3         0.2           78-87-5         1,2-Dichloroethane         ND         4.3         0.2           78-87-5         1,2-Dichloroethane         ND         4.3         0.2           107-06-2         1,4-Dichlorobenzene         ND         4.3         0.2           78-87-5         1,2-Dichlorobenzene         ND         4.3         0.2           106-46-7         1,4-Dichlorobenzene         ND         4.3         0.2           108-10-1         4-Methyl-2-pentanone (MIEK)         3.8         J         22         1.           591-78-6         2-Hexanone         ND         4.3         0.2           108-10-1         4-Methyl-2-pentanone (MIEK)         ND         4.3         0.2           75-27-4         Bromodichloromethane         ND         4.3         0.5	75-34-3		ND		4.3	0.53
96-12-8         1,2-Dibromo-3-Chloropropane         ND         4.3         2.           106-93-4         1,2-Dibromoethane         ND         4.3         0.5           95-50-1         1,2-Dichlorobenzene         ND         4.3         0.3           107-06-2         1,2-Dichlorobenzene         ND         4.3         0.2           78-87-5         1,2-Dichloropropane         ND         4.3         0.2           541-73-1         1,3-Dichlorobenzene         ND         4.3         0.2           106-46-7         1,4-Dichlorobenzene         ND         4.3         0.2           106-46-7         1,4-Dichlorobenzene         ND         4.3         0.2           108-10-1         4-Methyl-2-pentanone (MEK)         3.8         J         22         1.           591-78-6         2-Hexanone         ND         22         2.         1.           67-64-1         Acetone         MB         22         3.         71-43-2           Benzene         ND         4.3         0.2         1.           75-27-4         Bromodichloromethane         ND         4.3         0.3           75-25-2         Bromomethane         ND         4.3         0.3	75-35-4	1,1-Dichloroethene	ND		4.3	0.53
106-93-4         1,2-Dibromoethane         ND         4.3         0.5           95-50-1         1,2-Dichlorobenzene         ND         4.3         0.3           107-06-2         1,2-Dichlorobenzene         ND         4.3         0.2           78-87-5         1,2-Dichloropropane         ND         4.3         0.2           541-73-1         1,3-Dichlorobenzene         ND         4.3         0.2           106-46-7         1,4-Dichlorobenzene         ND         4.3         0.6           78-87-5         2-Butanone (MEK)         3.8         J         22         1.           591-78-6         2-Hexanone         ND         22         2.         1.           67-64-1         Acetone         48         22         3.           71-43-2         Benzene         ND         4.3         0.2           75-27-4         Bromodichloromethane         ND         4.3         0.3           75-25-2         Bromoform         ND         4.3         0.3           75-25-2         Bromodichloromethane         ND         4.3         0.3           74-83-9         Bromomethane         ND         4.3         0.5           75-00-3         Chlorobenz	120-82-1	1,2,4-Trichlorobenzene	ND		4.3	0.26
Bys-So-1         1,2-Dichlorobenzene         ND         4.3         0.3           107-06-2         1,2-Dichlorobenzene         ND         4.3         0.2           78-87-5         1,2-Dichloropropane         ND         4.3         0.2           541-73-1         1,3-Dichlorobenzene         ND         4.3         0.2           106-46-7         1,4-Dichlorobenzene         ND         4.3         0.2           106-46-7         1,4-Dichlorobenzene         ND         4.3         0.6           78-87-5         2-Butanone (MEK)         3.8         J         22         1.           591-78-6         2-Hexanone         ND         22         2.         1.           67-64-1         Acetone         48         22         3.           71-43-2         Benzene         ND         4.3         0.2           75-27-4         Bromodichloromethane         ND         4.3         0.2           75-25-2         Bromoform         ND         4.3         0.3           75-15-0         Carbon disulfide         ND         4.3         0.4           108-90-7         Chlorobenzene         ND         4.3         0.5           75-00-3         Chloroben	96-12-8	1,2-Dibromo-3-Chloropropane	ND		4.3	2.2
107-06-2         1,2-Dichloroethane         ND         4.3         0.2           78-87-5         1,2-Dichloropropane         ND         4.3         2.           541-73-1         1,3-Dichlorobenzene         ND         4.3         0.2           106-46-7         1,4-Dichlorobenzene         ND         4.3         0.2           106-46-7         1,4-Dichlorobenzene         ND         4.3         0.6           78-93-3         2-Butanone (MEK)         3.8         J         22         1.           591-78-6         2-Hexanone         ND         22         2.         1.           67-64-1         Acetone         48         22         3.         71-43-2         Benzene         ND         4.3         0.2           75-27-4         Bromodichloromethane         ND         4.3         0.5         7.           75-25-2         Bromoform         ND         4.3         0.3         2.           74-83-9         Bromomethane         ND         4.3         0.3           75-15-0         Carbon disulfide         ND         4.3         0.4           108-90-7         Chlorobenzene         ND         4.3         0.5           75-00-3 <t< td=""><td>106-93-4</td><td>1,2-Dibromoethane</td><td>ND</td><td></td><td>4.3</td><td>0.55</td></t<>	106-93-4	1,2-Dibromoethane	ND		4.3	0.55
78-87-5         1,2-Dichloropropane         ND         4.3         2.           541-73-1         1,3-Dichlorobenzene         ND         4.3         0.2           106-46-7         1,4-Dichlorobenzene         ND         4.3         0.6           78-93-3         2-Butanone (MEK)         3.8         J         22         1.           591-78-6         2-Hexanone         ND         22         2.         1.           67-64-1         Acetone         MB         22         3.         71-43-2           8nzene         ND         4.3         0.2         3.         71-43-2         Benzene         ND         4.3         0.2           75-27-4         Bromodichloromethane         ND         4.3         0.2         3.         75-2         3.         74-83-9         Bromoethane         ND         4.3         0.3         3.	95-50-1	1,2-Dichlorobenzene	ND		4.3	0.34
541-73-1         1,3-Dichlorobenzene         ND         4.3         0.2           106-46-7         1,4-Dichlorobenzene         ND         4.3         0.6           78-93-3         2-Butanone (MEK)         3.8         J         22         1.           591-78-6         2-Hexanone         ND         22         2.           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         22         1.           67-64-1         Acetone         48         22         3.           71-43-2         Benzene         ND         4.3         0.2           75-27-4         Bromodichloromethane         ND         4.3         0.2           75-27-4         Bromodichloromethane         ND         4.3         0.5           75-25-2         Bromodichloromethane         ND         4.3         0.3           75-15-0         Carbon disulfide         ND         4.3         0.4           108-90-7         Chlorobenzene         ND         4.3         0.4           108-90-7         Chlorobenzene         ND         4.3         0.5           75-00-3         Chlorobenzene         ND         4.3         0.2           74-87-3         Chloromethane	107-06-2	1,2-Dichloroethane	ND		4.3	0.22
106-46-7         1,4-Dichlorobenzene         ND         4.3         0.6           78-93-3         2-Butanone (MEK)         3.8         J         22         1.           591-78-6         2-Hexanone         ND         22         2.           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         22         1.           67-64-1         Acetone         48         22         3.           71-43-2         Benzene         ND         4.3         0.2           75-27-4         Bromodichloromethane         ND         4.3         0.5           75-25-2         Bromomethane         ND         4.3         0.3           75-15-0         Carbon disulfide         ND         4.3         0.3           75-15-0         Carbon tetrachloride         ND         4.3         0.4           108-90-7         Chlorobenzene         ND         4.3         0.4           108-90-7         Chlorobenzene         ND         4.3         0.2           75-00-3         Chlorobenzene         ND         4.3         0.2           74-87-3         Chlorobenzene         ND         4.3         0.2           74-87-3         Chlorobendane         ND	78-87-5	1,2-Dichloropropane	ND		4.3	2.2
78-93-3         2-Butanone (MEK)         3.8         J         22         1.           591-78-6         2-Hexanone         ND         22         2.           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         22         1.           67-64-1         Acetone         48         22         3.           71-43-2         Benzene         ND         4.3         0.2           75-27-4         Bromodichloromethane         ND         4.3         0.5           75-25-2         Bromoform         ND         4.3         0.3           75-15-0         Carbon disulfide         ND         4.3         0.3           75-25-2         Bromomethane         ND         4.3         0.3           75-15-0         Carbon disulfide         ND         4.3         0.3           75-25-2         Carbon tetrachloride         ND         4.3         0.3           75-15-0         Carbon disulfide         ND         4.3         0.3           75-07-3         Chlorobenzene         ND         4.3         0.5           75-00-3         Chloroform         ND         4.3         0.2           74-87-3         Chloromethane         ND <t< td=""><td>541-73-1</td><td>1,3-Dichlorobenzene</td><td>ND</td><td></td><td>4.3</td><td>0.22</td></t<>	541-73-1	1,3-Dichlorobenzene	ND		4.3	0.22
591-78-6         2-Hexanone         ND         22         2.           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         ND         22         1.           67-64-1         Acetone         48         22         3.           71-43-2         Benzene         ND         4.3         0.2           75-27-4         Bromodichloromethane         ND         4.3         0.5           75-25-2         Bromoform         ND         4.3         0.3           75-25-2         Bromodichloromethane         ND         4.3         0.3           75-25-2         Bromoform         ND         4.3         0.3           75-50         Carbon disulfide         ND         4.3         0.3           75-15-0         Carbon tetrachloride         ND         4.3         0.4           108-90-7         Chlorobenzene         ND         4.3         0.5           75-00-3         Chloroform         ND         4.3         0.2           67-66-3         Chloroform         ND         4.3         0.2           74-87-3         Chloromethane         ND         4.3         0.2           156-59-2         cis-1, 3-Dichloropropene         ND	106-46-7	1,4-Dichlorobenzene	ND		4.3	0.60
108-10-1         4-Methyl-2-pentanone (MIBK)         ND         22         1.           67-64-1         Acetone         448         22         3.           71-43-2         Benzene         ND         4.3         0.2           75-27-4         Bromodichloromethane         ND         4.3         0.5           75-25-2         Bromodichloromethane         ND         4.3         0.3           75-25-2         Bromomethane         ND         4.3         0.3           75-15-0         Carbon disulfide         ND         4.3         0.3           75-15-0         Carbon tetrachloride         ND         4.3         0.3           75-25-2         Carbon disulfide         ND         4.3         0.3           75-15-0         Carbon disulfide         ND         4.3         0.3           75-15-0         Carbon tetrachloride         ND         4.3         0.4           108-90-7         Chlorobenzene         ND         4.3         0.5           75-00-3         Chloroform         ND         4.3         0.2           74-87-3         Chloroform         ND         4.3         0.2           156-59-2         cis-1,2-Dichloroethene         ND	78-93-3	2-Butanone (MEK)	3.8	J	22	1.6
67-64-1         Acetone         48         22         3.           71-43-2         Benzene         ND         4.3         0.2           75-27-4         Bromodichloromethane         ND         4.3         0.5           75-27-4         Bromodichloromethane         ND         4.3         0.5           75-27-4         Bromodichloromethane         ND         4.3         0.5           75-25-2         Bromoform         ND         4.3         0.3           74-83-9         Bromomethane         ND         4.3         0.3           75-15-0         Carbon disulfide         ND         4.3         0.3           75-25-2         Carbon tetrachloride         ND         4.3         0.3           75-15-0         Carbon disulfide         ND         4.3         0.4           108-90-7         Chlorobenzene         ND         4.3         0.5           75-00-3         Chloroform         ND         4.3         0.2           74-87-3         Chloroform         ND         4.3         0.2           74-87-3         Chloromethane         ND         4.3         0.5           10061-01-5         cis-1, 3-Dichloropropene         ND         4.3 </td <td>591-78-6</td> <td>2-Hexanone</td> <td>ND</td> <td></td> <td>22</td> <td>2.2</td>	591-78-6	2-Hexanone	ND		22	2.2
71-43-2         Benzene         ND         4.3         0.2           75-27-4         Bromodichloromethane         ND         4.3         0.5           75-27-4         Bromodichloromethane         ND         4.3         0.5           75-25-2         Bromoform         ND         4.3         0.3           74-83-9         Bromomethane         ND         4.3         0.3           75-15-0         Carbon disulfide         ND         4.3         0.3           56-23-5         Carbon tetrachloride         ND         4.3         0.4           108-90-7         Chlorobenzene         ND         4.3         0.5           75-00-3         Chloroform         ND         4.3         0.2           67-66-3         Chloroform         ND         4.3         0.2           74-87-3         Chloromethane         ND         4.3         0.2           156-59-2         cis-1,2-Dichloroethene         ND         4.3         0.5           10061-01-5         cis-1,3-Dichloropropene         ND         4.3         0.6           110-82-7         Cyclohexane         ND         4.3         0.6           124-48-1         Dibromochloromethane         ND	108-10-1	4-Methyl-2-pentanone (MIBK)	ND		22	1.4
75-27-4         Bromodichloromethane         ND         4.3         0.5           75-25-2         Bromoform         ND         4.3         2.           74-83-9         Bromomethane         ND         4.3         0.3           75-15-0         Carbon disulfide         ND         4.3         0.3           75-25-2         Bromomethane         ND         4.3         0.3           75-15-0         Carbon disulfide         ND         4.3         0.4           108-90-7         Chlorobenzene         ND         4.3         0.4           108-90-7         Chlorobenzene         ND         4.3         0.5           75-00-3         Chloroform         ND         4.3         0.2           74-87-3         Chloroform         ND         4.3         0.2           74-87-3         Chloromethane         ND         4.3         0.2           156-59-2         cis-1,2-Dichloroethene         ND         4.3         0.5           10061-01-5         cis-1,3-Dichloropropene         ND         4.3         0.6           110-82-7         Cyclohexane         ND         4.3         0.5	67-64-1	Acetone	48		22	3.6
75-25-2         Bromoform         ND         4.3         2.1           74-83-9         Bromomethane         ND         4.3         0.3           75-15-0         Carbon disulfide         ND         4.3         0.3           56-23-5         Carbon tetrachloride         ND         4.3         0.4           108-90-7         Chlorobenzene         ND         4.3         0.5           75-00-3         Chlorothane         ND         4.3         0.5           74-87-3         Chloroform         ND         4.3         0.2           74-87-3         Chloromethane         ND         4.3         0.2           74-87-3         Chloromethane         ND         4.3         0.2           1061-01-5         cis-1,2-Dichloroethene         ND         4.3         0.5           10061-01-5         cis-1,3-Dichloropropene         ND         4.3         0.6           110-82-7         Cyclohexane         ND         4.3         0.6           124-48-1         Dibromochloromethane         ND         4.3         0.5	71-43-2	Benzene	ND		4.3	0.21
74-83-9         Bromomethane         ND         4.3         0.3           75-15-0         Carbon disulfide         ND         4.3         2.3           56-23-5         Carbon tetrachloride         ND         4.3         0.4           108-90-7         Chlorobenzene         ND         4.3         0.5           75-00-3         Chloroethane         ND         4.3         0.9           67-66-3         Chloroform         ND         4.3         0.2           74-87-3         Chloromethane         ND         4.3         0.2           156-59-2         cis-1,2-Dichloroethene         ND         4.3         0.5           10061-01-5         cis-1,3-Dichloropropene         ND         4.3         0.6           110-82-7         Cyclohexane         ND         4.3         0.5           124-48-1         Dibromochloromethane         ND         4.3         0.5	75-27-4	Bromodichloromethane	ND		4.3	0.58
75-15-0         Carbon disulfide         ND         4.3         2.1           56-23-5         Carbon tetrachloride         ND         4.3         0.4           108-90-7         Chlorobenzene         ND         4.3         0.5           75-00-3         Chloroethane         ND         4.3         0.9           67-66-3         Chloromethane         ND         4.3         0.2           74-87-3         Chloromethane         ND         4.3         0.2           1061-01-5         cis-1,2-Dichloroethene         ND         4.3         0.5           10061-01-5         cis-1,3-Dichloropropene         ND         4.3         0.6           110-82-7         Cyclohexane         ND         4.3         0.6           124-48-1         Dibromochloromethane         ND         4.3         0.5	75-25-2	Bromoform	ND		4.3	2.2
56-23-5         Carbon tetrachloride         ND         4.3         0.4           108-90-7         Chlorobenzene         ND         4.3         0.5           75-00-3         Chloroethane         ND         4.3         0.9           67-66-3         Chloromethane         ND         4.3         0.2           74-87-3         Chloromethane         ND         4.3         0.2           156-59-2         cis-1,2-Dichloroethene         ND         4.3         0.5           10061-01-5         cis-1,3-Dichloropropene         ND         4.3         0.6           110-82-7         Cyclohexane         ND         4.3         0.6           124-48-1         Dibromochloromethane         ND         4.3         0.5	74-83-9	Bromomethane	ND		4.3	0.39
108-90-7         Chlorobenzene         ND         4.3         0.5           75-00-3         Chloroethane         ND         4.3         0.9           67-66-3         Chloroform         ND         4.3         0.2           74-87-3         Chloromethane         ND         4.3         0.2           156-59-2         cis-1,2-Dichloroethene         ND         4.3         0.5           10061-01-5         cis-1,3-Dichloropropene         ND         4.3         0.6           110-82-7         Cyclohexane         ND         4.3         0.6           124-48-1         Dibromochloromethane         ND         4.3         0.5	75-15-0	Carbon disulfide	ND		4.3	2.2
75-00-3         Chloroethane         ND         4.3         0.9           67-66-3         Chloroform         ND         4.3         0.2           74-87-3         Chloromethane         ND         4.3         0.2           156-59-2         cis-1,2-Dichloroethene         ND         4.3         0.5           10061-01-5         cis-1,3-Dichloropropene         ND         4.3         0.6           110-82-7         Cyclohexane         ND         4.3         0.6           124-48-1         Dibromochloromethane         ND         4.3         0.5	56-23-5	Carbon tetrachloride	ND		4.3	0.42
67-66-3         Chloroform         ND         4.3         0.2           74-87-3         Chloromethane         ND         4.3         0.2           156-59-2         cis-1,2-Dichloroethene         ND         4.3         0.5           10061-01-5         cis-1,3-Dichloropropene         ND         4.3         0.6           110-82-7         Cyclohexane         ND         4.3         0.6           124-48-1         Dibromochloromethane         ND         4.3         0.5	108-90-7	Chlorobenzene	ND		4.3	0.57
74-87-3         Chloromethane         ND         4.3         0.2           156-59-2         cis-1,2-Dichloroethene         ND         4.3         0.5           10061-01-5         cis-1,3-Dichloropropene         ND         4.3         0.6           110-82-7         Cyclohexane         ND         4.3         0.6           124-48-1         Dibromochloromethane         ND         4.3         0.5	75-00-3	Chloroethane	ND		4.3	0.97
156-59-2         cis-1,2-Dichloroethene         ND         4.3         0.5           10061-01-5         cis-1,3-Dichloropropene         ND         4.3         0.6           110-82-7         Cyclohexane         ND         4.3         0.6           124-48-1         Dibromochloromethane         ND         4.3         0.5	67-66-3	Chloroform	ND		4.3	0.27
10061-01-5         cis-1,3-Dichloropropene         ND         4.3         0.6           110-82-7         Cyclohexane         ND         4.3         0.6           124-48-1         Dibromochloromethane         ND         4.3         0.5	74-87-3	Chloromethane	ND		4.3	0.26
110-82-7         Cyclohexane         ND         4.3         0.6           124-48-1         Dibromochloromethane         ND         4.3         0.5	156-59-2	cis-1,2-Dichloroethene	ND		4.3	0.55
124-48-1         Dibromochloromethane         ND         4.3         0.5	10061-01-5	cis-1,3-Dichloropropene	ND		4.3	0.62
	110-82-7	Cyclohexane	ND		4.3	0.60
75-71-8DichlorodifluoromethaneND4.30.3	124-48-1	Dibromochloromethane	ND		4.3	0.55
	75-71-8	Dichlorodifluoromethane	ND		4.3	0.36

Lab Name: Eurofins Buffalo	Job No.: 480-197309-1				
SDG No.:					
Client Sample ID: PDI-12_0405	Lab Sample ID: <u>480-197309-11</u>				
Matrix: Solid	Lab File ID: M03452.D				
Analysis Method: 8260C	Date Collected: 04/28/2022 14:21				
Sample wt/vol: 6.66(g)	Date Analyzed: 05/02/2022 18:55				
Soil Aliquot Vol:	Dilution Factor: 1				
Soil Extract Vol.:	GC Column: ZB-624 (30) VOA ID: 0.25(mm)				
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) Y pH:				
% Moisture: 12.8 % Solids: 87.2	Level: (low/med) Low				
Analysis Batch No.: 624070	Units: ug/Kg				

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	ND		4.3	0.30
98-82-8	Isopropylbenzene	ND		4.3	0.65
79-20-9	Methyl acetate	ND		22	2.6
1634-04-4	Methyl tert-butyl ether	ND		4.3	0.42
108-87-2	Methylcyclohexane	ND		4.3	0.65
75-09-2	Methylene Chloride	ND		4.3	2.0
100-42-5	Styrene	ND		4.3	0.22
127-18-4	Tetrachloroethene	ND		4.3	0.58
108-88-3	Toluene	ND		4.3	0.33
156-60-5	trans-1,2-Dichloroethene	ND		4.3	0.44
10061-02-6	trans-1,3-Dichloropropene	ND		4.3	1.9
79-01-6	Trichloroethene	ND		4.3	0.95
75-69-4	Trichlorofluoromethane	ND		4.3	0.41
75-01-4	Vinyl chloride	ND		4.3	0.53
1330-20-7	Xylenes, Total	ND		8.6	0.72

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		64-126
460-00-4	4-Bromofluorobenzene (Surr)	99		72-126
1868-53-7	Dibromofluoromethane (Surr)	106		60-140
2037-26-5	Toluene-d8 (Surr)	92		71-125

Lab Name: Eurofins Buffalo	Job No.: <u>480-197309-1</u>		
SDG No.:			
Client Sample ID: PDI-12_GW	Lab Sample ID: <u>480-197309-12</u>		
Matrix: Water	Lab File ID: T9155.D		
Analysis Method: 8260C	Date Collected: 04/28/2022 14:55		
Sample wt/vol: 5(mL)	Date Analyzed: 05/06/2022 20:20		
Soil Aliquot Vol:	Dilution Factor: 20		
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)		
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) N pH: 7.0		
% Moisture: % Solids:	Level: (low/med) Low		
Analysis Batch No.: 624854	Units: ug/L		

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	UJ	20	16
79-34-5	1,1,2,2-Tetrachloroethane	ND	UJ	20	4.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan e	ND	UJ	20	6.2
79-00-5	1,1,2-Trichloroethane	ND	UJ	20	4.6
75-34-3	1,1-Dichloroethane	20	J	20	7.6
75-35-4	1,1-Dichloroethene	ND	UJ	20	5.8
120-82-1	1,2,4-Trichlorobenzene	ND	UJ	20	8.2
96-12-8	1,2-Dibromo-3-Chloropropane	ND	UJ	20	7.8
106-93-4	1,2-Dibromoethane	ND	UJ	20	15
95-50-1	1,2-Dichlorobenzene	ND	UJ	20	16
107-06-2	1,2-Dichloroethane	ND	UJ	20	4.2
78-87-5	1,2-Dichloropropane	ND	UJ	20	14
541-73-1	1,3-Dichlorobenzene	ND	UJ	20	16
106-46-7	1,4-Dichlorobenzene	ND	UJ	20	17
78-93-3	2-Butanone (MEK)	ND	UJ	200	26
591-78-6	2-Hexanone	ND	UJ	100	25
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	UJ	100	42
67-64-1	Acetone	160	J	200	60
71-43-2	Benzene	ND	UJ	20	8.2
75-27-4	Bromodichloromethane	ND	UJ	20	7.8
75-25-2	Bromoform	ND	UJ	20	5.2
74-83-9	Bromomethane	ND	UJ	20	14
75-15-0	Carbon disulfide	ND	UJ	20	3.8
56-23-5	Carbon tetrachloride	ND	UJ	20	5.4
108-90-7	Chlorobenzene	ND	UJ	20	15
75-00-3	Chloroethane	11	J	20	6.4
67-66-3	Chloroform	ND	UJ	20	6.8
74-87-3	Chloromethane	ND	UJ	20	7.0
156-59-2	cis-1,2-Dichloroethene	1400	J	20	16
10061-01-5	cis-1,3-Dichloropropene	ND	UJ	20	7.2
110-82-7	Cyclohexane	ND	UJ	20	3.6
124-48-1	Dibromochloromethane	ND	UJ	20	6.4
75-71-8	Dichlorodifluoromethane	ND	UJ	20	14

Lab Name: Eurofins Buffalo	Job No.: 480-197309-1
SDG No.:	
Client Sample ID: PDI-12_GW	Lab Sample ID: <u>480-197309-12</u>
Matrix: Water	Lab File ID: T9155.D
Analysis Method: 8260C	Date Collected: 04/28/2022 14:55
Sample wt/vol: 5(mL)	Date Analyzed: 05/06/2022 20:20
Soil Aliquot Vol:	Dilution Factor: 20
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) N pH: 7.0
% Moisture: % Solids:	Level: (low/med) Low
Analysis Batch No.: 624854	Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	ND	UJ	20	15
98-82-8	Isopropylbenzene	ND	UJ	20	16
79-20-9	Methyl acetate	ND	UJ	50	26
1634-04-4	Methyl tert-butyl ether	ND	UJ	20	3.2
108-87-2	Methylcyclohexane	ND	UJ	20	3.2
75-09-2	Methylene Chloride	ND	UJ	20	8.8
100-42-5	Styrene	ND	UJ	20	15
127-18-4	Tetrachloroethene	ND	UJ	20	7.2
108-88-3	Toluene	ND	UJ	20	10
156-60-5	trans-1,2-Dichloroethene	ND	UJ	20	18
10061-02-6	trans-1,3-Dichloropropene	ND	UJ	20	7.4
79-01-6	Trichloroethene	45	J	20	9.2
75-69-4	Trichlorofluoromethane	ND	UJ	20	18
75-01-4	Vinyl chloride	34	J	20	18
1330-20-7	Xylenes, Total	ND	UJ	40	13

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		77-120
460-00-4	4-Bromofluorobenzene (Surr)	84		73-120
1868-53-7	Dibromofluoromethane (Surr)	97		75-123
2037-26-5	Toluene-d8 (Surr)	96		80-120

Lab Name: Eurofins Buffalo	Job No.: 480-197309-1		
SDG No.:			
Client Sample ID: TB_042822	Lab Sample ID: <u>480-197309-13</u>		
Matrix: Water	Lab File ID: T9156.D		
Analysis Method: 8260C	Date Collected: 04/28/2022 15:13		
Sample wt/vol: 5(mL)	Date Analyzed: 05/06/2022 20:43		
Soil Aliquot Vol:	Dilution Factor: 1		
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)		
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) N pH:		
% Moisture: % Solids:	Level: (low/med) Low		
Analysis Batch No.: 624854	Units: ug/L		

71-55-6         1,1,1-Trichloroethane         ND         1.0           79-34-5         1,1,2,2-Tetrachloroethane         ND         1.0           76-13-1         1,1,2,2-Trichloro-1,2,2-trifluoroethan         ND         1.0           e	0.82
76-13-1         1,1,2-Trichloro-1,2,2-trifluoroethan         ND         1.0           79-00-5         1,1,2-Trichloroethane         ND         1.0           75-34-3         1,1-Dichloroethane         ND         1.0           75-35-4         1,1-Dichloroethane         ND         1.0           120-82-1         1,2,4-Trichlorobenzene         ND         1.0           96-12-8         1,2-Dibromo-3-Chloropropane         ND         1.0           106-93-4         1,2-Dibromoethane         ND         1.0           95-50-1         1,2-Dichlorobenzene         ND         1.0           107-06-2         1,2-Dichlorobenzene         ND         1.0           107-06-2         1,2-Dichloropropane         ND         1.0           106-46-7         1,4-Dichlorobenzene         ND         1.0           100         100         1.0         1.0           108-10-1         4-Methyl-2-pentanone (MIBK) </td <td>0.21</td>	0.21
e         ND         1.0           79-00-5         1,1,2-Trichloroethane         ND         1.0           75-34-3         1,1-Dichloroethane         ND         1.0           75-35-4         1,1-Dichloroethene         ND         1.0           120-82-1         1,2,4-Trichlorobenzene         ND         1.0           96-12-8         1,2-Dibromo-3-Chloropropane         ND         1.0           106-93-4         1,2-Dibromoethane         ND         1.0           95-50-1         1,2-Dichlorobenzene         ND         1.0           107-06-2         1,2-Dichlorobenzene         ND         1.0           78-87-5         1,2-Dichlorobenzene         ND         1.0           106-46-7         1,4-Dichlorobenzene         ND         1.0           106-46-7         1,4-Dichlorobenzene         ND         1.0           106-46-7         1,4-Dichlorobenzene         ND         1.0           78-93-3         2-Butanone (MEK)         ND         10           591-78-6         2-Hexanone         ND         5.0           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         5.0           67-64-1         Acetone         ND         10	
79-00-5       1,1,2-Trichloroethane       ND       1.0         75-34-3       1,1-Dichloroethane       ND       1.0         75-35-4       1,1-Dichloroethene       ND       1.0         120-82-1       1,2,4-Trichlorobenzene       ND       1.0         96-12-8       1,2-Dibromo-3-Chloropropane       ND       1.0         106-93-4       1,2-Dibromoethane       ND       1.0         95-50-1       1,2-Dichlorobenzene       ND       1.0         107-06-2       1,2-Dichlorobenzene       ND       1.0         107-06-2       1,2-Dichloropropane       ND       1.0         107-06-2       1,2-Dichloropropane       ND       1.0         106-46-7       1,4-Dichlorobenzene       ND       1.0         106-46-7       1,4-Dichlorobenzene       ND       1.0         106-46-7       1,4-Dichlorobenzene       ND       1.0         78-93-3       2-Butanone (MEK)       ND       10         591-78-6       2-Hexanone       ND       5.0         108-10-1       4-Methyl-2-pentanone (MIBK)       ND       5.0         67-64-1       Acetone       ND       10	0.31
75-35-41,1-DichloroetheneND1.0120-82-11,2,4-TrichlorobenzeneND1.096-12-81,2-Dibromo-3-ChloropropaneND1.0106-93-41,2-DibromoethaneND1.095-50-11,2-DichlorobenzeneND1.0107-06-21,2-DichloroethaneND1.078-87-51,2-DichloropropaneND1.0541-73-11,3-DichlorobenzeneND1.0106-46-71,4-DichlorobenzeneND1.0106-46-71,4-DichlorobenzeneND1.0591-78-62-HexanoneND5.0108-10-14-Methyl-2-pentanone (MIBK)ND5.067-64-1AcetoneND10	0.23
120-82-1       1,2,4-Trichlorobenzene       ND       1.0         96-12-8       1,2-Dibromo-3-Chloropropane       ND       1.0         106-93-4       1,2-Dibromoethane       ND       1.0         95-50-1       1,2-Dichlorobenzene       ND       1.0         107-06-2       1,2-Dichloroethane       ND       1.0         107-06-2       1,2-Dichloroethane       ND       1.0         78-87-5       1,2-Dichlorobenzene       ND       1.0         78-87-5       1,2-Dichlorobenzene       ND       1.0         106-46-7       1,4-Dichlorobenzene       ND       1.0         106-46-7       1,4-Dichlorobenzene       ND       1.0         78-93-3       2-Butanone (MEK)       ND       1.0         591-78-6       2-Hexanone       ND       5.0         108-10-1       4-Methyl-2-pentanone (MIBK)       ND       5.0         67-64-1       Acetone       ND       10	0.38
96-12-8         1,2-Dibromo-3-Chloropropane         ND         1.0           106-93-4         1,2-Dibromoethane         ND         1.0           95-50-1         1,2-Dichlorobenzene         ND         1.0           107-06-2         1,2-Dichlorobenzene         ND         1.0           78-87-5         1,2-Dichloropropane         ND         1.0           541-73-1         1,3-Dichlorobenzene         ND         1.0           106-46-7         1,4-Dichlorobenzene         ND         1.0           78-93-3         2-Butanone (MEK)         ND         1.0           591-78-6         2-Hexanone         ND         5.0           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         5.0           67-64-1         Acetone         ND         10	0.29
106-93-4       1,2-Dibromoethane       ND       1.0         95-50-1       1,2-Dichlorobenzene       ND       1.0         107-06-2       1,2-Dichloroethane       ND       1.0         78-87-5       1,2-Dichloropropane       ND       1.0         541-73-1       1,3-Dichlorobenzene       ND       1.0         106-46-7       1,4-Dichlorobenzene       ND       1.0         78-93-3       2-Butanone (MEK)       ND       10         591-78-6       2-Hexanone       ND       5.0         108-10-1       4-Methyl-2-pentanone (MIBK)       ND       5.0         67-64-1       Acetone       ND       10	0.41
95-50-1         1,2-Dichlorobenzene         ND         1.0           107-06-2         1,2-Dichloroethane         ND         1.0           78-87-5         1,2-Dichloropropane         ND         1.0           541-73-1         1,3-Dichlorobenzene         ND         1.0           106-46-7         1,4-Dichlorobenzene         ND         1.0           78-93-3         2-Butanone (MEK)         ND         10           591-78-6         2-Hexanone         ND         5.0           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         5.0           67-64-1         Acetone         ND         10	0.39
107-06-2         1,2-Dichloroethane         ND         1.0           78-87-5         1,2-Dichloropropane         ND         1.0           541-73-1         1,3-Dichlorobenzene         ND         1.0           106-46-7         1,4-Dichlorobenzene         ND         1.0           78-93-3         2-Butanone (MEK)         ND         10           591-78-6         2-Hexanone         ND         5.0           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         5.0           67-64-1         Acetone         ND         10	0.73
78-87-5         1,2-Dichloropropane         ND         1.0           541-73-1         1,3-Dichlorobenzene         ND         1.0           106-46-7         1,4-Dichlorobenzene         ND         1.0           78-93-3         2-Butanone (MEK)         ND         10           591-78-6         2-Hexanone         ND         5.0           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         5.0           67-64-1         Acetone         ND         10	0.79
541-73-1         1,3-Dichlorobenzene         ND         1.0           106-46-7         1,4-Dichlorobenzene         ND         1.0           78-93-3         2-Butanone (MEK)         ND         10           591-78-6         2-Hexanone         ND         5.0           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         5.0           67-64-1         Acetone         ND         10	0.21
106-46-7         1,4-Dichlorobenzene         ND         1.0           78-93-3         2-Butanone (MEK)         ND         10           591-78-6         2-Hexanone         ND         5.0           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         5.0           67-64-1         Acetone         ND         10	0.72
78-93-3         2-Butanone (MEK)         ND         10           591-78-6         2-Hexanone         ND         5.0           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         5.0           67-64-1         Acetone         ND         10	0.78
591-78-6         2-Hexanone         ND         5.0           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         5.0           67-64-1         Acetone         ND         10	0.84
108-10-1         4-Methyl-2-pentanone (MIBK)         ND         5.0           67-64-1         Acetone         ND         10	1.3
67-64-1         Acetone         ND         10	1.2
	2.1
71-43-2 Benzene ND 1.0	3.0
	0.41
75-27-4BromodichloromethaneND1.0	0.39
75-25-2 Bromoform ND 1.0	0.26
74-83-9 Bromomethane ND 1.0	0.69
75-15-0 Carbon disulfide ND 1.0	0.19
56-23-5Carbon tetrachlorideND1.0	0.27
108-90-7 Chlorobenzene ND 1.0	0.75
75-00-3 Chloroethane ND 1.0	0.32
67-66-3 Chloroform ND 1.0	0.34
74-87-3 Chloromethane ND 1.0	0.35
156-59-2 cis-1,2-Dichloroethene ND 1.0	0.81
10061-01-5 cis-1,3-Dichloropropene ND 1.0	0.36
110-82-7 Cyclohexane ND 1.0	0.18
124-48-1 Dibromochloromethane ND 1.0	0.32
75-71-8 Dichlorodifluoromethane ND 1.0	0.68

Lab Name: Eurofins Buffalo	Job No.: 480-197309-1
SDG No.:	
Client Sample ID: TB_042822	Lab Sample ID: <u>480-197309-13</u>
Matrix: Water	Lab File ID: T9156.D
Analysis Method: 8260C	Date Collected: 04/28/2022 15:13
Sample wt/vol: 5(mL)	Date Analyzed: 05/06/2022 20:43
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) N pH:
% Moisture: % Solids:	Level: (low/med) Low
Analysis Batch No.: 624854	Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	0.72	J	1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		77-120
460-00-4	4-Bromofluorobenzene (Surr)	84		73-120
1868-53-7	Dibromofluoromethane (Surr)	91		75-123
2037-26-5	Toluene-d8 (Surr)	93		80-120

Lab Name: Eurofins Buffalo	Job No.: <u>480-197309-1</u>
SDG No.:	
Client Sample ID: RB_042822	Lab Sample ID: <u>480-197309-14</u>
Matrix: Water	Lab File ID: T9157.D
Analysis Method: 8260C	Date Collected: 04/28/2022 15:15
Sample wt/vol: 5(mL)	Date Analyzed: 05/06/2022 21:06
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) N pH:
% Moisture: % Solids:	Level: (low/med) Low
Analysis Batch No.: 624854	Units: ug/L

71-55-6         1,1,1-Trichloroethane         ND         1.0           79-34-5         1,1,2,2-Tetrachloroethane         ND         1.0           76-13-1         1,1,2,2-Trichloro-1,2,2-trifluoroethan         ND         1.0           e	0.82
76-13-1         1,1,2-Trichloro-1,2,2-trifluoroethan         ND         1.0           79-00-5         1,1,2-Trichloroethane         ND         1.0           75-34-3         1,1-Dichloroethane         ND         1.0           75-35-4         1,1-Dichloroethane         ND         1.0           120-82-1         1,2,4-Trichlorobenzene         ND         1.0           96-12-8         1,2-Dibromo-3-Chloropropane         ND         1.0           106-93-4         1,2-Dibromoethane         ND         1.0           95-50-1         1,2-Dichlorobenzene         ND         1.0           107-06-2         1,2-Dichlorobenzene         ND         1.0           107-06-2         1,2-Dichloropropane         ND         1.0           106-46-7         1,4-Dichlorobenzene         ND         1.0           100         100         1.0         1.0           108-10-1         4-Methyl-2-pentanone (MIBK) </td <td>0.21</td>	0.21
e         ND         1.0           79-00-5         1,1,2-Trichloroethane         ND         1.0           75-34-3         1,1-Dichloroethane         ND         1.0           75-35-4         1,1-Dichloroethene         ND         1.0           120-82-1         1,2,4-Trichlorobenzene         ND         1.0           96-12-8         1,2-Dibromo-3-Chloropropane         ND         1.0           106-93-4         1,2-Dibromoethane         ND         1.0           95-50-1         1,2-Dichlorobenzene         ND         1.0           107-06-2         1,2-Dichlorobenzene         ND         1.0           78-87-5         1,2-Dichlorobenzene         ND         1.0           106-46-7         1,4-Dichlorobenzene         ND         1.0           106-46-7         1,4-Dichlorobenzene         ND         1.0           106-46-7         1,4-Dichlorobenzene         ND         1.0           78-93-3         2-Butanone (MEK)         ND         10           591-78-6         2-Hexanone         ND         5.0           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         5.0           67-64-1         Acetone         ND         10	
79-00-5       1,1,2-Trichloroethane       ND       1.0         75-34-3       1,1-Dichloroethane       ND       1.0         75-35-4       1,1-Dichloroethene       ND       1.0         120-82-1       1,2,4-Trichlorobenzene       ND       1.0         96-12-8       1,2-Dibromo-3-Chloropropane       ND       1.0         106-93-4       1,2-Dibromoethane       ND       1.0         95-50-1       1,2-Dichlorobenzene       ND       1.0         107-06-2       1,2-Dichlorobenzene       ND       1.0         107-06-2       1,2-Dichloropropane       ND       1.0         107-06-2       1,2-Dichloropropane       ND       1.0         106-46-7       1,4-Dichlorobenzene       ND       1.0         106-46-7       1,4-Dichlorobenzene       ND       1.0         106-46-7       1,4-Dichlorobenzene       ND       1.0         78-93-3       2-Butanone (MEK)       ND       10         591-78-6       2-Hexanone       ND       5.0         108-10-1       4-Methyl-2-pentanone (MIBK)       ND       5.0         67-64-1       Acetone       ND       10	0.31
75-35-41,1-DichloroetheneND1.0120-82-11,2,4-TrichlorobenzeneND1.096-12-81,2-Dibromo-3-ChloropropaneND1.0106-93-41,2-DibromoethaneND1.095-50-11,2-DichlorobenzeneND1.0107-06-21,2-DichloroethaneND1.078-87-51,2-DichloropropaneND1.0541-73-11,3-DichlorobenzeneND1.0106-46-71,4-DichlorobenzeneND1.0106-46-71,4-DichlorobenzeneND1.0591-78-62-HexanoneND5.0108-10-14-Methyl-2-pentanone (MIBK)ND5.067-64-1AcetoneND10	0.23
120-82-1       1,2,4-Trichlorobenzene       ND       1.0         96-12-8       1,2-Dibromo-3-Chloropropane       ND       1.0         106-93-4       1,2-Dibromoethane       ND       1.0         95-50-1       1,2-Dichlorobenzene       ND       1.0         107-06-2       1,2-Dichloroethane       ND       1.0         107-06-2       1,2-Dichloroethane       ND       1.0         78-87-5       1,2-Dichloropropane       ND       1.0         78-87-5       1,2-Dichlorobenzene       ND       1.0         106-46-7       1,4-Dichlorobenzene       ND       1.0         106-46-7       1,4-Dichlorobenzene       ND       1.0         78-93-3       2-Butanone (MEK)       ND       1.0         591-78-6       2-Hexanone       ND       5.0         108-10-1       4-Methyl-2-pentanone (MIBK)       ND       5.0         67-64-1       Acetone       ND       10	0.38
96-12-8         1,2-Dibromo-3-Chloropropane         ND         1.0           106-93-4         1,2-Dibromoethane         ND         1.0           95-50-1         1,2-Dichlorobenzene         ND         1.0           107-06-2         1,2-Dichlorobenzene         ND         1.0           78-87-5         1,2-Dichloropropane         ND         1.0           541-73-1         1,3-Dichlorobenzene         ND         1.0           106-46-7         1,4-Dichlorobenzene         ND         1.0           78-93-3         2-Butanone (MEK)         ND         1.0           591-78-6         2-Hexanone         ND         5.0           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         5.0           67-64-1         Acetone         ND         10	0.29
106-93-4       1,2-Dibromoethane       ND       1.0         95-50-1       1,2-Dichlorobenzene       ND       1.0         107-06-2       1,2-Dichloroethane       ND       1.0         78-87-5       1,2-Dichloropropane       ND       1.0         541-73-1       1,3-Dichlorobenzene       ND       1.0         106-46-7       1,4-Dichlorobenzene       ND       1.0         78-93-3       2-Butanone (MEK)       ND       10         591-78-6       2-Hexanone       ND       5.0         108-10-1       4-Methyl-2-pentanone (MIBK)       ND       5.0         67-64-1       Acetone       ND       10	0.41
95-50-1         1,2-Dichlorobenzene         ND         1.0           107-06-2         1,2-Dichloroethane         ND         1.0           78-87-5         1,2-Dichloropropane         ND         1.0           541-73-1         1,3-Dichlorobenzene         ND         1.0           106-46-7         1,4-Dichlorobenzene         ND         1.0           78-93-3         2-Butanone (MEK)         ND         10           591-78-6         2-Hexanone         ND         5.0           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         5.0           67-64-1         Acetone         ND         10	0.39
107-06-2         1,2-Dichloroethane         ND         1.0           78-87-5         1,2-Dichloropropane         ND         1.0           541-73-1         1,3-Dichlorobenzene         ND         1.0           106-46-7         1,4-Dichlorobenzene         ND         1.0           78-93-3         2-Butanone (MEK)         ND         10           591-78-6         2-Hexanone         ND         5.0           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         5.0           67-64-1         Acetone         ND         10	0.73
78-87-5         1,2-Dichloropropane         ND         1.0           541-73-1         1,3-Dichlorobenzene         ND         1.0           106-46-7         1,4-Dichlorobenzene         ND         1.0           78-93-3         2-Butanone (MEK)         ND         10           591-78-6         2-Hexanone         ND         5.0           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         5.0           67-64-1         Acetone         ND         10	0.79
541-73-1         1,3-Dichlorobenzene         ND         1.0           106-46-7         1,4-Dichlorobenzene         ND         1.0           78-93-3         2-Butanone (MEK)         ND         10           591-78-6         2-Hexanone         ND         5.0           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         5.0           67-64-1         Acetone         ND         10	0.21
106-46-7         1,4-Dichlorobenzene         ND         1.0           78-93-3         2-Butanone (MEK)         ND         10           591-78-6         2-Hexanone         ND         5.0           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         5.0           67-64-1         Acetone         ND         10	0.72
78-93-3         2-Butanone (MEK)         ND         10           591-78-6         2-Hexanone         ND         5.0           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         5.0           67-64-1         Acetone         ND         10	0.78
591-78-6         2-Hexanone         ND         5.0           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         5.0           67-64-1         Acetone         ND         10	0.84
108-10-1         4-Methyl-2-pentanone (MIBK)         ND         5.0           67-64-1         Acetone         ND         10	1.3
67-64-1         Acetone         ND         10	1.2
	2.1
71-43-2 Benzene ND 1.0	3.0
	0.41
75-27-4BromodichloromethaneND1.0	0.39
75-25-2 Bromoform ND 1.0	0.26
74-83-9 Bromomethane ND 1.0	0.69
75-15-0 Carbon disulfide ND 1.0	0.19
56-23-5Carbon tetrachlorideND1.0	0.27
108-90-7 Chlorobenzene ND 1.0	0.75
75-00-3 Chloroethane ND 1.0	0.32
67-66-3 Chloroform ND 1.0	0.34
74-87-3 Chloromethane ND 1.0	0.35
156-59-2 cis-1,2-Dichloroethene ND 1.0	0.81
10061-01-5 cis-1,3-Dichloropropene ND 1.0	0.36
110-82-7 Cyclohexane ND 1.0	0.18
124-48-1 Dibromochloromethane ND 1.0	0.32
75-71-8 Dichlorodifluoromethane ND 1.0	0.68

Lab Name: Eurofins Buffalo	Job No.: <u>480-197309-1</u>
SDG No.:	
Client Sample ID: RB_042822	Lab Sample ID: <u>480-197309-14</u>
Matrix: Water	Lab File ID: T9157.D
Analysis Method: 8260C	Date Collected: 04/28/2022 15:15
Sample wt/vol: 5(mL)	Date Analyzed: 05/06/2022 21:06
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) N pH:
% Moisture: % Solids:	Level: (low/med) Low
Analysis Batch No.: 624854	Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		77-120
460-00-4	4-Bromofluorobenzene (Surr)	80		73-120
1868-53-7	Dibromofluoromethane (Surr)	91		75-123
2037-26-5	Toluene-d8 (Surr)	91		80-120

Lab Name: Eurofins Buffalo	Job No.: 480-197309-1		
SDG No.:			
Client Sample ID: PDI-5_GW	Lab Sample ID: <u>480-197309-15</u>		
Matrix: Water	Lab File ID: T9158.D		
Analysis Method: 8260C	Date Collected: 04/28/2022 12:30		
Sample wt/vol: 5(mL)	Date Analyzed: 05/06/2022 21:28		
Soil Aliquot Vol:	Dilution Factor: 1		
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)		
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) N pH: 7.0		
% Moisture: % Solids:	Level: (low/med) Low		
Analysis Batch No.: 624854	Units: ug/L		

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	UJ	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND	UJ	1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan e	ND	UJ	1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND	UJ	1.0	0.23
75-34-3	1,1-Dichloroethane	ND	UJ	1.0	0.38
75-35-4	1,1-Dichloroethene	ND	UJ	1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND	UJ	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND	UJ	1.0	0.39
106-93-4	1,2-Dibromoethane	ND	UJ	1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND	UJ	1.0	0.79
107-06-2	1,2-Dichloroethane	ND	UJ	1.0	0.21
78-87-5	1,2-Dichloropropane	ND	UJ	1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND	UJ	1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND	UJ	1.0	0.84
78-93-3	2-Butanone (MEK)	2.4	J	10	1.3
591-78-6	2-Hexanone	ND	UJ	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	UJ	5.0	2.1
67-64-1	Acetone	15	J	10	3.0
71-43-2	Benzene	ND	ŬJ	1.0	0.41
75-27-4	Bromodichloromethane	ND	UJ	1.0	0.39
75-25-2	Bromoform	ND	UJ	1.0	0.26
74-83-9	Bromomethane	ND	UJ	1.0	0.69
75-15-0	Carbon disulfide	0.48	J	1.0	0.19
56-23-5	Carbon tetrachloride	ND	UJ	1.0	0.27
108-90-7	Chlorobenzene	ND	UJ	1.0	0.75
75-00-3	Chloroethane	ND	UJ	1.0	0.32
67-66-3	Chloroform	ND	UJ	1.0	0.34
74-87-3	Chloromethane	ND	UJ	1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND	UJ	1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND	UJ	1.0	0.36
110-82-7	Cyclohexane	ND	UJ	1.0	0.18
124-48-1	Dibromochloromethane	ND	UJ	1.0	0.32
75-71-8	Dichlorodifluoromethane	ND	UJ	1.0	0.68

Lab Name: Eurofins Buffalo	Job No.: <u>480-197309-1</u>				
SDG No.:					
Client Sample ID: PDI-5_GW	Lab Sample ID: <u>480-197309-15</u>				
Matrix: Water	Lab File ID: T9158.D				
Analysis Method: 8260C	Date Collected: 04/28/2022 12:30				
Sample wt/vol: 5(mL)	Date Analyzed: 05/06/2022 21:28				
Soil Aliquot Vol:	Dilution Factor: 1				
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)				
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) N pH: 7.0				
% Moisture: % Solids:	Level: (low/med) Low				
Analysis Batch No.: 624854	Units: ug/L				

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	ND	UJ	1.0	0.74
98-82-8	Isopropylbenzene	ND	UJ	1.0	0.79
79-20-9	Methyl acetate	ND	UJ	2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND	UJ	1.0	0.16
108-87-2	Methylcyclohexane	0.23	J	1.0	0.16
75-09-2	Methylene Chloride	ND	UJ	1.0	0.44
100-42-5	Styrene	ND	UJ	1.0	0.73
127-18-4	Tetrachloroethene	ND	UJ	1.0	0.36
108-88-3	Toluene	ND	UJ	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND	UJ	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND	UJ	1.0	0.37
79-01-6	Trichloroethene	ND	UJ	1.0	0.46
75-69-4	Trichlorofluoromethane	ND	UJ	1.0	0.88
75-01-4	Vinyl chloride	ND	UJ	1.0	0.90
1330-20-7	Xylenes, Total	ND	UJ	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		77-120
460-00-4	4-Bromofluorobenzene (Surr)	90		73-120
1868-53-7	Dibromofluoromethane (Surr)	96		75-123
2037-26-5	Toluene-d8 (Surr)	97		80-120

Client Sample ID: PDI-4_0304	Lab Sample ID: 480-197309-1
Lab Name: Eurofins Buffalo	Job No.: 480-197309-1
SDG ID.:	
Matrix: Solid	Date Sampled: 04/28/2022 09:10
Reporting Basis: DRY	Date Received: 04/28/2022 16:40
% Solids: 87.4	

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7429-90-5	Aluminum	8780	12.1	5.3	mg/Kg			1	6010C
7440-36-0	Antimony	1.4	18.2	0.49	mg/Kg	J		1	6010C
7440-38-2	Arsenic	2.7	2.4	0.49	mg/Kg			1	6010C
7440-39-3	Barium	46.9	0.61	0.13	mg/Kg			1	6010C
7440-41-7	Beryllium	0.39	0.24	0.034	mg/Kg			1	6010C
7440-43-9	Cadmium	0.23	0.24	0.036	mg/Kg	J		1	6010C
7440-70-2	Calcium	16600	60.6	4.0	mg/Kg			1	6010C
7440-47-3	Chromium	9.4	0.61	0.24	mg/Kg			1	6010C
7440-48-4	Cobalt	4.8	0.61	0.061	mg/Kg			1	6010C
7440-50-8	Copper	11.6	1.2	0.25	mg/Kg			1	6010C
7439-89-6	Iron	11300	12.1	4.2	mg/Kg			1	6010C
7439-92-1	Lead	7.3	1.2	0.29	mg/Kg			1	6010C
7439-95-4	Magnesium	7030	24.3	1.1	mg/Kg			1	6010C
7439-96-5	Manganese	654	0.24	0.039	mg/Kg			1	6010C
7440-02-0	Nickel	10.3	6.1	0.28	mg/Kg			1	6010C
7440-09-7	Potassium	1700	36.4	24.3	mg/Kg			1	6010C
7782-49-2	Selenium	0.95	4.9	0.49	mg/Kg	J		1	6010C
7440-22-4	Silver	ND	0.73	0.24	mg/Kg			1	6010C
7440-23-5	Sodium	122	170	15.8	mg/Kg	J		1	6010C
7440-28-0	Thallium	ND	7.3	0.36	mg/Kg			1	6010C
7440-62-2	Vanadium	15.3	0.61	0.13	mg/Kg			1	6010C
7440-66-6	Zinc	43.2	2.4	0.78	mg/Kg			1	6010C
7439-97-6	Mercury	0.019	0.021	0.0049	mg/Kg	J		1	7471B

Client Sample ID: PDI-9_0203	Lab Sample ID: 480-197309-3
Lab Name: Eurofins Buffalo	Job No.: 480-197309-1
SDG ID.:	
Matrix: Solid	Date Sampled: 04/28/2022 10:09
Reporting Basis: DRY	Date Received: 04/28/2022 16:40
% Solids: 91.2	

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7429-90-5	Aluminum	5740	11.0	4.8	mg/Kg			1	6010C
7440-36-0	Antimony	1.1	16.5	0.44	mg/Kg	J		1	6010C
7440-38-2	Arsenic	2.0	2.2	0.44	mg/Kg	J		1	6010C
7440-39-3	Barium	36.0	0.55	0.12	mg/Kg			1	6010C
7440-41-7	Beryllium	0.26	0.22	0.031	mg/Kg			1	6010C
7440-43-9	Cadmium	0.11	0.22	0.033	mg/Kg	J		1	6010C
7440-70-2	Calcium	22100	55.0	3.6	mg/Kg			1	6010C
7440-47-3	Chromium	7.5	0.55	0.22	mg/Kg			1	6010C
7440-48-4	Cobalt	4.2	0.55	0.055	mg/Kg			1	6010C
7440-50-8	Copper	10.3	1.1	0.23	mg/Kg			1	6010C
7439-89-6	Iron	9030	11.0	3.9	mg/Kg			1	6010C
7439-92-1	Lead	4.2	1.1	0.26	mg/Kg			1	6010C
7439-95-4	Magnesium	4980	22.0	1.0	mg/Kg			1	6010C
7439-96-5	Manganese	427	0.22	0.035	mg/Kg			1	6010C
7440-02-0	Nickel	9.1	5.5	0.25	mg/Kg			1	6010C
7440-09-7	Potassium	1300	33.0	22.0	mg/Kg			1	6010C
7782-49-2	Selenium	0.62	4.4	0.44	mg/Kg	J		1	6010C
7440-22-4	Silver	ND	0.66	0.22	mg/Kg			1	6010C
7440-23-5	Sodium	146	154	14.3	mg/Kg	J		1	6010C
7440-28-0	Thallium	ND	6.6	0.33	mg/Kg			1	6010C
7440-62-2	Vanadium	13.2	0.55	0.12	mg/Kg			1	6010C
7440-66-6	Zinc	22.1	2.2	0.70	mg/Kg			1	6010C
7439-97-6	Mercury	0.012	0.022	0.0050	mg/Kg	J		1	7471B

Client Sample ID: PDI-10_0304	Lab Sample ID: 480-197309-5
Lab Name: Eurofins Buffalo	Job No.: 480-197309-1
SDG ID.:	
Matrix: Solid	Date Sampled: 04/28/2022 10:51
Reporting Basis: DRY	Date Received: 04/28/2022 16:40
% Solids: 88.4	

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7429-90-5	Aluminum	5700	10.9	4.8	mg/Kg			1	6010C
7440-36-0	Antimony	1.3	16.3	0.44	mg/Kg	J		1	6010C
7440-38-2	Arsenic	2.5	2.2	0.44	mg/Kg			1	6010C
7440-39-3	Barium	34.5	0.54	0.12	mg/Kg			1	6010C
7440-41-7	Beryllium	0.24	0.22	0.030	mg/Kg			1	6010C
7440-43-9	Cadmium	0.12	0.22	0.033	mg/Kg	J		1	6010C
7440-70-2	Calcium	24600	54.4	3.6	mg/Kg			1	6010C
7440-47-3	Chromium	7.0	0.54	0.22	mg/Kg			1	6010C
7440-48-4	Cobalt	3.8	0.54	0.054	mg/Kg			1	6010C
7440-50-8	Copper	10.6	1.1	0.23	mg/Kg			1	6010C
7439-89-6	Iron	9400	10.9	3.8	mg/Kg			1	6010C
7439-92-1	Lead	4.9	1.1	0.26	mg/Kg			1	6010C
7439-95-4	Magnesium	7220	21.8	1.0	mg/Kg			1	6010C
7439-96-5	Manganese	372	0.22	0.035	mg/Kg			1	6010C
7440-02-0	Nickel	7.6	5.4	0.25	mg/Kg			1	6010C
7440-09-7	Potassium	1030	32.7	21.8	mg/Kg			1	6010C
7782-49-2	Selenium	1.0	4.4	0.44	mg/Kg	J		1	6010C
7440-22-4	Silver	ND	0.65	0.22	mg/Kg			1	6010C
7440-23-5	Sodium	130	152	14.2	mg/Kg	J		1	6010C
7440-28-0	Thallium	ND	6.5	0.33	mg/Kg			1	6010C
7440-62-2	Vanadium	13.3	0.54	0.12	mg/Kg			1	6010C
7440-66-6	Zinc	23.0	2.2	0.70	mg/Kg	J		1	6010C
7439-97-6	Mercury	0.023	0.022	0.0050	mg/Kg	-		1	7471B

#### 1A-IN INORGANIC ANALYSIS DATA SHEET FD OF PDI-10 M

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Client Sample ID: DUP\_042822 Lab Sample ID: 480-197309-7 Lab Name: Eurofins Buffalo Job No.: 480-197309-1 SDG ID.: Date Sampled: 04/28/2022 11:30 Matrix: Solid Reporting Basis: DRY Date Received: 04/28/2022 16:40

% Solids: 89.7

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7429-90-5	Aluminum	7080	11.3	5.0	mg/Kg			1	6010C
7440-36-0	Antimony	1.4	16.9	0.45	mg/Kg	J		1	6010C
7440-38-2	Arsenic	2.9	2.3	0.45	mg/Kg			1	6010C
7440-39-3	Barium	39.8	0.56	0.12	mg/Kg			1	6010C
7440-41-7	Beryllium	0.28	0.23	0.032	mg/Kg			1	6010C
7440-43-9	Cadmium	0.25	0.23	0.034	mg/Kg			1	6010C
7440-70-2	Calcium	32400	56.3	3.7	mg/Kg			1	6010C
7440-47-3	Chromium	8.5	0.56	0.23	mg/Kg			1	6010C
7440-48-4	Cobalt	4.4	0.56	0.056	mg/Kg			1	6010C
7440-50-8	Copper	12.9	1.1	0.24	mg/Kg			1	6010C
7439-89-6	Iron	10100	11.3	3.9	mg/Kg			1	6010C
7439-92-1	Lead	5.8	1.1	0.27	mg/Kg			1	6010C
7439-95-4	Magnesium	5530	22.5	1.0	mg/Kg			1	6010C
7439-96-5	Manganese	366	0.23	0.036	mg/Kg			1	6010C
7440-02-0	Nickel	9.1	5.6	0.26	mg/Kg			1	6010C
7440-09-7	Potassium	1150	33.8	22.5	mg/Kg			1	6010C
7782-49-2	Selenium	0.91	4.5	0.45	mg/Kg	J		1	6010C
7440-22-4	Silver	ND	0.68	0.23	mg/Kg			1	6010C
7440-23-5	Sodium	135	158	14.6	mg/Kg	J		1	6010C
7440-28-0	Thallium	ND	6.8	0.34	mg/Kg			1	6010C
7440-62-2	Vanadium	15.0	0.56	0.12	mg/Kg			1	6010C
7440-66-6	Zinc	79.3	2.3	0.72	mg/Kg	J		1	6010C
7439-97-6	Mercury	0.013	0.021	0.0049	mg/Kg	J		1	7471B

Client Sample ID: PDI-5_0405	Lab Sample ID: 480-197309-8
Lab Name: Eurofins Buffalo	Job No.: 480-197309-1
SDG ID.:	
Matrix: Solid	Date Sampled: 04/28/2022 11:51
Reporting Basis: DRY	Date Received: 04/28/2022 16:40
% Solids: 92.9	

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7429-90-5	Aluminum	6530	11.2	4.9	mg/Kg			1	6010C
7440-36-0	Antimony	1.2	16.9	0.45	mg/Kg	J		1	6010C
7440-38-2	Arsenic	2.7	2.2	0.45	mg/Kg			1	6010C
7440-39-3	Barium	32.2	0.56	0.12	mg/Kg			1	6010C
7440-41-7	Beryllium	0.27	0.22	0.031	mg/Kg			1	6010C
7440-43-9	Cadmium	0.16	0.22	0.034	mg/Kg	J		1	6010C
7440-70-2	Calcium	24300	56.2	3.7	mg/Kg			1	6010C
7440-47-3	Chromium	7.8	0.56	0.22	mg/Kg			1	6010C
7440-48-4	Cobalt	4.0	0.56	0.056	mg/Kg			1	6010C
7440-50-8	Copper	25.7	1.1	0.24	mg/Kg			1	6010C
7439-89-6	Iron	9200	11.2	3.9	mg/Kg			1	6010C
7439-92-1	Lead	6.4	1.1	0.27	mg/Kg			1	6010C
7439-95-4	Magnesium	13300	22.5	1.0	mg/Kg			1	6010C
7439-96-5	Manganese	387	0.22	0.036	mg/Kg			1	6010C
7440-02-0	Nickel	8.3	5.6	0.26	mg/Kg			1	6010C
7440-09-7	Potassium	1290	33.7	22.5	mg/Kg			1	6010C
7782-49-2	Selenium	0.73	4.5	0.45	mg/Kg	J		1	6010C
7440-22-4	Silver	ND	0.67	0.22	mg/Kg			1	6010C
7440-23-5	Sodium	136	157	14.6	mg/Kg	J		1	6010C
7440-28-0	Thallium	ND	6.7	0.34	mg/Kg			1	6010C
7440-62-2	Vanadium	12.9	0.56	0.12	mg/Kg			1	6010C
7440-66-6	Zinc	36.3	2.2	0.72	mg/Kg	I		1	6010C
7439-97-6	Mercury	0.019	0.022	0.0050	mg/Kg	J		1	7471B

Client Sample ID: PDI-11_0304	Lab Sample ID: 480-197309-9
Lab Name: Eurofins Buffalo	Job No.: 480-197309-1
SDG ID.:	
Matrix: Solid	Date Sampled: 04/28/2022 13:11
Reporting Basis: DRY	Date Received: 04/28/2022 16:40
% Solids: 87.6	

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7429-90-5	Aluminum	6790	11.2	4.9	mg/Kg			1	6010C
7440-36-0	Antimony	1.8	16.9	0.45	mg/Kg	J		1	6010C
7440-38-2	Arsenic	2.5	2.2	0.45	mg/Kg			1	6010C
7440-39-3	Barium	42.2	0.56	0.12	mg/Kg			1	6010C
7440-41-7	Beryllium	0.32	0.22	0.031	mg/Kg			1	6010C
7440-43-9	Cadmium	0.13	0.22	0.034	mg/Kg	J		1	6010C
7440-70-2	Calcium	31000	56.2	3.7	mg/Kg			1	6010C
7440-47-3	Chromium	9.2	0.56	0.22	mg/Kg			1	6010C
7440-48-4	Cobalt	4.6	0.56	0.056	mg/Kg			1	6010C
7440-50-8	Copper	13.7	1.1	0.24	mg/Kg			1	6010C
7439-89-6	Iron	11300	11.2	3.9	mg/Kg			1	6010C
7439-92-1	Lead	5.6	1.1	0.27	mg/Kg			1	6010C
7439-95-4	Magnesium	7940	22.5	1.0	mg/Kg			1	6010C
7439-96-5	Manganese	317	0.22	0.036	mg/Kg			1	6010C
7440-02-0	Nickel	9.5	5.6	0.26	mg/Kg			1	6010C
7440-09-7	Potassium	1470	33.7	22.5	mg/Kg			1	6010C
7782-49-2	Selenium	1.1	4.5	0.45	mg/Kg	J		1	6010C
7440-22-4	Silver	ND	0.67	0.22	mg/Kg			1	6010C
7440-23-5	Sodium	153	157	14.6	mg/Kg	J		1	6010C
7440-28-0	Thallium	ND	6.7	0.34	mg/Kg			1	6010C
7440-62-2	Vanadium	15.9	0.56	0.12	mg/Kg			1	6010C
7440-66-6	Zinc	25.2	2.2	0.72	mg/Kg			1	6010C
7439-97-6	Mercury	0.012	0.021	0.0049	mg/Kg	J		1	7471B

Client Sample ID: PDI-12_0405	Lab Sample ID: 480-197309-11
Lab Name: Eurofins Buffalo	Job No.: 480-197309-1
SDG ID.:	
Matrix: Solid	Date Sampled: 04/28/2022 14:21
Reporting Basis: DRY	Date Received: 04/28/2022 16:40
% Solids: 87.2	

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7429-90-5	Aluminum	14300	11.4	5.0	mg/Kg			1	6010C
7440-36-0	Antimony	2.4	17.1	0.46	mg/Kg	J		1	6010C
7440-38-2	Arsenic	3.3	2.3	0.46	mg/Kg			1	6010C
7440-39-3	Barium	57.0	0.57	0.13	mg/Kg			1	6010C
7440-41-7	Beryllium	0.67	0.23	0.032	mg/Kg			1	6010C
7440-43-9	Cadmium	0.076	0.23	0.034	mg/Kg	J		1	6010C
7440-70-2	Calcium	2690	57.0	3.8	mg/Kg			1	6010C
7440-47-3	Chromium	14.8	0.57	0.23	mg/Kg			1	6010C
7440-48-4	Cobalt	7.4	0.57	0.057	mg/Kg			1	6010C
7440-50-8	Copper	15.7	1.1	0.24	mg/Kg			1	6010C
7439-89-6	Iron	18700	11.4	4.0	mg/Kg			1	6010C
7439-92-1	Lead	9.0	1.1	0.27	mg/Kg			1	6010C
7439-95-4	Magnesium	2440	22.8	1.1	mg/Kg			1	6010C
7439-96-5	Manganese	373	0.23	0.036	mg/Kg			1	6010C
7440-02-0	Nickel	10.5	5.7	0.26	mg/Kg			1	6010C
7440-09-7	Potassium	1520	34.2	22.8	mg/Kg			1	6010C
7782-49-2	Selenium	1.7	4.6	0.46	mg/Kg	J		1	6010C
7440-22-4	Silver	ND	0.68	0.23	mg/Kg			1	6010C
7440-23-5	Sodium	95.7	160	14.8	mg/Kg	J		1	6010C
7440-28-0	Thallium	ND	6.8	0.34	mg/Kg			1	6010C
7440-62-2	Vanadium	30.3	0.57	0.13	mg/Kg			1	6010C
7440-66-6	Zinc	27.9	2.3	0.73	mg/Kg			1	6010C
7439-97-6	Mercury	0.025	0.023	0.0054	mg/Kg			1	7471B

Client Sample ID: RB_042822				Lab Sample	e ID: 480	-197309-	-14			
Lab Name: E	urofins Buffalo			Job No.: 480-197309-1						
SDG ID.:										
Matrix: Wate	er			Date Sampl	ed: 04/28	8/2022	15:15			
Reporting Bas	sis: WET 			Date Recei	.ved: 04/	28/2022	16:40			
CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method	
7429-90-5	Aluminum	ND	0.20	0.060	mg/L			1	6010C	
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C	
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C	
7440-39-3	Barium	ND	0.0020	0.00070	mg/L			1	6010C	
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C	
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C	
7440-70-2	Calcium	ND	0.50	0.10	mg/L			1	6010C	
7440-47-3	Chromium	ND	0.0040	0.0010	mg/L			1	6010C	
7440-48-4	Cobalt	ND	0.0040	0.00063	mg/L			1	6010C	
7440-50-8	Copper	0.017	0.010	0.0016	mg/L			1	6010C	
7439-89-6	Iron	ND	0.050	0.019	mg/L			1	6010C	
7439-92-1	Lead	ND	0.010	0.0030	mg/L			1	6010C	
7439-95-4	Magnesium	ND	0.20	0.043	mg/L			1	6010C	
7439-96-5	Manganese	0.00062	0.0030	0.00040	mg/L	J		1	6010C	
7440-02-0	Nickel	ND	0.010	0.0013	mg/L			1	6010C	
7440-09-7	Potassium	ND	0.50	0.10	mg/L			1	6010C	
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C	

ND

ND

ND

ND

ND

ND

0.0060

0.020

0.0050

0.010

0.00020

1.0

0.0017

0.0015

0.000043

0.32

0.010 mg/L

0.0015 mg/L

mg/L

mg/L

mg/L

mg/L

7440-22-4

7440-23-5

7440-28-0

7440-62-2

7440-66-6

7439-97-6

Silver

Sodium

Thallium

Vanadium

Mercury

Zinc

1

1

1

1

1

6010C

6010C

6010C

7470A

6010C

1 6010C

Lab Name: Eurofins Buffalo	Job No.: 480-197706-1
SDG No.:	
Client Sample ID: MW-14	Lab Sample ID: <u>480-197706-1</u>
Matrix: Water	Lab File ID: D9579.D
Analysis Method: 8260C	Date Collected: 05/09/2022 09:22
Sample wt/vol: 5(mL)	Date Analyzed: 05/17/2022 01:44
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) N pH:
% Moisture: % Solids:	Level: (low/med) Low
Analysis Batch No.: 626280	Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan e	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68

Lab Name: Eurofins Buffalo	Job No.: 480-197706-1
SDG No.:	
Client Sample ID: MW-14	Lab Sample ID: <u>480-197706-1</u>
Matrix: Water	Lab File ID: D9579.D
Analysis Method: 8260C	Date Collected: 05/09/2022 09:22
Sample wt/vol: 5(mL)	Date Analyzed: 05/17/2022 01:44
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) N pH:
% Moisture: % Solids:	Level: (low/med) Low
Analysis Batch No.: 626280	Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123
2037-26-5	Toluene-d8 (Surr)	101		80-120

Lab Name: Eurofins Buffalo	Job No.: 480-197706-1
SDG No.:	
Client Sample ID: MW-22	Lab Sample ID: <u>480-197706-2</u>
Matrix: Water	Lab File ID: D9580.D
Analysis Method: 8260C	Date Collected: 05/09/2022 11:29
Sample wt/vol: 5(mL)	Date Analyzed: 05/17/2022 02:06
Soil Aliquot Vol:	Dilution Factor: 2
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) N pH:
% Moisture: % Solids:	Level: (low/med) Low
Analysis Batch No.: 626280	Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		2.0	1.6
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.0	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan e	ND		2.0	0.62
79-00-5	1,1,2-Trichloroethane	ND		2.0	0.46
75-34-3	1,1-Dichloroethane	2.3		2.0	0.76
75-35-4	1,1-Dichloroethene	ND		2.0	0.58
120-82-1	1,2,4-Trichlorobenzene	ND		2.0	0.82
96-12-8	1,2-Dibromo-3-Chloropropane	ND		2.0	0.78
106-93-4	1,2-Dibromoethane	ND		2.0	1.5
95-50-1	1,2-Dichlorobenzene	ND		2.0	1.6
107-06-2	1,2-Dichloroethane	ND		2.0	0.42
78-87-5	1,2-Dichloropropane	ND		2.0	1.4
541-73-1	1,3-Dichlorobenzene	ND		2.0	1.6
106-46-7	1,4-Dichlorobenzene	ND		2.0	1.7
78-93-3	2-Butanone (MEK)	ND		20	2.6
591-78-6	2-Hexanone	ND		10	2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	4.2
67-64-1	Acetone	ND		20	6.0
71-43-2	Benzene	ND		2.0	0.82
75-27-4	Bromodichloromethane	ND		2.0	0.78
75-25-2	Bromoform	ND		2.0	0.52
74-83-9	Bromomethane	ND		2.0	1.4
75-15-0	Carbon disulfide	ND		2.0	0.38
56-23-5	Carbon tetrachloride	ND		2.0	0.54
108-90-7	Chlorobenzene	ND		2.0	1.5
75-00-3	Chloroethane	ND		2.0	0.64
67-66-3	Chloroform	1.2	J	2.0	0.68
74-87-3	Chloromethane	ND		2.0	0.70
156-59-2	cis-1,2-Dichloroethene	130	F1	2.0	1.6
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.72
110-82-7	Cyclohexane	ND		2.0	0.36
124-48-1	Dibromochloromethane	ND		2.0	0.64
75-71-8	Dichlorodifluoromethane	ND		2.0	1.4
	1				

Lab Name: Eurofins Buffalo	Job No.: 480-197706-1		
SDG No.:			
Client Sample ID: MW-22	Lab Sample ID: <u>480-197706-2</u>		
Matrix: Water	Lab File ID: D9580.D		
Analysis Method: 8260C	Date Collected: 05/09/2022 11:29		
Sample wt/vol: 5(mL)	Date Analyzed: 05/17/2022 02:06		
Soil Aliquot Vol:	Dilution Factor: 2		
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)		
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) N pH:		
% Moisture: % Solids:	Level: (low/med) Low		
Analysis Batch No.: 626280	Units: ug/L		

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	ND		2.0	1.5
98-82-8	Isopropylbenzene	ND		2.0	1.6
79-20-9	Methyl acetate	ND		5.0	2.6
1634-04-4	Methyl tert-butyl ether	ND		2.0	0.32
108-87-2	Methylcyclohexane	ND		2.0	0.32
75-09-2	Methylene Chloride	ND		2.0	0.88
100-42-5	Styrene	ND		2.0	1.5
127-18-4	Tetrachloroethene	0.75	J	2.0	0.72
108-88-3	Toluene	ND		2.0	1.0
156-60-5	trans-1,2-Dichloroethene	1.8	J	2.0	1.8
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.74
79-01-6	Trichloroethene	1.5	J	2.0	0.92
75-69-4	Trichlorofluoromethane	ND		2.0	1.8
75-01-4	Vinyl chloride	ND		2.0	1.8
1330-20-7	Xylenes, Total	ND		4.0	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123
2037-26-5	Toluene-d8 (Surr)	102		80-120

Lab Name: Eurofins Buffalo	Job No.: <u>480-197706-1</u>
SDG No.:	
Client Sample ID: MW-05R	Lab Sample ID: <u>480-197706-3</u>
Matrix: Water	Lab File ID: D9581.D
Analysis Method: 8260C	Date Collected: 05/09/2022 13:33
Sample wt/vol: 5(mL)	Date Analyzed: 05/17/2022 02:28
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) N pH:
% Moisture: % Solids:	Level: (low/med) Low
Analysis Batch No.: 626280	Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.2		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan e	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	22		1.0	0.38
75-35-4	1,1-Dichloroethene	0.29	J	1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	0.51	J	1.0	0.32
67-66-3	Chloroform	1.5		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
15-6	cis=1-,2=Dichloroethene	<u>20</u> 0_	<u>E</u>		<i>-</i> 0 <i>,8-</i> <u>1</u> -
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	0.24	J	1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68

FORM I 8260C Use cis-1,2-DCE result from the dilution

Lab Name: Eurofins Buffalo	Job No.: <u>480-197706-1</u>			
SDG No.:				
Client Sample ID: MW-05R	Lab Sample ID: <u>480-197706-3</u>			
Matrix: Water	Lab File ID: D9581.D			
Analysis Method: 8260C	Date Collected: 05/09/2022 13:33			
Sample wt/vol: 5(mL)	Date Analyzed: 05/17/2022 02:28			
Soil Aliquot Vol:	Dilution Factor: 1			
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)			
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) N pH:			
% Moisture: % Solids:	Level: (low/med) Low			
Analysis Batch No.: 626280	Units: ug/L			

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	0.21	J	1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	5.7		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.7		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	31		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	2.4		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		75-123
2037-26-5	Toluene-d8 (Surr)	103		80-120

Lab Name: Eurofins Buffalo	Job No.: 480-197706-1		
SDG No.:			
Client Sample ID: MW-05R DL	Lab Sample ID: 480-197706-3 DL		
Matrix: Water	Lab File ID: T9647.D		
Analysis Method: 8260C	Date Collected: 05/09/2022 13:33		
Sample wt/vol: 5(mL)	Date Analyzed: 05/18/2022 08:13		
Soil Aliquot Vol:	Dilution Factor: 4		
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)		
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) N pH:		
% Moisture: % Solids:	Level: (low/med) Low		
Analysis Batch No.: 626469	Units: ug/L		

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		4.0	3.3
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.0	0.84
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan e	ND		4.0	1.2
79-00-5	1,1,2-Trichloroethane	ND		4.0	0.92
75-34-3	1,1-Dichloroethane	26		4.0	1.5
75-35-4	1,1-Dichloroethene	ND		4.0	1.2
120-82-1	1,2,4-Trichlorobenzene	ND		4.0	1.6
96-12-8	1,2-Dibromo-3-Chloropropane	ND		4.0	1.6
106-93-4	1,2-Dibromoethane	ND		4.0	2.9
95-50-1	1,2-Dichlorobenzene	ND		4.0	3.2
107-06-2	1,2-Dichloroethane	ND		4.0	0.84
78-87-5	1,2-Dichloropropane	ND		4.0	2.9
541-73-1	1,3-Dichlorobenzene	ND		4.0	3.1
106-46-7	1,4-Dichlorobenzene	ND		4.0	3.4
78-93-3	2-Butanone (MEK)	ND		40	5.3
591-78-6	2-Hexanone	ND		20	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		20	8.4
67-64-1	Acetone	ND	*_	40	12
71-43-2	Benzene	ND		4.0	1.6
75-27-4	Bromodichloromethane	ND		4.0	1.6
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		4.0	2.8
75-15-0	Carbon disulfide	ND		4.0	0.76
56-23-5	Carbon tetrachloride	ND		4.0	1.1
108-90-7	Chlorobenzene	ND		4.0	3.0
75-00-3	Chloroethane	ND		4.0	1.3
67-66-3	Chloroform	1.7	J	4.0	1.4
74-87-3	Chloromethane	ND		4.0	1.4
156-59-2	cis-1,2-Dichloroethene	* 210	D	4.0	3.2
10061-01-5	cis-1,3-Dichloropropene	ND		4.0	1.4
110-82-7	Cyclohexane	ND		4.0	0.72
124-48-1	Dibromochloromethane	ND		4.0	1.3
75-71-8	Dichlorodifluoromethane	ND		4.0	2.7

<sup>\*</sup> Use this result

Lab Name: Eurofins Buffalo	Job No.: <u>480-197706-1</u>
SDG No.:	
Client Sample ID: RB-050922	Lab Sample ID: <u>480-197706-4</u>
Matrix: Water	Lab File ID: D9582.D
Analysis Method: 8260C	Date Collected: 05/09/2022 14:30
Sample wt/vol: 5(mL)	Date Analyzed: 05/17/2022 02:50
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) N pH:
% Moisture: % Solids:	Level: (low/med) Low
Analysis Batch No.: 626280	Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan e	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68

Lab Name: Eurofins Buffalo	Job No.: 480-197706-1		
SDG No.:			
Client Sample ID: RB-050922	Lab Sample ID: <u>480-197706-4</u>		
Matrix: Water	Lab File ID: D9582.D		
Analysis Method: 8260C	Date Collected: 05/09/2022 14:30		
Sample wt/vol: 5(mL)	Date Analyzed: 05/17/2022 02:50		
Soil Aliquot Vol:	Dilution Factor: 1		
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)		
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) N pH:		
% Moisture: % Solids:	Level: (low/med) Low		
Analysis Batch No.: 626280	Units: ug/L		

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123
2037-26-5	Toluene-d8 (Surr)	103		80-120

Lab Name: Eurofins Buffalo	Job No.: <u>480-197706-1</u>		
SDG No.:			
Client Sample ID: MW-07	Lab Sample ID: <u>480-197706-5</u>		
Matrix: Water	Lab File ID: D9583.D		
Analysis Method: 8260C	Date Collected: 05/09/2022 14:49		
Sample wt/vol: 5(mL)	Date Analyzed: 05/17/2022 03:12		
Soil Aliquot Vol:	Dilution Factor: 1		
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)		
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) N pH:		
% Moisture: % Solids:	Level: (low/med) Low		
Analysis Batch No.: 626280	Units: ug/L		

71-55-6         1,1,1-Trichloroethane         ND         1.0         0.82           79-34-5         1,1,2,2-Tetrachloroethane         ND         1.0         0.21           76-13-1         1,1,2-Trichloroethane         ND         1.0         0.23           79-00-5         1,1,2-Trichloroethane         ND         1.0         0.23           75-34-3         1,1-Dichloroethane         ND         1.0         0.23           75-35-4         1,2-Dichloroethane         ND         1.0         0.23           106-93-4         1,2-Dichloroethane         ND         1.0         0.41           96-12-8         1,2-Dibromo-3-Chloropropane         ND         1.0         0.73           95-50-1         1,2-Dichloroethane         ND         1.0         0.73           95-50-1         1,2-Dichloroethane         ND         1.0         0.72           78-87-5         1,2-Dichloroethane         ND         1.0         0.72           94-73-1         1,3-Dichloroenzene         ND         1.0         0.72           94-73-3         2-Butanone (MEK)         ND         1.0         0.78           108-40-7         1,4-Dichlorobenzene         ND         1.0         0.30	CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1         1,1,2-Trichloro-1,2,2-trifluoroethan         ND         1.0         0.31           79-00-5         1,1,2-Trichloroethane         ND         1.0         0.23           75-34-3         1,1-Dichloroethane         0.83         J         1.0         0.23           75-35-4         1,1-Dichloroethane         ND         1.0         0.23           120-82-1         1,2,4-Trichlorobenzene         ND         1.0         0.41           96-12-8         1,2-Dibromo-3-Chloropropane         ND         1.0         0.73           95-50-1         1,2-Dichloroethane         ND         1.0         0.73           95-50-1         1,2-Dichloroethane         ND         1.0         0.71           95-50-1         1,2-Dichloroethane         ND         1.0         0.72           78-87-5         2,2-Dichloroethane         ND         1.0         0.72 </td <td>71-55-6</td> <td>1,1,1-Trichloroethane</td> <td>ND</td> <td></td> <td>1.0</td> <td>0.82</td>	71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
e         o         o           79-00-5         1,1,2-Trichloroethane         ND         1.0         0.23           75-34-3         1,1-Dichloroethane         0.83         J         1.0         0.23           75-35-4         1,1-Dichloroethane         ND         1.0         0.29           120-82-1         1,2,4-Trichlorobenzene         ND         1.0         0.41           96-12-8         1,2-Dibromo-3-Chloropropane         ND         1.0         0.73           95-50-1         1,2-Dichloroethane         ND         1.0         0.73           95-50-1         1,2-Dichloroethane         ND         1.0         0.72           741-73-1         1,3-Dichlorobenzene         ND         1.0         0.72           741-73-1         1,3-Dichlorobenzene         ND         1.0         0.72           541-73-1         1,3-Dichlorobenzene         ND         1.0         0.78           106-46-7         1,4-Dichlorobenzene         ND         1.0         0.84           79-33         2-Butanone (MEK)         ND         1.0         0.84           79-2-7         Acetone         ND         1.0         0.30           71-43-2         Benzene         ND	79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
75-34-3         1,1-Dichloroethane         0.83         J         1.0         0.38           75-35-4         1,1-Dichloroethane         ND         1.0         0.29           120-82-1         1,2,4-Trichlorobenzene         ND         1.0         0.41           96-12-8         1,2-Dibromo-3-Chloropropane         ND         1.0         0.39           106-93-4         1,2-Dibromo-3-Chloropropane         ND         1.0         0.73           95-50-1         1,2-Dichlorobenzene         ND         1.0         0.71           107-06-2         1,2-Dichloroptopane         ND         1.0         0.72           541-73-1         1,3-Dichlorobenzene         ND         1.0         0.72           541-73-1         1,3-Dichlorobenzene         ND         1.0         0.72           541-73-1         1,4-Dichlorobenzene         ND         1.0         0.72           541-73-1         1,4-Dichlorobenzene         ND         1.0         0.74           78-87-5         1,4-Euchlorobenzene         ND         1.0         0.72           541-73-1         1,4-Dichlorobenzene         ND         1.0         0.74           78-93-3         2-Butanone (MEK)         ND         1.0         0.21<	76-13-1		ND		1.0	0.31
75-35-4         1,1-Dichloroethene         ND         1.0         0.29           120-82-1         1,2,4-Trichlorobenzene         ND         1.0         0.41           96-12-8         1,2-Dibromo-3-Chloropropane         ND         1.0         0.39           106-93-4         1,2-Dibromo-3-Chloropropane         ND         1.0         0.73           95-50-1         1,2-Dichlorobenzene         ND         1.0         0.73           107-06-2         1,2-Dichlorobenzene         ND         1.0         0.72           541-73-1         1,3-Dichlorobenzene         ND         1.0         0.72           541-73-1         1,4-Dichlorobenzene         ND         1.0         0.72           541-73-1         1,4-Dichlorobenzene         ND         1.0         0.84           78-93-3         2-Butanone (MEK)         ND         1.0         0.84           78-93-3         2-Butanone (MIBK)         ND         5.0         1.2           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         1.0         3.0           71-43-2         Benzene         ND         1.0         0.41           75-27-4         Bromoderm         ND         1.0         0.23           75-	79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
120-82-1         1,2,4-Trichlorobenzene         ND         1.0         0.41           96-12-8         1,2-Dibromo-3-Chloropropane         ND         1.0         0.39           106-93-4         1,2-Dibromo-3-Chloropropane         ND         1.0         0.73           95-50-1         1,2-Dichlorobenzene         ND         1.0         0.73           95-50-1         1,2-Dichlorobenzene         ND         1.0         0.71           107-06-2         1,2-Dichlorobenzene         ND         1.0         0.72           541-73-1         1,3-Dichlorobenzene         ND         1.0         0.73           541-73-1         1,3-Dichlorobenzene         ND         1.0         0.78           106-46-7         1,4-Dichlorobenzene         ND         1.0         0.78           106-46-7         1,4-Dichlorobenzene         ND         1.0         0.84           78-93-3         2-Butanone (MEK)         ND         1.0         0.13           591-78-6         2-Hexanone         ND         1.0         1.3           76-64-1         Acetone         ND         1.0         0.12           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         1.0         0.30	75-34-3		0.83	J	1.0	0.38
96-12-8         1,2-Dibromo-3-Chloropropane         ND         1.0         0.39           106-93-4         1,2-Dibromoethane         ND         1.0         0.73           95-50-1         1,2-Dichlorobenzene         ND         1.0         0.73           107-06-2         1,2-Dichlorobenzene         ND         1.0         0.71           107-06-2         1,2-Dichloroptopane         ND         1.0         0.21           541-73-1         1,3-Dichlorobenzene         ND         1.0         0.72           541-73-1         1,3-Dichlorobenzene         ND         1.0         0.78           106-46-7         1,4-Dichlorobenzene         ND         1.0         0.78           106-46-7         1,4-Methyl-2-pentanone (MEK)         ND         1.0         0.84           78-93-3         2-Butanone (MEK)         ND         5.0         1.2           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         1.0         0.41           75-25         Bromodichloromethane         ND         1.0         0.41           75-27-4         Bromodichloromethane         ND         1.0         0.27           74-83-9         Bromoethane         ND         1.0         0.27	75-35-4	1,1-Dichloroethene	ND		1.0	0.29
Interpretation         Interpretation         Interpretation           106-93-4         1,2-Dichomoethane         ND         1.0         0.73           95-50-1         1,2-Dichlorobenzene         ND         1.0         0.73           107-06-2         1,2-Dichlorobenzene         ND         1.0         0.71           78-87-5         1,2-Dichloropropane         ND         1.0         0.72           541-73-1         1,3-Dichlorobenzene         ND         1.0         0.78           106-46-7         1,4-Dichlorobenzene         ND         1.0         0.78           106-46-7         1,4-Dichlorobenzene         ND         1.0         0.78           78-93-3         2-Butanone (MEK)         ND         1.0         0.84           78-93-3         2-Butanone (MEK)         ND         1.0         1.2           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         5.0         2.1           67-64-1         Acetone         ND         1.0         0.41           75-27-4         Bromodichloromethane         ND         1.0         0.26           74-83-9         Bromomethane         ND         1.0         0.27           108-90-7         Chlorobenzene	120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
95-50-1         1,2-Dichlorobenzene         ND         1.0         0.79           107-06-2         1,2-Dichlorobenzene         ND         1.0         0.21           78-87-5         1,2-Dichloropropane         ND         1.0         0.72           541-73-1         1,3-Dichlorobenzene         ND         1.0         0.72           541-73-1         1,3-Dichlorobenzene         ND         1.0         0.78           106-46-7         1,4-Dichlorobenzene         ND         1.0         0.78           106-46-7         1,4-Dichlorobenzene         ND         1.0         0.78           106-46-7         1,4-Dichlorobenzene         ND         1.0         0.84           106-41         Acetone (MEK)         ND         10         1.3           591-78-6         2-Hexanone (MIBK)         ND         1.0         0.84           71-43-2         Benzene         ND         1.0         0.41           75-27-4         Bromodichloromethane         ND         1.0         0.39           75-25-2         Bromomethane         ND         1.0         0.26           74-83-9         Bromomethane         ND         1.0         0.19           56-23-5         Carbon disu	96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
107-06-2         1,2-Dichloroethane         ND         1.0         0.21           78-87-5         1,2-Dichloropropane         ND         1.0         0.72           541-73-1         1,3-Dichlorobenzene         ND         1.0         0.78           106-46-7         1,4-Dichlorobenzene         ND         1.0         0.84           78-93-3         2-Butanone (MEK)         ND         10         1.3           591-78-6         2-Hexanone         ND         5.0         1.2           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         5.0         2.1           67-64-1         Acetone         ND         10         3.0           71-43-2         Benzene         ND         1.0         0.41           75-27-4         Bromodichloromethane         ND         1.0         0.39           75-25-2         Bromoform         ND         1.0         0.21           74-83-9         Bromomethane         ND         1.0         0.23           75-15-0         Carbon disulfide         ND         1.0         0.27           108-90-7         Chlorobenzene         ND         1.0         0.32           75-15-0         Carbon disulfide         ND	106-93-4	1,2-Dibromoethane	ND		1.0	0.73
78-87-5         1,2-Dichloropropane         ND         1.0         0.72           541-73-1         1,3-Dichlorobenzene         ND         1.0         0.78           106-46-7         1,4-Dichlorobenzene         ND         1.0         0.84           78-93-3         2-Butanone (MEK)         ND         10         1.3           591-78-6         2-Hexanone         ND         5.0         1.2           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         5.0         2.1           67-64-1         Acetone         ND         100         3.0           71-43-2         Benzene         ND         1.0         0.41           75-27-4         Bromodichloromethane         ND         1.0         0.39           75-25-2         Bromoform         ND         1.0         0.26           74-83-9         Bromomethane         ND         1.0         0.27           108-90-7         Chlorobenzene         ND         1.0         0.32           75-50-3         Chlorobenzene         ND         1.0         0.34           74-87-3         Chlorobenzene         ND         1.0         0.35           75-00-3         Chlorobenzene         ND	95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
541-73-1         1,3-Dichlorobenzene         ND         1.0         0.78           106-46-7         1,4-Dichlorobenzene         ND         1.0         0.84           78-93-3         2-Butanone (MEK)         ND         10         1.3           591-78-6         2-Hexanone         ND         5.0         1.2           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         5.0         2.1           67-64-1         Acetone         ND         10         3.0           71-43-2         Benzene         ND         1.0         0.41           75-27-4         Bromodichloromethane         ND         1.0         0.39           75-25-2         Bromomethane         ND         1.0         0.26           74-83-9         Bromomethane         ND         1.0         0.19           56-23-5         Carbon disulfide         ND         1.0         0.27           108-90-7         Chlorobenzene         ND         1.0         0.32           75-00-3         Chloroform         ND         1.0         0.32           67-66-3         Chloroform         ND         1.0         0.34           74-87-3         Chloroformethane         ND         <	107-06-2	1,2-Dichloroethane	ND		1.0	0.21
106-46-7         1,4-Dichlorobenzene         ND         1.0         0.84           78-93-3         2-Butanone (MEK)         ND         10         1.3           591-78-6         2-Hexanone         ND         5.0         1.2           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         5.0         2.1           67-64-1         Acetone         ND         10         3.0           71-43-2         Benzene         ND         1.0         0.41           75-27-4         Bromodichloromethane         ND         1.0         0.39           75-25-2         Bromoform         ND         1.0         0.26           74-83-9         Bromomethane         ND         1.0         0.26           75-15-0         Carbon disulfide         ND         1.0         0.27           108-90-7         Chlorobenzene         ND         1.0         0.27           108-90-7         Chlorobenzene         ND         1.0         0.27           108-90-7         Chlorobenzene         ND         1.0         0.34           74-87-3         Chlorobenzene         ND         1.0         0.35           156-59-2         cis-1,2-Dichloroethene         2.8	78-87-5	1,2-Dichloropropane	ND		1.0	0.72
78-93-3         2-Butanone (MEK)         ND         10         1.3           591-78-6         2-Hexanone         ND         5.0         1.2           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         5.0         2.1           67-64-1         Acetone         ND         10         3.0           71-43-2         Benzene         ND         1.0         0.41           75-27-4         Bromodichloromethane         ND         1.0         0.39           75-25-2         Bromoform         ND         1.0         0.26           74-83-9         Bromomethane         ND         1.0         0.26           75-25-2         Bromotethane         ND         1.0         0.26           74-83-9         Bromotethane         ND         1.0         0.26           75-50-0         Carbon disulfide         ND         1.0         0.27           108-90-7         Chlorobenzene         ND         1.0         0.27           108-90-7         Chlorobenzene         ND         1.0         0.32           75-00-3         Chloroform         ND         1.0         0.34           74-87-3         Chloromethane         ND         1.0	541-73-1		ND		1.0	0.78
591-78-6         2-Hexanone         ND         5.0         1.2           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         5.0         2.1           67-64-1         Acetone         ND         100         3.0           71-43-2         Benzene         ND         1.00         0.41           75-27-4         Bromodichloromethane         ND         1.00         0.39           75-25-2         Bromoform         ND         1.00         0.26           74-83-9         Bromomethane         ND         1.00         0.26           75-15-0         Carbon disulfide         ND         1.00         0.26           75-25-2         Bromomethane         ND         1.00         0.26           74-83-9         Bromomethane         ND         1.00         0.26           75-15-0         Carbon disulfide         ND         1.00         0.27           108-90-7         Chlorobenzene         ND         1.00         0.32           67-66-3         Chloroform         ND         1.00         0.34           74-87-3         Chloromethane         ND         1.00         0.35           156-59-2         cis-1, 3-Dichloroptopene         ND	106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
108-10-1         4-Methyl-2-pentanone (MIBK)         ND         5.0         2.1           108-10-1         A-Methyl-2-pentanone (MIBK)         ND         5.0         2.1           67-64-1         Acetone         ND         1.0         3.0           71-43-2         Benzene         ND         1.0         0.41           75-27-4         Bromodichloromethane         ND         1.0         0.39           75-25-2         Bromoform         ND         1.0         0.26           74-83-9         Bromomethane         ND         1.0         0.26           74-83-9         Bromomethane         ND         1.0         0.26           75-15-0         Carbon disulfide         ND         1.0         0.27           108-90-7         Chlorobenzene         ND         1.0         0.32           67-66-3         Chloroform         ND         1.0         0.34           74-87-3         Chloromethane         ND         1.0         0.34           74-87-3         Chloromethane         ND         1.0         0.35           156-59-2         cis-1,2-Dichloroethene         2.8         1.0         0.81           10061-01-5         cis-1,3-Dichloropropene	78-93-3	2-Butanone (MEK)	ND		10	1.3
67-64-1         Acetone         ND         10         3.0           71-43-2         Benzene         ND         1.0         0.41           75-27-4         Bromodichloromethane         ND         1.0         0.39           75-27-4         Bromodichloromethane         ND         1.0         0.39           75-27-2         Bromoform         ND         1.0         0.26           74-83-9         Bromomethane         ND         1.0         0.69           75-15-0         Carbon disulfide         ND         1.0         0.19           56-23-5         Carbon tetrachloride         ND         1.0         0.27           108-90-7         Chlorobenzene         ND         1.0         0.75           75-00-3         Chloroform         ND         1.0         0.32           67-66-3         Chloroform         ND         1.0         0.34           74-87-3         Chloromethane         ND         1.0         0.35           156-59-2         cis-1, 2-Dichloroethene         2.8         1.0         0.81           10061-01-5         cis-1, 3-Dichloropropene         ND         1.0         0.36           10061-01-5         cis-1, 3-Dichloropropene	591-78-6		ND		5.0	1.2
71-43-2BenzeneND1.00.4175-27-4BromodichloromethaneND1.00.3975-25-2BromoformND1.00.2674-83-9BromomethaneND1.00.6975-15-0Carbon disulfideND1.00.1956-23-5Carbon tetrachlorideND1.00.27108-90-7ChlorobenzeneND1.00.7575-00-3ChloroformND1.00.3267-66-3ChloroformND1.00.3474-87-3ChloromethaneND1.00.35156-59-2cis-1,2-Dichloroethene2.81.00.8110061-01-5cis-1,3-DichloropropeneND1.00.36110-82-7CyclohexaneND1.00.32124-48-1DibromochloromethaneND1.00.32	108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
75-27-4         Bromodichloromethane         ND         1.0         0.39           75-27-4         Bromodichloromethane         ND         1.0         0.39           75-25-2         Bromoform         ND         1.0         0.26           74-83-9         Bromomethane         ND         1.0         0.26           75-25-2         Bromoform         ND         1.0         0.69           75-15-0         Carbon disulfide         ND         1.0         0.19           56-23-5         Carbon tetrachloride         ND         1.0         0.27           108-90-7         Chlorobenzene         ND         1.0         0.75           75-00-3         Chloroform         ND         1.0         0.32           67-66-3         Chloroform         ND         1.0         0.34           74-87-3         Chloromethane         ND         1.0         0.35           156-59-2         cis-1,2-Dichloroethene         2.8         1.0         0.81           10061-01-5         cis-1,3-Dichloropropene         ND         1.0         0.36           110-82-7         Cyclohexane         ND         1.0         0.18           124-48-1         Dibromochloromethane	67-64-1	Acetone	ND		10	3.0
75-25-2         Bromoform         ND         1.0         0.26           74-83-9         Bromomethane         ND         1.0         0.69           75-15-0         Carbon disulfide         ND         1.0         0.19           56-23-5         Carbon tetrachloride         ND         1.0         0.27           108-90-7         Chlorobenzene         ND         1.0         0.75           75-00-3         Chloroethane         ND         1.0         0.32           67-66-3         Chloromethane         ND         1.0         0.34           74-87-3         Chloromethane         ND         1.0         0.35           156-59-2         cis-1,2-Dichloroethene         2.8         1.0         0.35           1061-01-5         cis-1,3-Dichloropropene         ND         1.0         0.36           110-82-7         Cyclohexane         ND         1.0         0.38           124-48-1         Dibromochloromethane         ND         1.0         0.38	71-43-2		ND		1.0	0.41
74-83-9         Bromomethane         ND         1.0         0.69           75-15-0         Carbon disulfide         ND         1.0         0.19           56-23-5         Carbon tetrachloride         ND         1.0         0.27           108-90-7         Chlorobenzene         ND         1.0         0.75           75-00-3         Chloroethane         ND         1.0         0.32           67-66-3         Chloromethane         ND         1.0         0.34           74-87-3         Chloromethane         ND         1.0         0.35           156-59-2         cis-1,2-Dichloroethene         2.8         1.0         0.81           10061-01-5         cis-1,3-Dichloropropene         ND         1.0         0.36           110-82-7         Cyclohexane         ND         1.0         0.38           124-48-1         Dibromochloromethane         ND         1.0         0.38	75-27-4	Bromodichloromethane	ND		1.0	0.39
75-15-0         Carbon disulfide         ND         1.0         0.19           56-23-5         Carbon tetrachloride         ND         1.0         0.27           108-90-7         Chlorobenzene         ND         1.0         0.75           75-00-3         Chloroethane         ND         1.0         0.32           67-66-3         Chloromthane         ND         1.0         0.34           74-87-3         Chloromethane         ND         1.0         0.35           156-59-2         cis-1,2-Dichloroethene         2.8         1.0         0.81           10061-01-5         cis-1,3-Dichloropropene         ND         1.0         0.36           110-82-7         Cyclohexane         ND         1.0         0.38           124-48-1         Dibromochloromethane         ND         1.0         0.32	75-25-2	Bromoform	ND		1.0	0.26
56-23-5         Carbon tetrachloride         ND         1.0         0.27           108-90-7         Chlorobenzene         ND         1.0         0.75           75-00-3         Chloroethane         ND         1.0         0.32           67-66-3         Chloromthane         ND         1.0         0.34           74-87-3         Chloromethane         ND         1.0         0.35           156-59-2         cis-1,2-Dichloroethene         2.8         1.0         0.81           10061-01-5         cis-1,3-Dichloropropene         ND         1.0         0.36           110-82-7         Cyclohexane         ND         1.0         0.18           124-48-1         Dibromochloromethane         ND         1.0         0.32	74-83-9	Bromomethane	ND		1.0	0.69
108-90-7         Chlorobenzene         ND         1.0         0.75           75-00-3         Chloroethane         ND         1.0         0.32           67-66-3         Chloroform         ND         1.0         0.34           74-87-3         Chloromethane         ND         1.0         0.35           156-59-2         cis-1,2-Dichloroethene         2.8         1.0         0.81           10061-01-5         cis-1,3-Dichloropropene         ND         1.0         0.36           110-82-7         Cyclohexane         ND         1.0         0.18           124-48-1         Dibromochloromethane         ND         1.0         0.32	75-15-0	Carbon disulfide	ND		1.0	0.19
75-00-3         Chloroethane         ND         1.0         0.32           67-66-3         Chloroform         ND         1.0         0.34           74-87-3         Chloromethane         ND         1.0         0.35           156-59-2         cis-1,2-Dichloroethene         2.8         1.0         0.81           10061-01-5         cis-1,3-Dichloropropene         ND         1.0         0.36           110-82-7         Cyclohexane         ND         1.0         0.18           124-48-1         Dibromochloromethane         ND         1.0         0.32	56-23-5	Carbon tetrachloride	ND		1.0	0.27
67-66-3         Chloroform         ND         1.0         0.34           74-87-3         Chloromethane         ND         1.0         0.35           156-59-2         cis-1,2-Dichloroethene         2.8         1.0         0.81           10061-01-5         cis-1,3-Dichloropropene         ND         1.0         0.36           110-82-7         Cyclohexane         ND         1.0         0.18           124-48-1         Dibromochloromethane         ND         1.0         0.32	108-90-7	Chlorobenzene	ND		1.0	0.75
74-87-3         Chloromethane         ND         1.0         0.35           156-59-2         cis-1,2-Dichloroethene         2.8         1.0         0.81           10061-01-5         cis-1,3-Dichloropropene         ND         1.0         0.36           110-82-7         Cyclohexane         ND         1.0         0.18           124-48-1         Dibromochloromethane         ND         1.0         0.32		Chloroethane	ND		1.0	0.32
156-59-2         cis-1,2-Dichloroethene         2.8         1.0         0.81           10061-01-5         cis-1,3-Dichloropropene         ND         1.0         0.36           110-82-7         Cyclohexane         ND         1.0         0.18           124-48-1         Dibromochloromethane         ND         1.0         0.32	67-66-3	Chloroform	ND		1.0	0.34
10061-01-5         cis-1,3-Dichloropropene         ND         1.0         0.36           110-82-7         Cyclohexane         ND         1.0         0.18           124-48-1         Dibromochloromethane         ND         1.0         0.32	74-87-3	Chloromethane	ND		1.0	0.35
110-82-7         Cyclohexane         ND         1.0         0.18           124-48-1         Dibromochloromethane         ND         1.0         0.32			2.8		1.0	
124-48-1         Dibromochloromethane         ND         1.0         0.32	10061-01-5		ND		1.0	0.36
	110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8DichlorodifluoromethaneND1.00.68	124-48-1	Dibromochloromethane	ND		1.0	0.32
	75-71-8	Dichlorodifluoromethane	ND		1.0	0.68

Lab Name: Eurofins Buffalo	Job No.: <u>480-197706-1</u>
SDG No.:	
Client Sample ID: MW-07	Lab Sample ID: <u>480-197706-5</u>
Matrix: Water	Lab File ID: D9583.D
Analysis Method: 8260C	Date Collected: 05/09/2022 14:49
Sample wt/vol: 5(mL)	Date Analyzed: 05/17/2022 03:12
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) N pH:
% Moisture: % Solids:	Level: (low/med) Low
Analysis Batch No.: 626280	Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	4.2		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	6.1		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123
2037-26-5	Toluene-d8 (Surr)	102		80-120

Lab Name: Eurofins Buffalo	Job No.: 480-197706-1		
SDG No.:			
Client Sample ID: TB-050922	Lab Sample ID: <u>480-197706-6</u>		
Matrix: Water	Lab File ID: D9584.D		
Analysis Method: 8260C	Date Collected: 05/09/2022 16:00		
Sample wt/vol: 5(mL)	Date Analyzed: 05/17/2022 03:33		
Soil Aliquot Vol:	Dilution Factor: 1		
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)		
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) N pH:		
% Moisture: % Solids:	Level: (low/med) Low		
Analysis Batch No.: 626280	Units: ug/L		

71-55-6         1,1,1-Trichloroethane         ND         1.0           79-34-5         1,1,2,2-Tetrachloroethane         ND         1.0           76-13-1         1,1,2,2-Trichloro-1,2,2-trifluoroethan         ND         1.0           e	0.82
76-13-1         1,1,2-Trichloro-1,2,2-trifluoroethan         ND         1.0           79-00-5         1,1,2-Trichloroethane         ND         1.0           75-34-3         1,1-Dichloroethane         ND         1.0           75-35-4         1,1-Dichloroethane         ND         1.0           120-82-1         1,2,4-Trichlorobenzene         ND         1.0           96-12-8         1,2-Dibromo-3-Chloropropane         ND         1.0           106-93-4         1,2-Dibromoethane         ND         1.0           95-50-1         1,2-Dichlorobenzene         ND         1.0           107-06-2         1,2-Dichlorobenzene         ND         1.0           107-06-2         1,2-Dichloropropane         ND         1.0           106-46-7         1,4-Dichlorobenzene         ND         1.0           100         100         1.0         1.0           108-10-1         4-Methyl-2-pentanone (MIBK) </td <td>0.21</td>	0.21
e         ND         1.0           79-00-5         1,1,2-Trichloroethane         ND         1.0           75-34-3         1,1-Dichloroethane         ND         1.0           75-35-4         1,1-Dichloroethene         ND         1.0           120-82-1         1,2,4-Trichlorobenzene         ND         1.0           96-12-8         1,2-Dibromo-3-Chloropropane         ND         1.0           106-93-4         1,2-Dibromoethane         ND         1.0           95-50-1         1,2-Dichlorobenzene         ND         1.0           107-06-2         1,2-Dichlorobenzene         ND         1.0           78-87-5         1,2-Dichlorobenzene         ND         1.0           106-46-7         1,4-Dichlorobenzene         ND         1.0           106-46-7         1,4-Dichlorobenzene         ND         1.0           106-46-7         1,4-Dichlorobenzene         ND         1.0           78-93-3         2-Butanone (MEK)         ND         10           591-78-6         2-Hexanone         ND         5.0           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         5.0           67-64-1         Acetone         ND         10	
79-00-5       1,1,2-Trichloroethane       ND       1.0         75-34-3       1,1-Dichloroethane       ND       1.0         75-35-4       1,1-Dichloroethene       ND       1.0         120-82-1       1,2,4-Trichlorobenzene       ND       1.0         96-12-8       1,2-Dibromo-3-Chloropropane       ND       1.0         106-93-4       1,2-Dibromoethane       ND       1.0         95-50-1       1,2-Dichlorobenzene       ND       1.0         107-06-2       1,2-Dichlorobenzene       ND       1.0         107-06-2       1,2-Dichloropropane       ND       1.0         107-06-2       1,2-Dichloropropane       ND       1.0         106-46-7       1,4-Dichlorobenzene       ND       1.0         106-46-7       1,4-Dichlorobenzene       ND       1.0         106-46-7       1,4-Dichlorobenzene       ND       1.0         78-93-3       2-Butanone (MEK)       ND       10         591-78-6       2-Hexanone       ND       5.0         108-10-1       4-Methyl-2-pentanone (MIBK)       ND       5.0         67-64-1       Acetone       ND       10	0.31
75-35-41,1-DichloroetheneND1.0120-82-11,2,4-TrichlorobenzeneND1.096-12-81,2-Dibromo-3-ChloropropaneND1.0106-93-41,2-DibromoethaneND1.095-50-11,2-DichlorobenzeneND1.0107-06-21,2-DichloroethaneND1.078-87-51,2-DichloropropaneND1.0541-73-11,3-DichlorobenzeneND1.0106-46-71,4-DichlorobenzeneND1.0106-46-71,4-DichlorobenzeneND1.0591-78-62-HexanoneND5.0108-10-14-Methyl-2-pentanone (MIBK)ND5.067-64-1AcetoneND10	0.23
120-82-1       1,2,4-Trichlorobenzene       ND       1.0         96-12-8       1,2-Dibromo-3-Chloropropane       ND       1.0         106-93-4       1,2-Dibromoethane       ND       1.0         95-50-1       1,2-Dichlorobenzene       ND       1.0         107-06-2       1,2-Dichloroethane       ND       1.0         107-06-2       1,2-Dichloroethane       ND       1.0         78-87-5       1,2-Dichloropropane       ND       1.0         78-87-5       1,2-Dichlorobenzene       ND       1.0         106-46-7       1,4-Dichlorobenzene       ND       1.0         106-46-7       1,4-Dichlorobenzene       ND       1.0         78-93-3       2-Butanone (MEK)       ND       1.0         591-78-6       2-Hexanone       ND       5.0         108-10-1       4-Methyl-2-pentanone (MIBK)       ND       5.0         67-64-1       Acetone       ND       10	0.38
96-12-8         1,2-Dibromo-3-Chloropropane         ND         1.0           106-93-4         1,2-Dibromoethane         ND         1.0           95-50-1         1,2-Dichlorobenzene         ND         1.0           107-06-2         1,2-Dichlorobenzene         ND         1.0           78-87-5         1,2-Dichloropropane         ND         1.0           541-73-1         1,3-Dichlorobenzene         ND         1.0           106-46-7         1,4-Dichlorobenzene         ND         1.0           78-93-3         2-Butanone (MEK)         ND         1.0           591-78-6         2-Hexanone         ND         5.0           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         5.0           67-64-1         Acetone         ND         10	0.29
106-93-4       1,2-Dibromoethane       ND       1.0         95-50-1       1,2-Dichlorobenzene       ND       1.0         107-06-2       1,2-Dichloroethane       ND       1.0         78-87-5       1,2-Dichloropropane       ND       1.0         541-73-1       1,3-Dichlorobenzene       ND       1.0         106-46-7       1,4-Dichlorobenzene       ND       1.0         78-93-3       2-Butanone (MEK)       ND       10         591-78-6       2-Hexanone       ND       5.0         108-10-1       4-Methyl-2-pentanone (MIBK)       ND       5.0         67-64-1       Acetone       ND       10	0.41
95-50-1         1,2-Dichlorobenzene         ND         1.0           107-06-2         1,2-Dichloroethane         ND         1.0           78-87-5         1,2-Dichloropropane         ND         1.0           541-73-1         1,3-Dichlorobenzene         ND         1.0           106-46-7         1,4-Dichlorobenzene         ND         1.0           78-93-3         2-Butanone (MEK)         ND         10           591-78-6         2-Hexanone         ND         5.0           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         5.0           67-64-1         Acetone         ND         10	0.39
107-06-2         1,2-Dichloroethane         ND         1.0           78-87-5         1,2-Dichloropropane         ND         1.0           541-73-1         1,3-Dichlorobenzene         ND         1.0           106-46-7         1,4-Dichlorobenzene         ND         1.0           78-93-3         2-Butanone (MEK)         ND         10           591-78-6         2-Hexanone         ND         5.0           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         5.0           67-64-1         Acetone         ND         10	0.73
78-87-5         1,2-Dichloropropane         ND         1.0           541-73-1         1,3-Dichlorobenzene         ND         1.0           106-46-7         1,4-Dichlorobenzene         ND         1.0           78-93-3         2-Butanone (MEK)         ND         10           591-78-6         2-Hexanone         ND         5.0           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         5.0           67-64-1         Acetone         ND         10	0.79
541-73-1         1,3-Dichlorobenzene         ND         1.0           106-46-7         1,4-Dichlorobenzene         ND         1.0           78-93-3         2-Butanone (MEK)         ND         10           591-78-6         2-Hexanone         ND         5.0           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         5.0           67-64-1         Acetone         ND         10	0.21
106-46-7         1,4-Dichlorobenzene         ND         1.0           78-93-3         2-Butanone (MEK)         ND         10           591-78-6         2-Hexanone         ND         5.0           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         5.0           67-64-1         Acetone         ND         10	0.72
78-93-3         2-Butanone (MEK)         ND         10           591-78-6         2-Hexanone         ND         5.0           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         5.0           67-64-1         Acetone         ND         10	0.78
591-78-6         2-Hexanone         ND         5.0           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         5.0           67-64-1         Acetone         ND         10	0.84
108-10-1         4-Methyl-2-pentanone (MIBK)         ND         5.0           67-64-1         Acetone         ND         10	1.3
67-64-1         Acetone         ND         10	1.2
	2.1
71-43-2 Benzene ND 1.0	3.0
	0.41
75-27-4BromodichloromethaneND1.0	0.39
75-25-2 Bromoform ND 1.0	0.26
74-83-9 Bromomethane ND 1.0	0.69
75-15-0 Carbon disulfide ND 1.0	0.19
56-23-5Carbon tetrachlorideND1.0	0.27
108-90-7 Chlorobenzene ND 1.0	0.75
75-00-3 Chloroethane ND 1.0	0.32
67-66-3 Chloroform ND 1.0	0.34
74-87-3 Chloromethane ND 1.0	0.35
156-59-2 cis-1,2-Dichloroethene ND 1.0	0.81
10061-01-5 cis-1,3-Dichloropropene ND 1.0	0.36
110-82-7 Cyclohexane ND 1.0	0.18
124-48-1 Dibromochloromethane ND 1.0	0.32
75-71-8 Dichlorodifluoromethane ND 1.0	0.68

Lab Name: Eurofins Buffalo	Job No.: 480-197706-1
SDG No.:	
Client Sample ID: TB-050922	Lab Sample ID: 480-197706-6
Matrix: Water	Lab File ID: D9584.D
Analysis Method: 8260C	Date Collected: 05/09/2022 16:00
Sample wt/vol: 5(mL)	Date Analyzed: 05/17/2022 03:33
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) N pH:
% Moisture: % Solids:	Level: (low/med) Low
Analysis Batch No.: 626280	Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		77-120
460-00-4	4-Bromofluorobenzene (Surr)	103		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		75-123
2037-26-5	Toluene-d8 (Surr)	102		80-120

Lab Name: Eurofins Buffalo	Job No.: 480-197706-1
SDG No.:	
Client Sample ID: MW-22	Lab Sample ID: <u>480-197706-2</u>
Matrix: Water	Lab File ID: pe3_070_259.D
Analysis Method: RSK-175	Date Collected: 05/09/2022 11:29
Sample wt/vol: <u>17(mL)</u>	Date Analyzed: 05/18/2022 08:03
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: Alumina ID: 0.53(mm)
Purge Volume:	Heated Purge: (Y/N) N pH: 2.0
% Moisture: % Soli	ds: Level: (low/med) Low
Analysis Batch No.: 626528	Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	230		4.0	1.0

Lab Name: Eurofins Buffalo	Job No.: 480-197706-1				
SDG No.:					
Client Sample ID: MW-05R	Lab Sample ID: <u>480-197706-3</u>				
Matrix: Water	Lab File ID: pe3_070_260.D				
Analysis Method: RSK-175	Date Collected: 05/09/2022 13:33				
Sample wt/vol: 17(mL)	Date Analyzed: 05/18/2022 08:22				
Soil Aliquot Vol:	Dilution Factor: 1				
Soil Extract Vol.:	GC Column: Alumina ID: 0.53(mm)				
Purge Volume:	Heated Purge: (Y/N) N pH: 2.0				
% Moisture: % Solids:	Level: (low/med) Low				
Analysis Batch No.: 626528	Units: ug/L				

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	73		4.0	1.0

Lab Name: Eurofins Buffalo	Job No.: 480-197706-1			
SDG No.:				
Client Sample ID: RB-050922	Lab Sample ID: <u>480-197706-4</u>			
Matrix: Water	Lab File ID: pe3_070_261.D			
Analysis Method: RSK-175	Date Collected: 05/09/2022 14:30			
Sample wt/vol: 17(mL)	Date Analyzed: 05/18/2022 08:41			
Soil Aliquot Vol:	Dilution Factor: 1			
Soil Extract Vol.:	GC Column: Alumina ID: 0.53(mm)			
Purge Volume:	Heated Purge: (Y/N) <u>PH: 2.0</u>			
% Moisture: % Solids:	Level: (low/med) Low			
Analysis Batch No.: 626528	Units: ug/L			

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	ND		4.0	1.0

Lab Name: Eurofins Buffalo	Job No.: 480-197706-1				
SDG No.:					
Client Sample ID: MW-07	Lab Sample ID: <u>480-197706-2</u>				
Matrix: <u>Water</u>	Lab File ID: pe3_070_565.D				
Analysis Method: RSK-172	Date Collected: 02/09/5055 14:49				
Sample wt/vol: 17(mL)	Date Analyzed: 02/18/5055 09:00				
Soil Aliquot Vol:	Dilution Factor: 1				
Soil Extract Vol.:	GC Column: Alumina ID: 0.23(mm)				
Purge Volume:	Heated Purge: (Y/N) N pH: 5.0				
% Moisture: % Solids:	Level: (low/med) Low				
Analysis Batch No.: 656258	Units: ug/L				

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-8	Methane	51		4.0	1.0

Job No.: 480-197706-1				
Lab Sample ID: <u>480-197706-6</u>				
Lab File ID: pe3_070_263.D				
Date Collected: 05/09/2022 16:00				
Date Analyzed: 05/18/2022 09:18				
Dilution Factor: 1				
GC Column: Alumina ID: 0.53(mm)				
Heated Purge: (Y/N) <u>N</u> pH: 2.0				
Level: (low/med) Low				
Units: ug/L				

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	ND		4.0	1.0

Client Sample ID: MW-14				Lab Sample ID: 480-197706-1						
Lab Name: Eu	Job No.: 480-197706-1									
SDG ID.:										
Matrix: Wate	Date Sampled: 05/09/2022 09:22 Date Received: 05/09/2022 16:22									
Reporting Bas										
CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method	
7429-90-5	Aluminum	ND	0.20	0.060	mg/L			1	6010C	
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C	
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C	
7440-39-3	Barium	0.092	0.0020	0.00070	mg/L			1	6010C	
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C	
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C	
7440-70-2	Calcium	153	0.50	0.10	mg/L			1	6010C	
7440-47-3	Chromium	ND	0.0040	0.0010	mg/L			1	6010C	
7440-48-4	Cobalt	0.0013	0.0040	0.00063	mg/L	J		1	6010C	
7440-50-8	Copper	ND	0.010	0.010	mg/L	U		1	6010C	
7439-89-6	Iron	1.7	0.050	0.019	mg/L			1	6010C	
7439-92-1	Lead	0.0033	0.010	0.0030	mg/L	J		1	6010C	
7439-95-4	Magnesium	19.8	0.20	0.043	mg/L			1	6010C	
7439-96-5	Manganese	0.67	0.0030	0.00040	mg/L			1	6010C	
7440-02-0	Nickel	0.0028	0.010	0.0013	mg/L	J		1	6010C	
7440-09-7	Potassium	7.5	0.50	0.10	mg/L			1	6010C	
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C	
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C	
7440-23-5	Sodium	83.6	1.0	0.32	mg/L			1	6010C	
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C	
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010C	

0.010

0.00020

0.0015

0.000043 mg/L

mg/L

0.13

ND

7440-66-6

7439-97-6

Zinc

Mercury

1

1

6010C

7470A

Client Sample ID: MW-22 Lab Name: Eurofins Buffalo				Lab Sample ID: 480-197706-2 Job No.: 480-197706-1							
											SDG ID.:
Matrix: Wate	Date Sampled: 05/09/2022 11:29										
				-							
Reporting Basis: WET				Date Received: 05/09/2022 16:22							
CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method		
7429-90-5	Aluminum	8.9	0.20	0.060	mg/L			1	6010C		
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C		
7440-38-2	Arsenic	0.0062	0.015	0.0056	mg/L	J		1	6010C		
7440-39-3	Barium	0.57	0.0020	0.00070	mg/L			1	6010C		
7440-41-7	Beryllium	0.00034	0.0020	0.00030	mg/L	J		1	6010C		
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C		
7440-70-2	Calcium	139	0.50	0.10	mg/L			1	6010C		
7440-47-3	Chromium	0.0096	0.0040	0.0010	mg/L			1	6010C		
7440-48-4	Cobalt	0.0072	0.0040	0.00063	mg/L			1	6010C		
7440-50-8	Copper	ND	0.036	0.0036	mg/L	U		1	6010C		
7439-89-6	Iron	11.4	0.050	0.019	mg/L	J		1	6010C		
7439-92-1	Lead	0.0090	0.010	0.0030	mg/L	J		1	6010C		
7439-95-4	Magnesium	34.5	0.20	0.043	mg/L			1	6010C		
7439-96-5	Manganese	2.6	0.0030	0.00040	mg/L			1	6010C		
7440-02-0	Nickel	0.015	0.010	0.0013	mg/L			1	6010C		
7440-09-7	Potassium	39.5	0.50	0.10	mg/L			1	6010C		
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C		
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C		
7440-23-5	Sodium	170	1.0	0.32	mg/L			1	6010C		
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C		
7440-62-2	Vanadium	0.015	0.0050	0.0015	mg/L			1	6010C		
7440-66-6	Zinc	0.034	0.010	0.0015	mg/L	1		1	6010C		

ND

0.00020

0.000043 mg/L

7439-97-6

Mercury

7470A

1

# 1A-IN INORGANIC ANALYSIS DATA SHEET METALS - DISSOLVED

Client Sample ID: MW-22				Lab Sample ID: 480-197706-2							
Lab Name: Eurofins Buffalo				Job No.: 480-197706-1							
SDG ID.:											
Matrix: Water				Date Sampled: 05/09/2022 11:29							
Reporting Basis: WET				Date Recei	ved: 05/0	9/2022	16:22				
CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method		
7439-89-6 Iron, Dissolved 2.4 0.0				0.019	mg/L			1	6010C		

Client Sample ID: MW-05R				Lab Sample ID: 480-197706-3							
Lab Name: Eurofins Buffalo				Job No.: 480-197706-1							
SDG ID.:											
Matrix: Water Reporting Basis: WET				Date Sampled: 05/09/2022 13:33 Date Received: 05/09/2022 16:22							
7429-90-5	Aluminum	0.10	0.20	0.060	mg/L	J		1	6010C		
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C		
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C		
7440-39-3	Barium	0.16	0.0020	0.00070	mg/L			1	6010C		
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C		
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C		
7440-70-2	Calcium	105	0.50	0.10	mg/L			1	6010C		
7440-47-3	Chromium	ND	0.0040	0.0010	mg/L			1	6010C		
7440-48-4	Cobalt	ND	0.0040	0.00063	mg/L			1	6010C		
7440-50-8	Copper	ND	0.010	0.010	mg/L	U		1	6010C		
7439-89-6	Iron	0.16	0.050	0.019	mg/L			1	6010C		
7439-92-1	Lead	ND	0.010	0.0030	mg/L			1	6010C		
7439-95-4	Magnesium	13.8	0.20	0.043	mg/L			1	6010C		
7439-96-5	Manganese	1.0	0.0030	0.00040	mg/L			1	6010C		
7440-02-0	Nickel	0.0019	0.010	0.0013	mg/L	J		1	6010C		
7440-09-7	Potassium	5.4	0.50	0.10	mg/L			1	6010C		
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C		
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C		
7440-23-5	Sodium	30.9	1.0	0.32	mg/L			1	6010C		
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C		
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010C		
7440-66-6	Zinc	ND	0.010	0.0015	mq/L			1	6010C		

ND

0.00020

0.000043 mg/L

7439-97-6

Mercury

7470A

1

# 1A-IN INORGANIC ANALYSIS DATA SHEET METALS - DISSOLVED

Client Sample	Client Sample ID: MW-05R				ID: 480-	-197706-	3			
Lab Name: Eurofins Buffalo				Job No.: 480-197706-1						
SDG ID.:										
Matrix: Water				Date Sampl	ed: 05/09	/2022	13:33			
Reporting Basis: WET				Date Recei	ved: 05/0	9/2022	16:22			
						-				
CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method	
7439-89-6	Iron, Dissolved	0.033	0.050	0.019	mg/L	J		1	6010C	

Client Sample	ID: RB-050922			Lab Sample ID: 480-197706-4							
Lab Name: Eu	rofins Buffalo			Job No.: 480-197706-1							
SDG ID.:											
Matrix: Wate	Matrix: Water					9/2022	14:30				
Reporting Bas	sis: WET			Date Recei	.ved: 05/0	9/2022	16:22				
CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method		
7429-90-5	Aluminum	ND	0.20	0.060	mg/L			1	6010C		
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C		
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C		
7440-39-3	Barium	ND	0.0020	0.00070	mg/L			1	6010C		
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C		
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C		
7440-70-2	Calcium	ND	0.50	0.10	mg/L			1	6010C		
7440-47-3	Chromium	ND	0.0040	0.0010	mg/L			1	6010C		
7440-48-4	Cobalt	ND	0.0040	0.00063	mg/L			1	6010C		
7440-50-8	Copper	ND	0.010	0.0016	mg/L			1	6010C		
7439-89-6	Iron	ND	0.050	0.019	mg/L			1	6010C		
7439-92-1	Lead	ND	0.010	0.0030	mg/L			1	6010C		
7439-95-4	Magnesium	ND	0.20	0.043	mg/L			1	6010C		
7439-96-5	Manganese	ND	0.0030	0.00040	mg/L			1	6010C		
7440-02-0	Nickel	ND	0.010	0.0013	mg/L			1	6010C		
7440-09-7	Potassium	ND	0.50	0.10	mg/L			1	6010C		
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C		
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C		
7440-23-5	Sodium	ND	1.0	0.32	mg/L			1	6010C		
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C		
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010C		

ND

ND

0.010

0.00020

0.0015

0.000043 mg/L

mg/L

7440-66-6

7439-97-6

Zinc

Mercury

1

1

6010C

7470A

# 1A-IN INORGANIC ANALYSIS DATA SHEET METALS - DISSOLVED

Client Sample ID: RB-050922				Lab Sample	ID: 480-	197706-	4			
Lab Name: Eurofins Buffalo				Job No.: 480-197706-1						
SDG ID.:										
Matrix: Water				Date Sampl	.ed: 05/09	/2022	14:30			
Reporting Basis: WET				Date Recei	ved: 05/0	9/2022	16:22			
				1						
CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method	
7439-89-6	Iron, Dissolved	ND	0.050	0.019	mg/L			1	6010C	

Client Sample	e ID: MW-07			Lab Sample ID: 480-197706-5						
Lab Name: E	urofins Buffalo			Job No.:	480-19770	6-1				
SDG ID.:										
Matrix: Wate	Date Sampl	ed: 05/0	9/2022	14:49						
Reporting Bas	Date Recei	ved: 05/	09/2022	16:22						
CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method	
7429-90-5	Aluminum	0.11	0.20	0.060	mg/L	J		1	6010C	
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C	
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C	
7440-39-3	Barium	0.19	0.0020	0.00070	mg/L			1	6010C	
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C	
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C	
7440-70-2	Calcium	118	0.50	0.10	mg/L			1	6010C	
7440-47-3	Chromium	ND	0.0040	0.0010	mg/L			1	6010C	
7440-48-4	Cobalt	0.0043	0.0040	0.00063	mg/L			1	6010C	
7440-50-8	Copper	ND	0.010	0.010	mg/L	U		1	6010C	
7439-89-6	Iron	0.82	0.050	0.019	mg/L			1	6010C	
7439-92-1	Lead	ND	0.010	0.0030	mg/L			1	6010C	
7439-95-4	Magnesium	14.4	0.20	0.043	mg/L			1	6010C	
7439-96-5	Manganese	2.1	0.0030	0.00040	mg/L			1	6010C	
7440-02-0	Nickel	0.0015	0.010	0.0013	mg/L	J		1	6010C	
7440-09-7	Potassium	3.8	0.50	0.10	mg/L			1	6010C	
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C	
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C	
7440-23-5	Sodium	18.9	1.0	0.32	mg/L			1	6010C	
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C	
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010C	
7440-66-6	Zinc	ND	0.010	0.010	mg/L	U		1	6010C	

ND

0.00020

0.000043 mg/L

7439-97-6

Mercury

7470A

1

# 1A-IN INORGANIC ANALYSIS DATA SHEET METALS - DISSOLVED

Client Sample	ID: MW-07		Lab Sample	ID: 480-	-197706-	5					
ab Name: Eurofins Buffalo				Job No.: 480-197706-1							
SDG ID.:											
Matrix: Water				Date Sampl	ed: 05/09	/2022	14:49				
Reporting Basis: WET				Date Recei	ved: 05/0	9/2022	16:22				
CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method		
7439-89-6	Iron, Dissolved	0.95	0.050	0.019	mg/L			1	6010C		

Client Sample	ID: MW-22	Lab Sample	e ID: 480-	-197706	-2								
Lab Name: Eu	Lab Name: Eurofins Buffalo					Job No.: 480-197706-1							
SDG ID.:													
Matrix: Wate:	r			Date Sampl	.ed: 05/09	/2022	11:29						
Reporting Bas	is: WET			Date Recei	.ved: 05/0	)9/2022	16:22						
CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method				
16887-00-6	Chloride	133	2.5	1.4	mg/L			5	300.0				
14808-79-8	Sulfate	94.8	10.0	1.7	mg/L			5	300.0				
14797-55-8	Nitrate	ND	0.050	0.020	mg/L			1	Nitrate by calc				
	Alkalinity, Total	637	5.0	0.79	mg/L		J	1	SM 2320B				
	Alkalinity,Total	665	····-5.0-	0 <del>.</del> 7-9	-mg-/-L		H-В F1	<u>1</u> -	- <del>SM</del> -2320 <del>B</del>				

Client Sample	ID: MW-05R		Lab Sample	e ID: 480-	-197706-	3			
Lab Name: Eu	urofins Buffalo		Job No.:	480-197706	5-1				
SDG ID.:									
Matrix: Wate:	r			Date Sampl	.ed: 05/09	/2022	13 <b>:</b> 33		
Reporting Bas	is: WET			Date Recei	.ved: 05/0	9/2022	16 <b>:</b> 22		
[	1	1 1				1	1		
CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
16887-00-6	Chloride	65.2	2.5	1.4	mg/L			5	300.0
14808-79-8	Sulfate	86.5	10.0	1.7	mg/L			5	300.0
14797-55-8	Nitrate	0.83	0.050	0.020	mg/L			1	Nitrate by calc
	Alkalinity, Total	229	5.0	0.79	mg/L			1	SM 2320B

Client Sample	ID: RB-050922		Lab Sample	e ID: 480	-197706-	4			
Lab Name: Eu	rofins Buffalo		Job No.:	480-19770	5-1				
SDG ID.:									
Matrix: Water	<u>-</u>			Date Sampl	.ed: 05/09	9/2022	14:30		
Reporting Basis: WET				Date Recei	.ved: 05/	09/2022	16 <b>:</b> 22		
CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
16887-00-6	Chloride	ND	0.50	0.28	mg/L			1	300.0
14808-79-8	Sulfate	ND	2.0	0.35	mg/L			1	300.0
14797-55-8	Nitrate	0.033	0.050	0.020	mg/L	J		1	Nitrate by calc
	Alkalinity, Total	1.0	5.0	0.79	mg/L	J		1	SM 2320B

Alkalinity, Total

Client Sample	ID: MW-07		Lab Sample	e ID: 480-	-197706-	5				
Lab Name: Eu	rofins Buffalo		Job No.: 480-197706-1							
SDG ID.:										
Matrix: Water	r			Date Sampl	.ed: 05/09	/2022	14:49			
Reporting Basis: WET				Date Recei	ved: 05/0	9/2022	16:22			
CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method	
16887-00-6	Chloride	28.6	1.0	0.56	mg/L			2	300.0	
14808-79-8	Sulfate	24.4	4.0	0.70	mg/L			2	300.0	
14797-55-8	Nitrate	0.053	0.050	0.020	mg/L			1	Nitrate by calc	
	Alkalinity, Total	347	5.0	0.79	mg/L			1	SM 2320B	

Alkalinity, Total

Lab Name: Eurofins Buffalo	Job No.: <u>480-197773-1</u>
SDG No.:	
Client Sample ID: MW-19R	Lab Sample ID: <u>480-197773-1</u>
Matrix: Water	Lab File ID: D9585.D
Analysis Method: 8260C	Date Collected: 05/10/2022 09:10
Sample wt/vol: 5(mL)	Date Analyzed: 05/17/2022 03:55
Soil Aliquot Vol:	Dilution Factor: 2
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) N pH:
% Moisture: % Solids:	Level: (low/med) Low
Analysis Batch No.: 626280	Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		2.0	1.6
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.0	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan e	ND		2.0	0.62
79-00-5	1,1,2-Trichloroethane	ND		2.0	0.46
75-34-3	1,1-Dichloroethane	ND		2.0	0.76
75-35-4	1,1-Dichloroethene	ND		2.0	0.58
120-82-1	1,2,4-Trichlorobenzene	ND		2.0	0.82
96-12-8	1,2-Dibromo-3-Chloropropane	ND		2.0	0.78
106-93-4	1,2-Dibromoethane	ND		2.0	1.5
95-50-1	1,2-Dichlorobenzene	ND		2.0	1.6
107-06-2	1,2-Dichloroethane	ND		2.0	0.42
78-87-5	1,2-Dichloropropane	ND		2.0	1.4
541-73-1	1,3-Dichlorobenzene	ND		2.0	1.6
106-46-7	1,4-Dichlorobenzene	ND		2.0	1.7
78-93-3	2-Butanone (MEK)	ND		20	2.6
591-78-6	2-Hexanone	ND		10	2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	4.2
67-64-1	Acetone	8.9	J	20	6.0
71-43-2	Benzene	ND		2.0	0.82
75-27-4	Bromodichloromethane	ND		2.0	0.78
75-25-2	Bromoform	ND		2.0	0.52
74-83-9	Bromomethane	ND		2.0	1.4
75-15-0	Carbon disulfide	ND		2.0	0.38
56-23-5	Carbon tetrachloride	ND		2.0	0.54
108-90-7	Chlorobenzene	ND		2.0	1.5
75-00-3	Chloroethane	ND		2.0	0.64
67-66-3	Chloroform	0.68	J	2.0	0.68
74-87-3	Chloromethane	ND		2.0	0.70
156-59-2	cis-1,2-Dichloroethene	ND		2.0	1.6
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.72
110-82-7	Cyclohexane	ND		2.0	0.36
124-48-1	Dibromochloromethane	ND		2.0	0.64
75-71-8	Dichlorodifluoromethane	ND		2.0	1.4

Lab Name: Eurofins Buffalo	Job No.: 480-197773-1
SDG No.:	
Client Sample ID: MW-19R	Lab Sample ID: <u>480-197773-1</u>
Matrix: Water	Lab File ID: D9585.D
Analysis Method: 8260C	Date Collected: 05/10/2022 09:10
Sample wt/vol: 5(mL)	Date Analyzed: 05/17/2022 03:55
Soil Aliquot Vol:	Dilution Factor: 2
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) N pH:
% Moisture: % Solids:	Level: (low/med) Low
Analysis Batch No.: 626280	Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	ND		2.0	1.5
98-82-8	Isopropylbenzene	ND		2.0	1.6
79-20-9	Methyl acetate	ND		5.0	2.6
1634-04-4	Methyl tert-butyl ether	ND		2.0	0.32
108-87-2	Methylcyclohexane	ND		2.0	0.32
75-09-2	Methylene Chloride	ND		2.0	0.88
100-42-5	Styrene	ND		2.0	1.5
127-18-4	Tetrachloroethene	ND		2.0	0.72
108-88-3	Toluene	ND		2.0	1.0
156-60-5	trans-1,2-Dichloroethene	ND		2.0	1.8
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.74
79-01-6	Trichloroethene	ND		2.0	0.92
75-69-4	Trichlorofluoromethane	ND		2.0	1.8
75-01-4	Vinyl chloride	ND		2.0	1.8
1330-20-7	Xylenes, Total	ND		4.0	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	103		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123
2037-26-5	Toluene-d8 (Surr)	102		80-120

Lab Name: Eurofins Buffalo	Job No.: <u>480-197773-1</u>
SDG No.:	
Client Sample ID: MW-16	Lab Sample ID: <u>480-197773-2</u>
Matrix: Water Lab File ID: 09586.D	
Analysis Method: 8260C	Date Collected: 05/10/2022 10:00
Sample wt/vol: 5(mL)	Date Analyzed: 05/17/2022 04:18
Soil Aliquot Vol:	Dilution Factor: 2
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) N pH:
% Moisture: % Solids:	Level: (low/med) Low
Analysis Batch No.: 626280	Units: ug/L

71-55-6         1,1,1-Trichloroethane         ND         2.0         1.6           79-34-5         1,1,2,2-Tetrachloroethane         ND         2.0         0.42           76-13-1         1,1,2-Trichloroethane         ND         2.0         0.62           9-00-5         1,1,2-Trichloroethane         ND         2.0         0.62           9-00-5         1,1,2-Trichloroethane         ND         2.0         0.62           9-00-5         1,1,2-Trichloroethane         ND         2.0         0.62           9-53-4         1,1-Dichloroethane         ND         2.0         0.76           75-35-4         1,2-Dibromo-3-Chloropropane         ND         2.0         0.82           96-12-8         1,2-Dibromo-3-Chloropropane         ND         2.0         0.78           106-93-4         1,2-Dichlorobenzene         ND         2.0         1.6           107-06-2         1,2-Dichlorobenzene         ND         2.0         1.4           59-50-1         1,2-Dichlorobenzene         ND         2.0         1.4           541-73-1         1,3-Dichlorobenzene         ND         2.0         1.7           78-93-3         2-Butanone (MEK)         ND         2.0         1.7 <tr< th=""><th>CAS NO.</th><th>COMPOUND NAME</th><th>RESULT</th><th>Q</th><th>RL</th><th>MDL</th></tr<>	CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1         1,1,2-Trichloro-1,2,2-trifluoroethan         ND         2.0         0.62           79-00-5         1,1,2-Trichloroethane         ND         2.0         0.46           75-34-3         1,1-Dichloroethane         ND         2.0         0.76           75-35-4         1,1-Dichloroethane         ND         2.0         0.76           75-35-4         1,2-Trichloroethane         ND         2.0         0.78           120-82-1         1,2,4-Trichlorobenzene         ND         2.0         0.78           96-12-8         1,2-Dibromo-3-Chloropropane         ND         2.0         0.78           106-93-4         1,2-Dichlorobenzene         ND         2.0         1.5           95-50-1         1,2-Dichlorobenzene         ND         2.0         1.4           51-73-1         1,2-Dichlorobenzene         ND         2.0         1.4           541-73-1         1,3-Dichlorobenzene         ND         2.0         1.7           78-93-3         2-Butanone (MEK)         ND         2.0         1.7           78-93-3         2-Butanone (MIBK)         ND         10         4.2           67-64-1         Acetone         ND         2.0         0.82	71-55-6	1,1,1-Trichloroethane	ND		2.0	1.6
e         ND         2.0           79-00-5         1,1,2-Trichloroethane         ND         2.0         0.46           75-34-3         1,1-Dichloroethane         ND         2.0         0.76           75-35-4         1,1-Dichloroethane         ND         2.0         0.82           96-12-8         1,2,4-Trichlorobenzene         ND         2.0         0.82           96-12-8         1,2-Dibromo-3-Chloropropane         ND         2.0         0.78           96-12-8         1,2-Dibromo-3-Chloropropane         ND         2.0         0.78           96-12-8         1,2-Dichlorobenzene         ND         2.0         0.78           95-50-1         1,2-Dichlorobenzene         ND         2.0         1.6           107-06-2         1,2-Dichlorobenzene         ND         2.0         1.4           78-87-5         1,2-Dichlorobenzene         ND         2.0         1.7           78-93-3         2-Butanone (MEK)         ND         2.0         1.7           78-93-3         2-Butanone (MIBK)         ND         10         2.5           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         2.0         0.78           75-27-4         Bromodichloromethane	79-34-5	1,1,2,2-Tetrachloroethane	ND		2.0	0.42
79-00-5       1,1,2-Trichloroethane       ND       2.0       0.46         75-34-3       1,1-Dichloroethane       ND       2.0       0.76         75-35-4       1,1-Dichloroethane       ND       2.0       0.58         120-82-1       1,2,4-Trichlorobenzene       ND       2.0       0.82         96-12-8       1,2-Dibromo-3-Chloropropane       ND       2.0       0.78         106-93-4       1,2-Dichlorobenzene       ND       2.0       0.78         95-50-1       1,2-Dichlorobenzene       ND       2.0       0.42         78-87-5       1,2-Dichlorobenzene       ND       2.0       0.42         78-87-5       1,2-Dichloropropane       ND       2.0       0.42         78-87-5       1,2-Dichlorobenzene       ND       2.0       0.42         78-87-5       1,2-Dichlorobenzene       ND       2.0       1.4         541-73-1       1,3-Dichlorobenzene       ND       2.0       1.7         78-93-3       2-Butanone (MEK)       ND       2.0       1.7         78-93-3       2-Hexanone       ND       2.0       0.82         70-6       2-Hexanone       ND       2.0       0.82         71-43-2	76-13-1		ND		2.0	0.62
75-35-4         1,1-Dichloroethene         ND         2.0         0.58           120-82-1         1,2,4-Trichlorobenzene         ND         2.0         0.82           96-12-8         1,2-Dibromo-3-Chloropropane         ND         2.0         0.78           106-93-4         1,2-Dibromo-3-Chloropropane         ND         2.0         0.78           106-93-4         1,2-Dichlorobenzene         ND         2.0         1.5           95-50-1         1,2-Dichlorobenzene         ND         2.0         0.42           78-87-5         1,2-Dichloropropane         ND         2.0         1.4           541-73-1         1,3-Dichlorobenzene         ND         2.0         1.4           591-78-6         2-Butanone (MEK)         ND         2.0         1.7           78-93-3         2-Butanone (MEK)         ND         2.0         2.6           591-78-6         2-Hexanone         ND         2.0         6.0           71-43-2         Benzene         ND         2.0         0.78           75-27-4         Bromodichloromethane         ND         2.0         0.78           75-27-4         Bromoderma         ND         2.0         0.54           75-80-3 <td< td=""><td>79-00-5</td><td>1,1,2-Trichloroethane</td><td>ND</td><td></td><td>2.0</td><td>0.46</td></td<>	79-00-5	1,1,2-Trichloroethane	ND		2.0	0.46
120-82-1         1,2,4-Trichlorobenzene         ND         2.0         0.82           96-12-8         1,2-Dibromo-3-Chloropropane         ND         2.0         0.78           106-93-4         1,2-Dibromethane         ND         2.0         1.5           95-50-1         1,2-Dichlorobenzene         ND         2.0         1.6           107-06-2         1,2-Dichlorobenzene         ND         2.0         0.42           78-87-5         1,2-Dichloropropane         ND         2.0         1.4           541-73-1         1,3-Dichlorobenzene         ND         2.0         1.4           541-73-1         1,3-Dichlorobenzene         ND         2.0         1.7           78-93-3         2-Butanone (MEK)         ND         2.0         2.6           591-78-6         2-Hexanone         ND         1.0         2.2           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         1.0         4.2           67-64-1         Acetone         ND         2.0         0.82           75-27-4         Bromodichloromethane         ND         2.0         0.78           75-25-2         Bromodichloromethane         ND         2.0         0.52           74-83-9	75-34-3	1,1-Dichloroethane	ND		2.0	0.76
96-12-8         1,2-Dibrono-3-Chloropropane         ND         2.0         0.78           106-93-4         1,2-Dibromoethane         ND         2.0         1.5           95-50-1         1,2-Dichlorobenzene         ND         2.0         1.6           107-06-2         1,2-Dichlorobenzene         ND         2.0         0.42           78-87-5         1,2-Dichloropropane         ND         2.0         1.4           541-73-1         1,3-Dichlorobenzene         ND         2.0         1.4           541-73-1         1,4-Dichlorobenzene         ND         2.0         1.6           106-46-7         1,4-Dichlorobenzene         ND         2.0         1.7           78-93-3         2-Butanone (MEK)         ND         20         2.6           591-78-6         2-Hexanone         ND         10         4.2           67-64-1         Acetone         ND         10         4.2           67-64-1         Acetone         ND         2.0         0.82           75-27-4         Bromodichloromethane         ND         2.0         0.78           75-25-2         Bromodethane         ND         2.0         0.52           74-83-9         Bromomethane	75-35-4	1,1-Dichloroethene	ND		2.0	0.58
ID6-93-4         I, 2-Dibromoethane         ND         2.0         1.5           95-50-1         1, 2-Dichlorobenzene         ND         2.0         1.6           107-06-2         1, 2-Dichlorobenzene         ND         2.0         0.42           78-87-5         1, 2-Dichloropropane         ND         2.0         1.4           541-73-1         1, 3-Dichlorobenzene         ND         2.0         1.4           541-73-1         1, 3-Dichlorobenzene         ND         2.0         1.7           78-93-3         2-Butanone (MEK)         ND         2.0         2.6           591-78-6         2-Hexanone         ND         10         2.5           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         10         4.2           67-64-1         Acetone         ND         2.0         0.60           71-43-2         Benzene         ND         2.0         0.78           75-27-4         Bromodichloromethane         ND         2.0         0.78           75-25-2         Bromomethane         ND         2.0         0.52           74-83-9         Bromomethane         ND         2.0         0.54           108-90-7         Chlorobenzene	120-82-1	1,2,4-Trichlorobenzene	ND		2.0	0.82
95-50-1         1,2-Dichlorobenzene         ND         2.0         1.6           107-06-2         1,2-Dichloropthane         ND         2.0         0.42           78-87-5         1,2-Dichloropthane         ND         2.0         1.4           541-73-1         1,3-Dichlorobenzene         ND         2.0         1.4           506-46-7         1,4-Dichlorobenzene         ND         2.0         1.7           78-93-3         2-Butanone (MEK)         ND         2.0         2.6           591-78-6         2-Hexanone         ND         10         2.5           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         10         4.2           67-64-1         Acetone         ND         2.0         0.60           71-43-2         Benzene         ND         2.0         0.82           75-27-4         Bromodichloromethane         ND         2.0         0.78           75-25-2         Bromoform         ND         2.0         0.52           74-83-9         Bromomethane         ND         2.0         0.38           56-23-5         Carbon disulfide         ND         2.0         0.54           108-90-7         Chlorobenzene         ND<		1,2-Dibromo-3-Chloropropane	ND		2.0	0.78
107-06-2         1,2-Dichlorothane         ND         2.0         0.44           78-87-5         1,2-Dichloropropane         ND         2.0         1.4           541-73-1         1,3-Dichlorobenzene         ND         2.0         1.4           541-73-1         1,3-Dichlorobenzene         ND         2.0         1.6           106-46-7         1,4-Dichlorobenzene         ND         2.0         1.7           78-93-3         2-Butanone (MEK)         ND         20         2.6           591-78-6         2-Hexanone         ND         10         4.2           67-64-1         Acetone         ND         10         4.2           67-64-1         Acetone         ND         2.0         0.82           75-27-4         Benzene         ND         2.0         0.52           74-83-9         Bromodichloromethane         ND         2.0         0.52           74-83-9         Bromomethane         ND         2.0         0.54           75-25-2         Bromoform         ND         2.0         0.54           75-15-0         Carbon tetrachloride         ND         2.0         0.54           108-90-7         Chlorobenzene         ND	106-93-4	1,2-Dibromoethane	ND		2.0	1.5
Number         Numer         Numer         Numer <td>95-50-1</td> <td>1,2-Dichlorobenzene</td> <td>ND</td> <td></td> <td>2.0</td> <td>1.6</td>	95-50-1	1,2-Dichlorobenzene	ND		2.0	1.6
541-73-1         1,3-Dichlorobenzene         ND         2.0         1.6           106-46-7         1,4-Dichlorobenzene         ND         2.0         1.7           78-93-3         2-Butanone (MEK)         ND         20         2.6           591-78-6         2-Hexanone         ND         10         2.5           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         10         4.2           67-64-1         Acetone         ND         2.0         0.60           71-43-2         Benzene         ND         2.0         0.82           75-27-4         Bromodichloromethane         ND         2.0         0.78           75-25-2         Bromoferm         ND         2.0         0.78           75-25-2         Bromomethane         ND         2.0         0.52           74-83-9         Bromomethane         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.64           67-66-3         Chloroform         ND         2.0<	107-06-2	1,2-Dichloroethane	ND		2.0	0.42
106-46-7         1,4-Dichlorobenzene         ND         2.0         1.7           78-93-3         2-Butanone (MEK)         ND         20         2.6           591-78-6         2-Hexanone         ND         10         2.5           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         10         4.2           67-64-1         Acetone         ND         20         6.0           71-43-2         Benzene         ND         2.0         0.82           75-27-4         Bromodichloromethane         ND         2.0         0.78           75-25-2         Bromoferm         ND         2.0         0.52           74-83-9         Bromomethane         ND         2.0         0.52           74-83-9         Bromomethane         ND         2.0         0.54           75-5-2         Bromomethane         ND         2.0         0.54           75-15-0         Carbon disulfide         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.64           67-66-3         Chlorobenzene         ND         2.0	78-87-5	1,2-Dichloropropane	ND		2.0	1.4
78-93-3         2-Butanone (MEK)         ND         20         2.6           591-78-6         2-Hexanone         ND         10         2.5           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         10         4.2           67-64-1         Acetone         ND         20         6.0           71-43-2         Benzene         ND         2.0         0.82           75-27-4         Bromodichloromethane         ND         2.0         0.78           75-25-2         Bromomethane         ND         2.0         0.52           74-83-9         Bromomethane         ND         2.0         0.38           56-23-5         Carbon disulfide         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.54           67-66-3         Chloroform         ND         2.0         0.66           74-87-3         Chloromethane         ND         2.0         0.66           10061-01-5         cis-1, 2-Dichloroethene         ND         2.0         0.70           10-82-7         Cyclohexane         ND         2	541-73-1	1,3-Dichlorobenzene	ND		2.0	1.6
591-78-6         2-Hexanone         ND         10         2.5           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         10         4.2           67-64-1         Acetone         ND         20         6.0           71-43-2         Benzene         ND         2.0         0.82           75-27-4         Bromodichloromethane         ND         2.0         0.78           75-25-2         Bromoform         ND         2.0         0.52           74-83-9         Bromomethane         ND         2.0         0.52           74-83-9         Bromomethane         ND         2.0         0.38           56-23-5         Carbon disulfide         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.64           67-66-3         Chloroform         ND         2.0         0.64           67-66-3         Chloromethane         ND         2.0         0.64           67-65-2         cis-1,2-Dichloroethene         ND         2.0         0.70           156-59-2         cis-1,2-Dichloropropene         ND         <	106-46-7	1,4-Dichlorobenzene	ND		2.0	1.7
108-10-1         4-Methyl-2-pentanone (MIBK)         ND         10         4.2           67-64-1         Acetone         ND         20         6.0           71-43-2         Benzene         ND         2.0         0.82           75-27-4         Bromodichloromethane         ND         2.0         0.78           75-25-2         Bromoform         ND         2.0         0.52           74-83-9         Bromomethane         ND         2.0         0.52           74-83-9         Bromomethane         ND         2.0         0.52           75-15-0         Carbon disulfide         ND         2.0         0.38           56-23-5         Carbon tetrachloride         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.64           67-66-3         Chloroform         ND         2.0         0.64           67-66-3         Chloroform         ND         2.0         0.64           67-65-2         cis-1,2-Dichloroethene         ND         2.0         0.70           156-59-2         cis-1,2-Dichloropropene         ND         2.0         0.72           10061-01-5         cis-1,3-Dichloropropene         <	78-93-3	2-Butanone (MEK)	ND		20	2.6
67-64-1         Acetone         ND         20         6.0           71-43-2         Benzene         ND         2.0         0.82           75-27-4         Bromodichloromethane         ND         2.0         0.78           75-27-4         Bromodichloromethane         ND         2.0         0.78           75-25-2         Bromoform         ND         2.0         0.52           74-83-9         Bromomethane         ND         2.0         0.53           75-15-0         Carbon disulfide         ND         2.0         0.38           56-23-5         Carbon tetrachloride         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.64           67-66-3         Chloroform         ND         2.0         0.64           67-66-3         Chloroform         ND         2.0         0.68           74-87-3         Chloromethane         ND         2.0         0.68           74-87-3         Chloromethane         ND         2.0         0.70           156-59-2         cis-1,2-Dichloroethene         ND         2.0         0.72           10061-01-5         cis-1,3-Dichloropropene         ND	591-78-6	2-Hexanone	ND		10	2.5
71-43-2BenzeneND2.00.8275-27-4BromodichloromethaneND2.00.7875-25-2BromoformND2.00.5274-83-9BromomethaneND2.01.475-15-0Carbon disulfideND2.00.3856-23-5Carbon tetrachlorideND2.00.54108-90-7ChlorobenzeneND2.00.6467-66-3ChloroformND2.00.6874-87-3ChloromethaneND2.00.6874-87-3ChloromethaneND2.00.70156-59-2cis-1,2-DichloroetheneND2.00.72110-82-7CyclohexaneND2.00.36124-48-1DibromochloromethaneND2.00.64	108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	4.2
75-27-4         Bromodichloromethane         ND         2.0         0.78           75-25-2         Bromoform         ND         2.0         0.52           74-83-9         Bromomethane         ND         2.0         1.4           75-15-0         Carbon disulfide         ND         2.0         0.38           56-23-5         Carbon tetrachloride         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.64           67-66-3         Chloroform         ND         2.0         0.68           74-87-3         Chloromethane         ND         2.0         0.70           156-59-2         cis-1,2-Dichloroethene         ND         2.0         0.70           156-59-2         cis-1,2-Dichloropropene         ND         2.0         0.72           10061-01-5         cis-1,3-Dichloropropene         ND         2.0         0.72           110-82-7         Cyclohexane         ND         2.0         0.36           124-48-1         Dibromochloromethane         ND         2.0         0.64	67-64-1	Acetone	ND		20	6.0
75-25-2BromoformND2.00.5274-83-9BromomethaneND2.01.475-15-0Carbon disulfideND2.00.3856-23-5Carbon tetrachlorideND2.00.54108-90-7ChlorobenzeneND2.00.6475-00-3ChloroethaneND2.00.6467-66-3ChloroformND2.00.6874-87-3ChloromethaneND2.00.70156-59-2cis-1,2-DichloroetheneND2.00.7210061-01-5cis-1,3-DichloropropeneND2.00.72110-82-7CyclohexaneND2.00.36124-48-1DibromochloromethaneND2.00.64	71-43-2	Benzene	ND		2.0	0.82
74-83-9         Bromomethane         ND         2.0         1.4           75-15-0         Carbon disulfide         ND         2.0         0.38           56-23-5         Carbon tetrachloride         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.64           75-00-3         Chloroethane         ND         2.0         0.64           67-66-3         Chloromethane         ND         2.0         0.68           74-87-3         Chloromethane         ND         2.0         0.70           156-59-2         cis-1,2-Dichloroethene         ND         2.0         0.70           1061-01-5         cis-1,3-Dichloropropene         ND         2.0         0.72           110-82-7         Cyclohexane         ND         2.0         0.36           124-48-1         Dibromochloromethane         ND         2.0         0.36	75-27-4	Bromodichloromethane	ND		2.0	0.78
75-15-0         Carbon disulfide         ND         2.0         0.38           56-23-5         Carbon tetrachloride         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.54           75-00-3         Chloroethane         ND         2.0         0.64           67-66-3         Chloromethane         ND         2.0         0.68           74-87-3         Chloromethane         ND         2.0         0.70           156-59-2         cis-1,2-Dichloroethene         ND         2.0         0.70           10061-01-5         cis-1,3-Dichloropropene         ND         2.0         0.72           110-82-7         Cyclohexane         ND         2.0         0.36           124-48-1         Dibromochloromethane         ND         2.0         0.36		Bromoform	ND		2.0	0.52
56-23-5         Carbon tetrachloride         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         1.5           75-00-3         Chloroethane         ND         2.0         0.64           67-66-3         Chloromethane         ND         2.0         0.68           74-87-3         Chloromethane         ND         2.0         0.70           156-59-2         cis-1,2-Dichloroethene         ND         2.0         0.70           1061-01-5         cis-1,3-Dichloropropene         ND         2.0         0.72           110-82-7         Cyclohexane         ND         2.0         0.36           124-48-1         Dibromochloromethane         ND         2.0         0.64	74-83-9	Bromomethane	ND		2.0	1.4
108-90-7         Chlorobenzene         ND         2.0         1.5           75-00-3         Chloroethane         ND         2.0         0.64           67-66-3         Chloroform         ND         2.0         0.68           74-87-3         Chloromethane         ND         2.0         0.70           156-59-2         cis-1,2-Dichloroethene         ND         2.0         0.70           10061-01-5         cis-1,3-Dichloropropene         ND         2.0         0.72           110-82-7         Cyclohexane         ND         2.0         0.36           124-48-1         Dibromochloromethane         ND         2.0         0.64	75-15-0	Carbon disulfide	ND		2.0	0.38
75-00-3         Chloroethane         ND         2.0         0.64           67-66-3         Chloroform         ND         2.0         0.68           74-87-3         Chloromethane         ND         2.0         0.70           156-59-2         cis-1,2-Dichloroethene         ND         2.0         1.6           10061-01-5         cis-1,3-Dichloropropene         ND         2.0         0.72           110-82-7         Cyclohexane         ND         2.0         0.36           124-48-1         Dibromochloromethane         ND         2.0         0.64		Carbon tetrachloride	ND		2.0	0.54
67-66-3         Chloroform         ND         2.0         0.68           74-87-3         Chloromethane         ND         2.0         0.70           156-59-2         cis-1,2-Dichloroethene         ND         2.0         1.6           10061-01-5         cis-1,3-Dichloropropene         ND         2.0         0.72           110-82-7         Cyclohexane         ND         2.0         0.36           124-48-1         Dibromochloromethane         ND         2.0         0.64	108-90-7	Chlorobenzene	ND		2.0	1.5
74-87-3         Chloromethane         ND         2.0         0.70           156-59-2         cis-1,2-Dichloroethene         ND         2.0         1.6           10061-01-5         cis-1,3-Dichloropropene         ND         2.0         0.72           110-82-7         Cyclohexane         ND         2.0         0.36           124-48-1         Dibromochloromethane         ND         2.0         0.64	75-00-3	Chloroethane	ND		2.0	0.64
156-59-2         cis-1,2-Dichloroethene         ND         2.0         1.6           10061-01-5         cis-1,3-Dichloropropene         ND         2.0         0.72           110-82-7         Cyclohexane         ND         2.0         0.36           124-48-1         Dibromochloromethane         ND         2.0         0.64	67-66-3	Chloroform	ND		2.0	0.68
10061-01-5         cis-1,3-Dichloropropene         ND         2.0         0.72           110-82-7         Cyclohexane         ND         2.0         0.36           124-48-1         Dibromochloromethane         ND         2.0         0.64	74-87-3	Chloromethane	ND		2.0	0.70
110-82-7         Cyclohexane         ND         2.0         0.36           124-48-1         Dibromochloromethane         ND         2.0         0.64	156-59-2	cis-1,2-Dichloroethene	ND		2.0	1.6
124-48-1         Dibromochloromethane         ND         2.0         0.64	10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.72
	110-82-7	Cyclohexane	ND		2.0	0.36
75-71-8         Dichlorodifluoromethane         ND         2.0         1.4	124-48-1	Dibromochloromethane	ND		2.0	0.64
	75-71-8	Dichlorodifluoromethane	ND		2.0	1.4

Lab Name: Eurofins Buffalo	Job No.: <u>480-197773-1</u>		
SDG No.:			
Client Sample ID: MW-16	Lab Sample ID: 480-197773-2		
Matrix: Water	Lab File ID: <u>D9586.D</u>		
Analysis Method: 8260C	Date Collected: 05/10/2022 10:00		
Sample wt/vol: 5(mL)	Date Analyzed: 05/17/2022 04:18		
Soil Aliquot Vol:	Dilution Factor: 2		
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)		
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) N pH:		
% Moisture: % Solids:	Level: (low/med) Low		
Analysis Batch No.: 626280	Units: ug/L		

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	ND		2.0	1.5
98-82-8	Isopropylbenzene	ND		2.0	1.6
79-20-9	Methyl acetate	ND		5.0	2.6
1634-04-4	Methyl tert-butyl ether	ND		2.0	0.32
108-87-2	Methylcyclohexane	ND		2.0	0.32
75-09-2	Methylene Chloride	ND		2.0	0.88
100-42-5	Styrene	ND		2.0	1.5
127-18-4	Tetrachloroethene	ND		2.0	0.72
108-88-3	Toluene	ND		2.0	1.0
156-60-5	trans-1,2-Dichloroethene	ND		2.0	1.8
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.74
79-01-6	Trichloroethene	ND		2.0	0.92
75-69-4	Trichlorofluoromethane	ND		2.0	1.8
75-01-4	Vinyl chloride	ND		2.0	1.8
1330-20-7	Xylenes, Total	ND		4.0	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	106		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123
2037-26-5	Toluene-d8 (Surr)	101		80-120

Lab Name: Eurofins Buffalo	Job No.: <u>480-197773-1</u>
SDG No.:	
Client Sample ID: MW-21	Lab Sample ID: <u>480-197773-3</u>
Matrix: Water	Lab File ID: D9587.D
Analysis Method: 8260C	Date Collected: 05/10/2022 11:15
Sample wt/vol: 5(mL)	Date Analyzed: 05/17/2022 04:40
Soil Aliquot Vol:	Dilution Factor: 2
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) N pH:
% Moisture: % Solids:	Level: (low/med) Low
Analysis Batch No.: 626280	Units: ug/L

71-55-6         1,1,1-Trichloroethane         ND         2.0         1.6           79-34-5         1,1,2,2-Tetrachloroethane         ND         2.0         0.42           76-13-1         1,1,2-Trichloro-1,2,2-trifluoroethan         ND         2.0         0.62           79-00-5         1,1,2-Trichloroethane         ND         2.0         0.62           79-00-5         1,1,2-Trichloroethane         ND         2.0         0.62           75-34-3         1,1-Dichloroethane         ND         2.0         0.76           15-34-4         1,2-Dichloroethane         ND         2.0         0.82           96-12-8         1,2-Dibromo-3-Chloropropane         ND         2.0         0.78           106-93-4         1,2-Dichloroethane         ND         2.0         1.6           07-06-2         1,2-Dichloroethane         ND         2.0         1.6           07-06-2         1,2-Dichloroethane         ND         2.0         1.4           59-50-1         1,2-Dichloroethane         ND         2.0         1.4           541-73-1         1,3-Dichlorobenzene         ND         2.0         1.7           78=93-3         2-Butanone (MEK)         ND         2.0         1.7      <	CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1         1,1,2-Trichloro-1,2,2-trifluoroethan         ND         2.0         0.62           79-00-5         1,1,2-Trichloroethane         ND         2.0         0.46           75-34-3         1,1-Dichloroethane         12         2.0         0.76           75-35-4         1,1-Dichloroethane         12         2.0         0.76           75-35-4         1,2,4-Trichlorobenzene         ND         2.0         0.82           96-12-8         1,2-Dibromo-3-Chloropropane         ND         2.0         0.78           106-93-4         1,2-Dibromothane         ND         2.0         0.78           107-06-2         1,2-Dichlorobenzene         ND         2.0         0.42           78-87-5         1,2-Dichlorobenzene         ND         2.0         0.42           78-87-5         1,2-Dichlorobenzene         ND         2.0         1.4           541-73-1         1,3-Dichlorobenzene         ND         2.0         1.4           541-73-1         1,3-Dichlorobenzene         ND         2.0         1.4           541-73-1         1,3-Dichlorobenzene         ND         2.0         1.6           106-46-7         1,4-Dichlorobenzene         ND         2.0         1.6	71-55-6	1,1,1-Trichloroethane	ND		2.0	1.6
e         ND         2.0           79-00-5         1,1,2-Trichloroethane         ND         2.0         0.46           75-34-3         1,1-Dichloroethane         12         2.0         0.76           75-35-4         1,1-Dichloroethane         1.3         J         2.0         0.78           120-82-1         1,2,4-Trichlorobenzene         ND         2.0         0.78           96-12-8         1,2-Dibromo-3-Chloropropane         ND         2.0         0.78           96-12-8         1,2-Dibromo-3-Chloropropane         ND         2.0         0.78           96-12-8         1,2-Dichlorobenzene         ND         2.0         0.78           95-50-1         1,2-Dichloropenzene         ND         2.0         1.6           107-06-2         1,2-Dichloropenzene         ND         2.0         1.4           541-73-1         1,3-Dichlorobenzene         ND         2.0         1.7           78-87-5         1,2-Dichlorobenzene         ND         2.0         1.7           78-93-3         2-Butanone (MEK)         ND         2.0         1.7           78-93-3         2-Butanone (MEK)         ND         10         4.2           67-64-1         Acetone	79-34-5	1,1,2,2-Tetrachloroethane	ND		2.0	0.42
75-34-3         1,1-Dichloroethane         12         2.0         0.76           75-35-4         1,1-Dichloroethane         1.3         J         2.0         0.82           120-82-1         1,2-Dibromo-3-Chloropropane         ND         2.0         0.82           96-12-8         1,2-Dibromo-3-Chloropropane         ND         2.0         0.78           106-93-4         1,2-Dibromoethane         ND         2.0         1.5           95-50-1         1,2-Dichloropenzene         ND         2.0         1.4           541-73-1         1,3-Dichloropenzene         ND         2.0         1.4           541-73-1         1,3-Dichlorobenzene         ND         2.0         1.4           541-73-1         1,3-Dichlorobenzene         ND         2.0         1.4           541-73-1         1,3-Dichlorobenzene         ND         2.0         1.4           541-78-6         2-Hexanone         ND         2.0         1.7           78-93-3         2-Butanone (MEK)         ND         10         4.2           67-64-1         Acetone         ND         2.0         0.82           75-27-4         Bromodichloromethane         ND         2.0         0.78	76-13-1		ND		2.0	0.62
75-35-4         1,1-Dichloroethene         1.3         J         2.0         0.58           120-82-1         1,2,4-Trichlorobenzene         ND         2.0         0.82           96-12-8         1,2-Dibromo-3-Chloropropane         ND         2.0         0.78           106-93-4         1,2-Dibromo-3-Chloropropane         ND         2.0         0.78           106-93-4         1,2-Dichlorobenzene         ND         2.0         0.78           107-06-2         1,2-Dichlorobenzene         ND         2.0         0.42           78-87-5         1,2-Dichlorobenzene         ND         2.0         0.42           78-87-5         1,4-Dichlorobenzene         ND         2.0         1.4           541-73-1         1,3-Dichlorobenzene         ND         2.0         1.7           78-93-3         2-Butanone (MEK)         ND         2.0         2.6           591-78-6         2-Hexanone         ND         10         4.2           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         10         4.2           67-64-1         Acetone         ND         2.0         0.78           75-27-4         Bromodichloromethane         ND         2.0         0.52      <	79-00-5	1,1,2-Trichloroethane	ND		2.0	0.46
120-82-1         1,2,4-Trichlorobenzene         ND         2.0         0.82           96-12-8         1,2-Dibromo-3-Chloropropane         ND         2.0         0.78           106-93-4         1,2-Dibromo-3-Chloropropane         ND         2.0         0.78           106-93-4         1,2-Dibromoethane         ND         2.0         1.5           95-50-1         1,2-Dichlorobenzene         ND         2.0         0.42           78-87-5         1,2-Dichlorobenzene         ND         2.0         1.4           541-73-1         1,3-Dichlorobenzene         ND         2.0         1.4           541-73-1         1,4-Dichlorobenzene         ND         2.0         1.4           541-73-1         1,4-Dichlorobenzene         ND         2.0         1.7           78-93-3         2-Butanone (MEK)         ND         2.0         2.6           591-78-6         2-Hexanone         ND         10         4.2           67-64-1         Acetone         ND         2.0         6.0           71-43-2         Benzene         ND         2.0         0.78           75-27-4         Bromodichloromethane         ND         2.0         0.78           75-52-2         Br	75-34-3		12		2.0	0.76
36-12-8         1,2-Dibromo-3-Chloropropane         ND         2.0         0.78           106-93-4         1,2-Dibromo-3-Chloropropane         ND         2.0         1.5           95-50-1         1,2-Dichlorobenzene         ND         2.0         1.6           107-06-2         1,2-Dichlorobenzene         ND         2.0         0.42           78-87-5         1,2-Dichloroppane         ND         2.0         1.4           541-73-1         1,3-Dichlorobenzene         ND         2.0         1.4           541-73-1         1,3-Dichlorobenzene         ND         2.0         1.4           541-73-1         1,3-Dichlorobenzene         ND         2.0         1.4           5108-10-1         4-Methyl         ND         2.0         1.7           78-93-3         2-Butanone (MEK)         ND         10         4.2           591-78-6         2-Hexanone         ND         10         4.2           67-64-1         Acetone         ND         10         4.2           67-64-1         Acetone         ND         2.0         0.78           75-25-2         Bromodichloromethane         ND         2.0         0.78           75-25-2         Bromomethane	75-35-4	1,1-Dichloroethene	1.3	J	2.0	0.58
Information         Information         Information           106-93-4         1,2-Dichlomoethane         ND         2.0         1.5           95-50-1         1,2-Dichlorobenzene         ND         2.0         0.42           107-06-2         1,2-Dichloropthane         ND         2.0         0.42           78-87-5         1,2-Dichloropthane         ND         2.0         0.42           541-73-1         1,3-Dichlorobenzene         ND         2.0         1.4           541-73-1         1,3-Dichlorobenzene         ND         2.0         1.7           78-93-3         2-Butanone (MEK)         ND         2.0         2.6           591-78-6         2-Hexanone         ND         10         2.5           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         10         4.2           67-64-1         Acetone         ND         2.0         0.78           75-27-4         Bromodichloromethane         ND         2.0         0.78           75-25-2         Bromodrom         ND         2.0         0.54           74-83-9         Bromomethane         ND         2.0         0.54           75-0-3         Chlorobenzene         ND         2.0 <td>120-82-1</td> <td>1,2,4-Trichlorobenzene</td> <td>ND</td> <td></td> <td>2.0</td> <td>0.82</td>	120-82-1	1,2,4-Trichlorobenzene	ND		2.0	0.82
BS-50-1         1,2-Dichlorobenzene         ND         2.0         1.6           107-06-2         1,2-Dichlorobenzene         ND         2.0         0.42           78-87-5         1,2-Dichloropropane         ND         2.0         1.4           541-73-1         1,3-Dichlorobenzene         ND         2.0         1.4           541-73-1         1,3-Dichlorobenzene         ND         2.0         1.7           78-93-3         2-Butanone (MEK)         ND         2.0         2.6           591-78-6         2-Hexanone         ND         1.0         2.5           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         1.0         4.2           67-64-1         Acetone         ND         2.0         0.60           71-43-2         Benzene         ND         2.0         0.78           75-27-4         Bromodichloromethane         ND         2.0         0.78           75-25-2         Bromodichloromethane         ND         2.0         0.38           56-23-5         Carbon disulfide         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.54           75-00-3         Chlorobenzene	96-12-8	1,2-Dibromo-3-Chloropropane	ND		2.0	0.78
107-06-2         1,2-Dichloroethane         ND         2.0         0.42           78-87-5         1,2-Dichloropropane         ND         2.0         1.4           541-73-1         1,3-Dichlorobenzene         ND         2.0         1.6           106-46-7         1,4-Dichlorobenzene         ND         2.0         1.7           78-93-3         2-Butanone (MEK)         ND         2.0         2.6           591-78-6         2-Hexanone         ND         1.0         2.5           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         1.0         4.2           67-64-1         Acetone         ND         2.0         0.60           71-43-2         Benzene         ND         2.0         0.78           75-25-2         Bromodichloromethane         ND         2.0         0.78           75-25-2         Bromoform         ND         2.0         0.52           74-83-9         Bromomethane         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.54           108-90-7         Chlorobenzene         ND <td>106-93-4</td> <td>1,2-Dibromoethane</td> <td>ND</td> <td></td> <td>2.0</td> <td>1.5</td>	106-93-4	1,2-Dibromoethane	ND		2.0	1.5
78-87-5         1,2-Dichloropropane         ND         2.0         1.4           541-73-1         1,3-Dichlorobenzene         ND         2.0         1.6           106-46-7         1,4-Dichlorobenzene         ND         2.0         1.7           78-93-3         2-Butanone (MEK)         ND         20         2.6           591-78-6         2-Hexanone         ND         10         2.5           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         10         4.2           67-64-1         Acetone         ND         20         6.0           71-43-2         Benzene         ND         2.0         0.82           75-27-4         Bromodichloromethane         ND         2.0         0.78           75-25-2         Bromoform         ND         2.0         0.52           74-83-9         Bromomethane         ND         2.0         0.54           56-23-5         Carbon disulfide         ND         2.0         0.38           56-23-5         Carbon tetrachloride         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.64           67-66-3         Chloroform         ND	95-50-1	1,2-Dichlorobenzene	ND		2.0	1.6
541-73-1         1,3-Dichlorobenzene         ND         2.0         1.6           106-46-7         1,4-Dichlorobenzene         ND         2.0         1.7           78-93-3         2-Butanone (MEK)         ND         20         2.6           591-78-6         2-Hexanone         ND         10         2.5           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         10         4.2           67-64-1         Acetone         ND         2.0         6.0           71-43-2         Benzene         ND         2.0         0.82           75-27-4         Bromodichloromethane         ND         2.0         0.78           75-25-2         Bromomethane         ND         2.0         0.78           75-25-3         Bromomethane         ND         2.0         0.52           74-83-9         Bromomethane         ND         2.0         0.54           75-15-0         Carbon disulfide         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.64           67-66-3         Chloroform         ND	107-06-2	1,2-Dichloroethane	ND		2.0	0.42
106-46-7         1,4-Dichlorobenzene         ND         2.0         1.7           78-93-3         2-Butanone (MEK)         ND         20         2.6           591-78-6         2-Hexanone         ND         10         2.5           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         10         4.2           67-64-1         Acetone         ND         20         6.0           71-43-2         Benzene         ND         2.0         0.82           75-27-4         Bromodichloromethane         ND         2.0         0.78           75-25-2         Bromoform         ND         2.0         0.52           74-83-9         Bromomethane         ND         2.0         0.52           74-83-9         Bromomethane         ND         2.0         0.54           75-15-0         Carbon disulfide         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.64           67-66-3         Chlorochane         ND         2.0	78-87-5	1,2-Dichloropropane	ND		2.0	1.4
78-93-3         2-Butanone (MEK)         ND         20         2.6           591-78-6         2-Hexanone         ND         10         2.5           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         10         4.2           67-64-1         Acetone         ND         20         6.0           71-43-2         Benzene         ND         2.0         0.82           75-27-4         Bromodichloromethane         ND         2.0         0.78           75-25-2         Bromoform         ND         2.0         0.52           74-83-9         Brommethane         ND         2.0         0.52           74-83-9         Brommethane         ND         2.0         0.54           75-25-2         Bromotod isulfide         ND         2.0         0.38           56-23-5         Carbon disulfide         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.54           108-90-7         Chlorothane         ND         2.0         0.64           67-66-3         Chloroform         ND         2.0         0.64           67-65-9-2         cis-1,2-Dichloroethene         60         2.0 </td <td>541-73-1</td> <td>1,3-Dichlorobenzene</td> <td>ND</td> <td></td> <td>2.0</td> <td>1.6</td>	541-73-1	1,3-Dichlorobenzene	ND		2.0	1.6
591-78-6         2-Hexanone         ND         10         2.5           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         10         4.2           67-64-1         Acetone         ND         20         6.0           71-43-2         Benzene         ND         2.0         0.82           75-27-4         Bromodichloromethane         ND         2.0         0.78           75-25-2         Bromoform         ND         2.0         0.52           74-83-9         Bromomethane         ND         2.0         0.52           74-83-9         Bromomethane         ND         2.0         0.52           74-83-9         Bromomethane         ND         2.0         0.54           108-90-7         Carbon disulfide         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.64           67-66-3         Chloroform         ND         2.0         0.64           67-66-3         Chloromethane         ND         2.0         0.70           156-59-2         cis-1,2-Dichloroethene         60         2.0         0.72           10061-01-5         cis-1,3-Dichloropropene         ND	106-46-7	1,4-Dichlorobenzene	ND		2.0	1.7
108-10-1         4-Methyl-2-pentanone (MIBK)         ND         10         4.2           67-64-1         Acetone         ND         20         6.0           71-43-2         Benzene         ND         2.0         0.82           75-27-4         Bromodichloromethane         ND         2.0         0.78           75-25-2         Bromoform         ND         2.0         0.52           74-83-9         Bromomethane         ND         2.0         0.52           74-83-9         Bromomethane         ND         2.0         0.38           56-23-5         Carbon disulfide         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.64           67-66-3         Chloroform         ND         2.0         0.64           67-66-3         Chloromethane         ND         2.0         0.70           156-59-2         cis-1,2-Dichloroethene         60         2.0         0.72           10061-01-5         cis-1,3-Dichloropropene         ND         2.0         0.72           110-82-7         Cyclohexane         ND	78-93-3	2-Butanone (MEK)	ND		20	2.6
67-64-1         Acetone         ND         20         6.0           71-43-2         Benzene         ND         2.0         0.82           75-27-4         Bromodichloromethane         ND         2.0         0.78           75-27-4         Bromodichloromethane         ND         2.0         0.78           75-27-2         Bromoform         ND         2.0         0.52           74-83-9         Bromomethane         ND         2.0         0.52           75-15-0         Carbon disulfide         ND         2.0         0.38           56-23-5         Carbon tetrachloride         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.54           75-00-3         Chloroform         ND         2.0         0.64           67-66-3         Chloroform         ND         2.0         0.68           74-87-3         Chloromethane         ND         2.0         0.70           156-59-2         cis-1, 2-Dichloroethene         60         2.0         0.72           10061-01-5         cis-1, 3-Dichloropropene         ND         2.0         0.72           110-82-7         Cyclohexane         ND	591-78-6	2-Hexanone	ND		10	2.5
71-43-2         Benzene         ND         2.0         0.82           75-27-4         Bromodichloromethane         ND         2.0         0.78           75-27-4         Bromodichloromethane         ND         2.0         0.78           75-25-2         Bromoform         ND         2.0         0.52           74-83-9         Bromomethane         ND         2.0         0.38           56-23-5         Carbon disulfide         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.64           67-66-3         Chloroethane         ND         2.0         0.68           74-87-3         Chloromethane         ND         2.0         0.70           156-59-2         cis-1,2-Dichloroethene         60         2.0         0.72           10061-01-5         cis-1,3-Dichloropropene         ND         2.0         0.72           110-82-7         Cyclohexane         ND	108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	4.2
75-27-4         Bromodichloromethane         ND         2.0         0.78           75-27-4         Bromodichloromethane         ND         2.0         0.52           74-83-9         Bromomethane         ND         2.0         0.52           74-83-9         Bromomethane         ND         2.0         0.52           74-83-9         Bromomethane         ND         2.0         0.38           56-23-5         Carbon disulfide         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.64           67-66-3         Chloroform         ND         2.0         0.64           74-87-3         Chloromethane         ND         2.0         0.70           156-59-2         cis-1,2-Dichloroethene         60         2.0         0.72           10061-01-5         cis-1,3-Dichloropropene         ND         2.0         0.72           110-82-7         Cyclohexane         ND         2.0         0.36           124-48-1         Dibromochloromethane	67-64-1	Acetone	ND		20	6.0
75-25-2BromoformND2.00.5274-83-9BromomethaneND2.01.475-15-0Carbon disulfideND2.00.3856-23-5Carbon tetrachlorideND2.00.54108-90-7ChlorobenzeneND2.00.6467-66-3ChloroethaneND2.00.6874-87-3ChloromethaneND2.00.6874-87-3ChloromethaneND2.00.70156-59-2cis-1,2-Dichloroethene602.00.7210061-01-5cis-1,3-DichloropropeneND2.00.36124-48-1DibromochloromethaneND2.00.36	71-43-2	Benzene	ND		2.0	0.82
74-83-9         Bromomethane         ND         2.0         1.4           75-15-0         Carbon disulfide         ND         2.0         0.38           56-23-5         Carbon tetrachloride         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.54           75-00-3         Chlorothane         ND         2.0         0.64           67-66-3         Chloroform         ND         2.0         0.68           74-87-3         Chloromethane         ND         2.0         0.70           156-59-2         cis-1,2-Dichloroethene         60         2.0         0.70           1061-01-5         cis-1,3-Dichloropropene         ND         2.0         0.72           110-82-7         Cyclohexane         ND         2.0         0.36           124-48-1         Dibromochloromethane         ND         2.0         0.64	75-27-4	Bromodichloromethane	ND		2.0	0.78
75-15-0         Carbon disulfide         ND         2.0         0.38           56-23-5         Carbon tetrachloride         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.54           75-00-3         Chloroethane         ND         2.0         0.64           67-66-3         Chloroform         ND         2.0         0.68           74-87-3         Chloromethane         ND         2.0         0.70           156-59-2         cis-1,2-Dichloroethene         60         2.0         0.72           10061-01-5         cis-1,3-Dichloropropene         ND         2.0         0.72           110-82-7         Cyclohexane         ND         2.0         0.36           124-48-1         Dibromochloromethane         ND         2.0         0.64	75-25-2	Bromoform	ND		2.0	0.52
56-23-5         Carbon tetrachloride         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         1.5           75-00-3         Chloroethane         ND         2.0         0.64           67-66-3         Chloromethane         ND         2.0         0.68           74-87-3         Chloromethane         ND         2.0         0.70           156-59-2         cis-1,2-Dichloroethene         60         2.0         0.70           1061-01-5         cis-1,3-Dichloropropene         ND         2.0         0.72           110-82-7         Cyclohexane         ND         2.0         0.36           124-48-1         Dibromochloromethane         ND         2.0         0.64	74-83-9	Bromomethane	ND		2.0	1.4
108-90-7         Chlorobenzene         ND         2.0         1.5           75-00-3         Chloroethane         ND         2.0         0.64           67-66-3         Chloroform         ND         2.0         0.68           74-87-3         Chloromethane         ND         2.0         0.70           156-59-2         cis-1,2-Dichloroethene         60         2.0         0.70           10061-01-5         cis-1,3-Dichloropropene         ND         2.0         0.72           110-82-7         Cyclohexane         ND         2.0         0.36           124-48-1         Dibromochloromethane         ND         2.0         0.64	75-15-0	Carbon disulfide	ND		2.0	0.38
75-00-3         Chloroethane         ND         2.0         0.64           67-66-3         Chloroform         ND         2.0         0.68           74-87-3         Chloromethane         ND         2.0         0.70           156-59-2         cis-1,2-Dichloroethene         60         2.0         0.72           10061-01-5         cis-1,3-Dichloropropene         ND         2.0         0.72           110-82-7         Cyclohexane         ND         2.0         0.36           124-48-1         Dibromochloromethane         ND         2.0         0.64	56-23-5	Carbon tetrachloride	ND		2.0	0.54
67-66-3         Chloroform         ND         2.0         0.68           74-87-3         Chloromethane         ND         2.0         0.70           156-59-2         cis-1,2-Dichloroethene         60         2.0         1.6           10061-01-5         cis-1,3-Dichloropropene         ND         2.0         0.72           110-82-7         Cyclohexane         ND         2.0         0.36           124-48-1         Dibromochloromethane         ND         2.0         0.64	108-90-7	Chlorobenzene	ND		2.0	1.5
74-87-3         Chloromethane         ND         2.0         0.70           156-59-2         cis-1,2-Dichloroethene         60         2.0         1.6           10061-01-5         cis-1,3-Dichloropropene         ND         2.0         0.72           110-82-7         Cyclohexane         ND         2.0         0.36           124-48-1         Dibromochloromethane         ND         2.0         0.64	75-00-3	Chloroethane	ND		2.0	0.64
156-59-2         cis-1,2-Dichloroethene         60         2.0         1.6           10061-01-5         cis-1,3-Dichloropropene         ND         2.0         0.72           110-82-7         Cyclohexane         ND         2.0         0.36           124-48-1         Dibromochloromethane         ND         2.0         0.64	67-66-3	Chloroform	ND		2.0	0.68
10061-01-5         cis-1,3-Dichloropropene         ND         2.0         0.72           110-82-7         Cyclohexane         ND         2.0         0.36           124-48-1         Dibromochloromethane         ND         2.0         0.64	74-87-3	Chloromethane	ND		2.0	0.70
110-82-7         Cyclohexane         ND         2.0         0.36           124-48-1         Dibromochloromethane         ND         2.0         0.64	156-59-2	cis-1,2-Dichloroethene	60		2.0	1.6
124-48-1         Dibromochloromethane         ND         2.0         0.64	10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.72
	110-82-7	Cyclohexane	ND		2.0	0.36
75-71-8         Dichlorodifluoromethane         ND         2.0         1.4	124-48-1	Dibromochloromethane	ND		2.0	0.64
	75-71-8	Dichlorodifluoromethane	ND		2.0	1.4

Lab Name: Eurofins Buffalo	Job No.: <u>480-197773-1</u>				
SDG No.:					
Client Sample ID: MW-21	Lab Sample ID: <u>480-197773-3</u>				
Matrix: Water	Lab File ID: D9587.D				
Analysis Method: 8260C	Date Collected: 05/10/2022 11:15				
Sample wt/vol: 5(mL)	Date Analyzed: 05/17/2022 04:40				
Soil Aliquot Vol:	Dilution Factor: 2				
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)				
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) N pH:				
% Moisture: % Solids:	Level: (low/med) Low				
Analysis Batch No.: 626280	Units: ug/L				

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	ND		2.0	1.5
98-82-8	Isopropylbenzene	ND		2.0	1.6
79-20-9	Methyl acetate	ND		5.0	2.6
1634-04-4	Methyl tert-butyl ether	ND		2.0	0.32
108-87-2	Methylcyclohexane	ND		2.0	0.32
75-09-2	Methylene Chloride	ND		2.0	0.88
100-42-5	Styrene	ND		2.0	1.5
127-18-4	Tetrachloroethene	ND		2.0	0.72
108-88-3	Toluene	ND		2.0	1.0
156-60-5	trans-1,2-Dichloroethene	ND		2.0	1.8
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.74
79-01-6	Trichloroethene	12		2.0	0.92
75-69-4	Trichlorofluoromethane	ND		2.0	1.8
75-01-4	Vinyl chloride	ND		2.0	1.8
1330-20-7	Xylenes, Total	ND		4.0	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123
2037-26-5	Toluene-d8 (Surr)	101		80-120

Lab Name: Eurofins Buffalo	Job No.: 480-197773-1	
SDG No.:		
Client Sample ID: FD-051022	Lab Sample ID: <u>480-197773-4</u>	
Matrix: Water	Lab File ID: D9588.D	
Analysis Method:         8260C         Date Collected:         05/10/2022         00:00		
Sample wt/vol: 5(mL)	Date Analyzed: 05/17/2022 05:01	
Soil Aliquot Vol:	Dilution Factor: 2	
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)	
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) N pH:	
% Moisture: % Solids:	Level: (low/med) Low	
Analysis Batch No.: 626280	Units: ug/L	

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		2.0	1.6
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.0	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan e	ND		2.0	0.62
79-00-5	1,1,2-Trichloroethane	ND		2.0	0.46
75-34-3	1,1-Dichloroethane	13		2.0	0.76
75-35-4	1,1-Dichloroethene	1.3	J	2.0	0.58
120-82-1	1,2,4-Trichlorobenzene	ND		2.0	0.82
96-12-8	1,2-Dibromo-3-Chloropropane	ND		2.0	0.78
106-93-4	1,2-Dibromoethane	ND		2.0	1.5
95-50-1	1,2-Dichlorobenzene	ND		2.0	1.6
107-06-2	1,2-Dichloroethane	ND		2.0	0.42
78-87-5	1,2-Dichloropropane	ND		2.0	1.4
541-73-1	1,3-Dichlorobenzene	ND		2.0	1.6
106-46-7	1,4-Dichlorobenzene	ND		2.0	1.7
78-93-3	2-Butanone (MEK)	ND		20	2.6
591-78-6	2-Hexanone	ND		10	2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	4.2
67-64-1	Acetone	ND		20	6.0
71-43-2	Benzene	ND		2.0	0.82
75-27-4	Bromodichloromethane	ND		2.0	0.78
75-25-2	Bromoform	ND		2.0	0.52
74-83-9	Bromomethane	ND		2.0	1.4
75-15-0	Carbon disulfide	ND		2.0	0.38
56-23-5	Carbon tetrachloride	ND		2.0	0.54
108-90-7	Chlorobenzene	ND		2.0	1.5
75-00-3	Chloroethane	ND		2.0	0.64
67-66-3	Chloroform	ND		2.0	0.68
74-87-3	Chloromethane	ND		2.0	0.70
156-59-2	cis-1,2-Dichloroethene	65		2.0	1.6
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.72
110-82-7	Cyclohexane	ND		2.0	0.36
124-48-1	Dibromochloromethane	ND		2.0	0.64
75-71-8	Dichlorodifluoromethane	ND		2.0	1.4

Lab Name: Eurofins Buffalo	Job No.: 480-197773-1
SDG No.:	
Client Sample ID: FD-051022	Lab Sample ID: <u>480-197773-4</u>
Matrix: Water	Lab File ID: D9588.D
Analysis Method: 8260C	Date Collected: 05/10/2022 00:00
Sample wt/vol: 5(mL)	Date Analyzed: 05/17/2022 05:01
Soil Aliquot Vol:	Dilution Factor: 2
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) N pH:
% Moisture: % Solids:	Level: (low/med) Low
Analysis Batch No.: 626280	Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	ND		2.0	1.5
98-82-8	Isopropylbenzene	ND		2.0	1.6
79-20-9	Methyl acetate	ND		5.0	2.6
1634-04-4	Methyl tert-butyl ether	ND		2.0	0.32
108-87-2	Methylcyclohexane	ND		2.0	0.32
75-09-2	Methylene Chloride	ND		2.0	0.88
100-42-5	Styrene	ND		2.0	1.5
127-18-4	Tetrachloroethene	ND		2.0	0.72
108-88-3	Toluene	ND		2.0	1.0
156-60-5	trans-1,2-Dichloroethene	ND		2.0	1.8
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.74
79-01-6	Trichloroethene	13		2.0	0.92
75-69-4	Trichlorofluoromethane	ND		2.0	1.8
75-01-4	Vinyl chloride	ND		2.0	1.8
1330-20-7	Xylenes, Total	ND		4.0	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123
2037-26-5	Toluene-d8 (Surr)	102		80-120

Lab Name: Eurofins Buffalo	Job No.: 480-197773-1			
SDG No.:				
Client Sample ID: MW-17	Lab Sample ID: <u>480-197773-5</u>			
Matrix: Water	Lab File ID: D9589.D			
Analysis Method: 8260C	Date Collected: 05/10/2022 12:20			
Sample wt/vol: 5(mL)	Date Analyzed: 05/17/2022 05:23			
Soil Aliquot Vol:	Dilution Factor: 2			
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)			
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) N pH:			
% Moisture: % Solids:	Level: (low/med) Low			
Analysis Batch No.: 626280	Units: ug/L			

71-55-6         1,1,1-Trichloroethane         ND         2.0         1.6           79-34-5         1,1,2,2-Tetrachloroethane         ND         2.0         0.42           76-13-1         1,1,2-Trichloroethane         ND         2.0         0.62           9-00-5         1,1,2-Trichloroethane         ND         2.0         0.62           9-00-5         1,1,2-Trichloroethane         ND         2.0         0.62           9-00-5         1,1,2-Trichloroethane         ND         2.0         0.62           9-53-4         1,1-Dichloroethane         ND         2.0         0.76           75-35-4         1,2-Dibromo-3-Chloropropane         ND         2.0         0.82           96-12-8         1,2-Dibromo-3-Chloropropane         ND         2.0         0.78           106-93-4         1,2-Dichlorobenzene         ND         2.0         1.6           107-06-2         1,2-Dichlorobenzene         ND         2.0         1.4           59-50-1         1,2-Dichlorobenzene         ND         2.0         1.4           541-73-1         1,3-Dichlorobenzene         ND         2.0         1.7           78-93-3         2-Butanone (MEK)         ND         2.0         1.7 <tr< th=""><th>CAS NO.</th><th>COMPOUND NAME</th><th>RESULT</th><th>Q</th><th>RL</th><th>MDL</th></tr<>	CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1         1,1,2-Trichloro-1,2,2-trifluoroethan         ND         2.0         0.62           79-00-5         1,1,2-Trichloroethane         ND         2.0         0.46           75-34-3         1,1-Dichloroethane         ND         2.0         0.76           75-35-4         1,1-Dichloroethane         ND         2.0         0.76           75-35-4         1,2-Trichloroethane         ND         2.0         0.78           120-82-1         1,2,4-Trichlorobenzene         ND         2.0         0.78           96-12-8         1,2-Dibromo-3-Chloropropane         ND         2.0         0.78           106-93-4         1,2-Dichlorobenzene         ND         2.0         1.5           95-50-1         1,2-Dichlorobenzene         ND         2.0         1.4           51-73-1         1,2-Dichlorobenzene         ND         2.0         1.4           541-73-1         1,3-Dichlorobenzene         ND         2.0         1.7           78-93-3         2-Butanone (MEK)         ND         2.0         1.7           78-93-3         2-Butanone (MIBK)         ND         10         4.2           67-64-1         Acetone         ND         2.0         0.82	71-55-6	1,1,1-Trichloroethane	ND		2.0	1.6
e         ND         2.0           79-00-5         1,1,2-Trichloroethane         ND         2.0         0.46           75-34-3         1,1-Dichloroethane         ND         2.0         0.76           75-35-4         1,1-Dichloroethane         ND         2.0         0.82           96-12-8         1,2,4-Trichlorobenzene         ND         2.0         0.82           96-12-8         1,2-Dibromo-3-Chloropropane         ND         2.0         0.78           96-12-8         1,2-Dibromo-3-Chloropropane         ND         2.0         0.78           96-12-8         1,2-Dichlorobenzene         ND         2.0         0.78           95-50-1         1,2-Dichlorobenzene         ND         2.0         1.6           107-06-2         1,2-Dichloropane         ND         2.0         1.4           78-87-5         1,2-Dichlorobenzene         ND         2.0         1.6           106-64-7         1,4-Dichlorobenzene         ND         2.0         1.7           78-93-3         2-Butanone (MEK)         ND         10         2.5           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         10         2.5           108-10-1         4-Methyl-2-pentanone	79-34-5	1,1,2,2-Tetrachloroethane	ND		2.0	0.42
79-00-5       1,1,2-Trichloroethane       ND       2.0       0.46         75-34-3       1,1-Dichloroethane       ND       2.0       0.76         75-35-4       1,1-Dichloroethane       ND       2.0       0.58         120-82-1       1,2,4-Trichlorobenzene       ND       2.0       0.82         96-12-8       1,2-Dibromo-3-Chloropropane       ND       2.0       0.78         106-93-4       1,2-Dichlorobenzene       ND       2.0       0.78         95-50-1       1,2-Dichlorobenzene       ND       2.0       0.42         78-87-5       1,2-Dichlorobenzene       ND       2.0       0.42         78-87-5       1,2-Dichloropropane       ND       2.0       0.42         78-87-5       1,2-Dichlorobenzene       ND       2.0       0.42         78-87-5       1,2-Dichlorobenzene       ND       2.0       1.4         541-73-1       1,3-Dichlorobenzene       ND       2.0       1.7         78-93-3       2-Butanone (MEK)       ND       2.0       1.7         78-93-3       2-Hexanone       ND       2.0       0.82         70-6       2-Hexanone       ND       2.0       0.82         71-43-2	76-13-1		ND		2.0	0.62
75-35-4         1,1-Dichloroethene         ND         2.0         0.58           120-82-1         1,2,4-Trichlorobenzene         ND         2.0         0.82           96-12-8         1,2-Dibromo-3-Chloropropane         ND         2.0         0.78           106-93-4         1,2-Dibromo-3-Chloropropane         ND         2.0         0.78           106-93-4         1,2-Dichlorobenzene         ND         2.0         1.5           95-50-1         1,2-Dichlorobenzene         ND         2.0         0.42           78-87-5         1,2-Dichloropropane         ND         2.0         1.4           541-73-1         1,3-Dichlorobenzene         ND         2.0         1.4           591-78-6         2-Butanone (MEK)         ND         2.0         1.7           78-93-3         2-Butanone (MEK)         ND         2.0         2.6           591-78-6         2-Hexanone         ND         2.0         6.0           71-43-2         Benzene         ND         2.0         0.78           75-27-4         Bromodichloromethane         ND         2.0         0.78           75-27-4         Bromoderma         ND         2.0         0.54           75-80-3 <td< td=""><td>79-00-5</td><td>1,1,2-Trichloroethane</td><td>ND</td><td></td><td>2.0</td><td>0.46</td></td<>	79-00-5	1,1,2-Trichloroethane	ND		2.0	0.46
120-82-1         1,2,4-Trichlorobenzene         ND         2.0         0.82           96-12-8         1,2-Dibromo-3-Chloropropane         ND         2.0         0.78           106-93-4         1,2-Dibromethane         ND         2.0         1.5           95-50-1         1,2-Dichlorobenzene         ND         2.0         1.6           107-06-2         1,2-Dichlorobenzene         ND         2.0         0.42           78-87-5         1,2-Dichloropropane         ND         2.0         1.4           541-73-1         1,3-Dichlorobenzene         ND         2.0         1.4           541-73-1         1,3-Dichlorobenzene         ND         2.0         1.7           78-93-3         2-Butanone (MEK)         ND         2.0         2.6           591-78-6         2-Hexanone         ND         1.0         2.2           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         1.0         4.2           67-64-1         Acetone         ND         2.0         0.82           75-25-2         Bromodichloromethane         ND         2.0         0.78           75-25-2         Bromodichloromethane         ND         2.0         0.52           74-83-9	75-34-3	1,1-Dichloroethane	ND		2.0	0.76
96-12-8         1,2-Dibrono-3-Chloropropane         ND         2.0         0.78           106-93-4         1,2-Dibromoethane         ND         2.0         1.5           95-50-1         1,2-Dichlorobenzene         ND         2.0         1.6           107-06-2         1,2-Dichlorobenzene         ND         2.0         0.42           78-87-5         1,2-Dichloropropane         ND         2.0         1.4           541-73-1         1,3-Dichlorobenzene         ND         2.0         1.4           541-73-1         1,4-Dichlorobenzene         ND         2.0         1.6           106-46-7         1,4-Dichlorobenzene         ND         2.0         1.7           78-93-3         2-Butanone (MEK)         ND         20         2.6           591-78-6         2-Hexanone         ND         10         4.2           67-64-1         Acetone         ND         10         4.2           67-64-1         Acetone         ND         2.0         0.82           75-27-4         Bromodichloromethane         ND         2.0         0.78           75-25-2         Bromodethane         ND         2.0         0.52           74-83-9         Bromomethane	75-35-4	1,1-Dichloroethene	ND		2.0	0.58
ID6-93-4         I, 2-Dibromoethane         ND         2.0         1.5           95-50-1         1, 2-Dichlorobenzene         ND         2.0         1.6           107-06-2         1, 2-Dichlorobenzene         ND         2.0         0.42           78-87-5         1, 2-Dichloropropane         ND         2.0         1.4           541-73-1         1, 3-Dichlorobenzene         ND         2.0         1.4           541-73-1         1, 3-Dichlorobenzene         ND         2.0         1.7           78-93-3         2-Butanone (MEK)         ND         2.0         2.6           591-78-6         2-Hexanone         ND         10         2.5           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         10         4.2           67-64-1         Acetone         ND         2.0         0.60           71-43-2         Benzene         ND         2.0         0.78           75-27-4         Bromodichloromethane         ND         2.0         0.78           75-25-2         Bromomethane         ND         2.0         0.52           74-83-9         Bromomethane         ND         2.0         0.54           108-90-7         Chlorobenzene	120-82-1	1,2,4-Trichlorobenzene	ND		2.0	0.82
95-50-1         1,2-Dichlorobenzene         ND         2.0         1.6           107-06-2         1,2-Dichloropthane         ND         2.0         0.42           78-87-5         1,2-Dichloropthane         ND         2.0         1.4           541-73-1         1,3-Dichlorobenzene         ND         2.0         1.4           506-46-7         1,4-Dichlorobenzene         ND         2.0         1.7           78-93-3         2-Butanone (MEK)         ND         2.0         2.6           591-78-6         2-Hexanone         ND         10         2.5           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         10         4.2           67-64-1         Acetone         ND         2.0         0.60           71-43-2         Benzene         ND         2.0         0.82           75-27-4         Bromodichloromethane         ND         2.0         0.78           75-25-2         Bromoform         ND         2.0         0.52           74-83-9         Bromomethane         ND         2.0         0.38           56-23-5         Carbon disulfide         ND         2.0         0.54           108-90-7         Chlorobenzene         ND<		1,2-Dibromo-3-Chloropropane	ND		2.0	0.78
107-06-2         1,2-Dichlorothane         ND         2.0         0.44           78-87-5         1,2-Dichloropropane         ND         2.0         1.4           541-73-1         1,3-Dichlorobenzene         ND         2.0         1.4           541-73-1         1,3-Dichlorobenzene         ND         2.0         1.6           106-46-7         1,4-Dichlorobenzene         ND         2.0         1.7           78-93-3         2-Butanone (MEK)         ND         20         2.6           591-78-6         2-Hexanone         ND         10         4.2           67-64-1         Acetone         ND         10         4.2           67-64-1         Acetone         ND         2.0         0.82           75-27-4         Benzene         ND         2.0         0.52           74-83-9         Bromodichloromethane         ND         2.0         0.52           74-83-9         Bromomethane         ND         2.0         0.54           75-25-2         Bromoform         ND         2.0         0.54           75-15-0         Carbon disulfide         ND         2.0         0.54           75-0-3         Chlorobenzene         ND         2.0 <td>106-93-4</td> <td>1,2-Dibromoethane</td> <td>ND</td> <td></td> <td>2.0</td> <td>1.5</td>	106-93-4	1,2-Dibromoethane	ND		2.0	1.5
Number         Numer         Numer         Numer <td>95-50-1</td> <td>1,2-Dichlorobenzene</td> <td>ND</td> <td></td> <td>2.0</td> <td>1.6</td>	95-50-1	1,2-Dichlorobenzene	ND		2.0	1.6
541-73-1         1,3-Dichlorobenzene         ND         2.0         1.6           106-46-7         1,4-Dichlorobenzene         ND         2.0         1.7           78-93-3         2-Butanone (MEK)         ND         20         2.6           591-78-6         2-Hexanone         ND         10         2.5           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         10         4.2           67-64-1         Acetone         ND         2.0         0.60           71-43-2         Benzene         ND         2.0         0.82           75-27-4         Bromodichloromethane         ND         2.0         0.78           75-25-2         Bromoferm         ND         2.0         0.78           75-25-2         Bromomethane         ND         2.0         0.52           74-83-9         Bromomethane         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.64           67-66-3         Chloroform         ND         2.0<	107-06-2	1,2-Dichloroethane	ND		2.0	0.42
106-46-7         1,4-Dichlorobenzene         ND         2.0         1.7           78-93-3         2-Butanone (MEK)         ND         20         2.6           591-78-6         2-Hexanone         ND         10         2.5           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         10         4.2           67-64-1         Acetone         ND         20         6.0           71-43-2         Benzene         ND         2.0         0.82           75-27-4         Bromodichloromethane         ND         2.0         0.78           75-25-2         Bromoferm         ND         2.0         0.52           74-83-9         Bromomethane         ND         2.0         0.52           74-83-9         Bromomethane         ND         2.0         0.54           75-5-2         Bromomethane         ND         2.0         0.54           75-15-0         Carbon disulfide         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.64           67-66-3         Chlorobenzene         ND         2.0	78-87-5	1,2-Dichloropropane	ND		2.0	1.4
78-93-3         2-Butanone (MEK)         ND         20         2.6           591-78-6         2-Hexanone         ND         10         2.5           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         10         4.2           67-64-1         Acetone         ND         20         6.0           71-43-2         Benzene         ND         2.0         0.82           75-27-4         Bromodichloromethane         ND         2.0         0.78           75-25-2         Bromomethane         ND         2.0         0.52           74-83-9         Bromomethane         ND         2.0         0.38           56-23-5         Carbon disulfide         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.54           67-66-3         Chloroform         ND         2.0         0.66           74-87-3         Chloromethane         ND         2.0         0.66           10061-01-5         cis-1, 2-Dichloroethene         ND         2.0         0.70           10-82-7         Cyclohexane         ND         2	541-73-1	1,3-Dichlorobenzene	ND		2.0	1.6
591-78-6         2-Hexanone         ND         10         2.5           108-10-1         4-Methyl-2-pentanone (MIBK)         ND         10         4.2           67-64-1         Acetone         ND         20         6.0           71-43-2         Benzene         ND         2.0         0.82           75-27-4         Bromodichloromethane         ND         2.0         0.78           75-25-2         Bromoform         ND         2.0         0.52           74-83-9         Bromomethane         ND         2.0         0.52           74-83-9         Bromomethane         ND         2.0         0.38           56-23-5         Carbon disulfide         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.64           67-66-3         Chloroform         ND         2.0         0.64           67-66-3         Chloromethane         ND         2.0         0.64           67-65-2         cis-1,2-Dichloroethene         ND         2.0         0.70           156-59-2         cis-1,2-Dichloropropene         ND         <	106-46-7	1,4-Dichlorobenzene	ND		2.0	1.7
108-10-1         4-Methyl-2-pentanone (MIBK)         ND         10         4.2           67-64-1         Acetone         ND         20         6.0           71-43-2         Benzene         ND         2.0         0.82           75-27-4         Bromodichloromethane         ND         2.0         0.78           75-25-2         Bromoform         ND         2.0         0.52           74-83-9         Bromomethane         ND         2.0         0.52           74-83-9         Bromomethane         ND         2.0         0.52           75-15-0         Carbon disulfide         ND         2.0         0.38           56-23-5         Carbon tetrachloride         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.64           67-66-3         Chloroform         ND         2.0         0.64           67-66-3         Chloroform         ND         2.0         0.64           67-65-2         cis-1,2-Dichloroethene         ND         2.0         0.70           156-59-2         cis-1,2-Dichloropropene         ND         2.0         0.72           10061-01-5         cis-1,3-Dichloropropene         <	78-93-3	2-Butanone (MEK)	ND		20	2.6
67-64-1         Acetone         ND         20         6.0           71-43-2         Benzene         ND         2.0         0.82           75-27-4         Bromodichloromethane         ND         2.0         0.78           75-27-4         Bromodichloromethane         ND         2.0         0.78           75-25-2         Bromoform         ND         2.0         0.52           74-83-9         Bromomethane         ND         2.0         0.53           75-15-0         Carbon disulfide         ND         2.0         0.38           56-23-5         Carbon tetrachloride         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.64           67-66-3         Chloroform         ND         2.0         0.64           67-66-3         Chloroform         ND         2.0         0.68           74-87-3         Chloromethane         ND         2.0         0.68           74-87-3         Chloromethane         ND         2.0         0.70           156-59-2         cis-1,2-Dichloroethene         ND         2.0         0.72           10061-01-5         cis-1,3-Dichloropropene         ND	591-78-6	2-Hexanone	ND		10	2.5
71-43-2BenzeneND2.00.8275-27-4BromodichloromethaneND2.00.7875-25-2BromoformND2.00.5274-83-9BromomethaneND2.01.475-15-0Carbon disulfideND2.00.3856-23-5Carbon tetrachlorideND2.00.54108-90-7ChlorobenzeneND2.00.6467-66-3ChloroformND2.00.6874-87-3ChloromethaneND2.00.6874-87-3ChloromethaneND2.00.70156-59-2cis-1,2-DichloroetheneND2.00.72110-82-7CyclohexaneND2.00.36124-48-1DibromochloromethaneND2.00.64	108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	4.2
75-27-4         Bromodichloromethane         ND         2.0         0.78           75-25-2         Bromoform         ND         2.0         0.52           74-83-9         Bromomethane         ND         2.0         1.4           75-15-0         Carbon disulfide         ND         2.0         0.38           56-23-5         Carbon tetrachloride         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.64           67-66-3         Chloroform         ND         2.0         0.68           74-87-3         Chloromethane         ND         2.0         0.70           156-59-2         cis-1,2-Dichloroethene         ND         2.0         0.70           156-59-2         cis-1,2-Dichloropropene         ND         2.0         0.72           10061-01-5         cis-1,3-Dichloropropene         ND         2.0         0.72           110-82-7         Cyclohexane         ND         2.0         0.36           124-48-1         Dibromochloromethane         ND         2.0         0.64	67-64-1	Acetone	ND		20	6.0
75-25-2BromoformND2.00.5274-83-9BromomethaneND2.01.475-15-0Carbon disulfideND2.00.3856-23-5Carbon tetrachlorideND2.00.54108-90-7ChlorobenzeneND2.00.6475-00-3ChloroethaneND2.00.6467-66-3ChloroformND2.00.6874-87-3ChloromethaneND2.00.70156-59-2cis-1,2-DichloroetheneND2.00.7210061-01-5cis-1,3-DichloropropeneND2.00.72110-82-7CyclohexaneND2.00.36124-48-1DibromochloromethaneND2.00.64	71-43-2	Benzene	ND		2.0	0.82
74-83-9         Bromomethane         ND         2.0         1.4           75-15-0         Carbon disulfide         ND         2.0         0.38           56-23-5         Carbon tetrachloride         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.64           75-00-3         Chloroethane         ND         2.0         0.64           67-66-3         Chloroform         ND         2.0         0.68           74-87-3         Chloromethane         ND         2.0         0.70           156-59-2         cis-1,2-Dichloroethene         ND         2.0         0.70           1061-01-5         cis-1,3-Dichloropropene         ND         2.0         0.72           110-82-7         Cyclohexane         ND         2.0         0.36           124-48-1         Dibromochloromethane         ND         2.0         0.36	75-27-4	Bromodichloromethane	ND		2.0	0.78
75-15-0         Carbon disulfide         ND         2.0         0.38           56-23-5         Carbon tetrachloride         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         0.54           75-00-3         Chloroethane         ND         2.0         0.64           67-66-3         Chloromethane         ND         2.0         0.68           74-87-3         Chloromethane         ND         2.0         0.70           156-59-2         cis-1,2-Dichloroethene         ND         2.0         0.70           10061-01-5         cis-1,3-Dichloropropene         ND         2.0         0.72           110-82-7         Cyclohexane         ND         2.0         0.36           124-48-1         Dibromochloromethane         ND         2.0         0.36		Bromoform	ND		2.0	0.52
56-23-5         Carbon tetrachloride         ND         2.0         0.54           108-90-7         Chlorobenzene         ND         2.0         1.5           75-00-3         Chloroethane         ND         2.0         0.64           67-66-3         Chloromethane         ND         2.0         0.68           74-87-3         Chloromethane         ND         2.0         0.70           156-59-2         cis-1,2-Dichloroethene         ND         2.0         0.70           1061-01-5         cis-1,3-Dichloropropene         ND         2.0         0.72           110-82-7         Cyclohexane         ND         2.0         0.36           124-48-1         Dibromochloromethane         ND         2.0         0.64	74-83-9	Bromomethane	ND		2.0	1.4
108-90-7         Chlorobenzene         ND         2.0         1.5           75-00-3         Chloroethane         ND         2.0         0.64           67-66-3         Chloroform         ND         2.0         0.68           74-87-3         Chloromethane         ND         2.0         0.70           156-59-2         cis-1,2-Dichloroethene         ND         2.0         0.70           10061-01-5         cis-1,3-Dichloropropene         ND         2.0         0.72           110-82-7         Cyclohexane         ND         2.0         0.36           124-48-1         Dibromochloromethane         ND         2.0         0.64	75-15-0	Carbon disulfide	ND		2.0	0.38
75-00-3         Chloroethane         ND         2.0         0.64           67-66-3         Chloroform         ND         2.0         0.68           74-87-3         Chloromethane         ND         2.0         0.70           156-59-2         cis-1,2-Dichloroethene         ND         2.0         1.6           10061-01-5         cis-1,3-Dichloropropene         ND         2.0         0.72           110-82-7         Cyclohexane         ND         2.0         0.36           124-48-1         Dibromochloromethane         ND         2.0         0.64		Carbon tetrachloride	ND		2.0	0.54
67-66-3         Chloroform         ND         2.0         0.68           74-87-3         Chloromethane         ND         2.0         0.70           156-59-2         cis-1,2-Dichloroethene         ND         2.0         1.6           10061-01-5         cis-1,3-Dichloropropene         ND         2.0         0.72           110-82-7         Cyclohexane         ND         2.0         0.36           124-48-1         Dibromochloromethane         ND         2.0         0.64	108-90-7	Chlorobenzene	ND		2.0	1.5
74-87-3         Chloromethane         ND         2.0         0.70           156-59-2         cis-1,2-Dichloroethene         ND         2.0         1.6           10061-01-5         cis-1,3-Dichloropropene         ND         2.0         0.72           110-82-7         Cyclohexane         ND         2.0         0.36           124-48-1         Dibromochloromethane         ND         2.0         0.64	75-00-3	Chloroethane	ND		2.0	0.64
156-59-2         cis-1,2-Dichloroethene         ND         2.0         1.6           10061-01-5         cis-1,3-Dichloropropene         ND         2.0         0.72           110-82-7         Cyclohexane         ND         2.0         0.36           124-48-1         Dibromochloromethane         ND         2.0         0.64	67-66-3	Chloroform	ND		2.0	0.68
10061-01-5         cis-1,3-Dichloropropene         ND         2.0         0.72           110-82-7         Cyclohexane         ND         2.0         0.36           124-48-1         Dibromochloromethane         ND         2.0         0.64	74-87-3	Chloromethane	ND		2.0	0.70
110-82-7         Cyclohexane         ND         2.0         0.36           124-48-1         Dibromochloromethane         ND         2.0         0.64	156-59-2	cis-1,2-Dichloroethene	ND		2.0	1.6
124-48-1         Dibromochloromethane         ND         2.0         0.64	10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.72
	110-82-7	Cyclohexane	ND		2.0	0.36
75-71-8         Dichlorodifluoromethane         ND         2.0         1.4	124-48-1	Dibromochloromethane	ND		2.0	0.64
	75-71-8	Dichlorodifluoromethane	ND		2.0	1.4

Lab Name: Eurofins Buffalo	Job No.: 480-197773-1	
SDG No.:		
Client Sample ID: MW-17	Lab Sample ID: <u>480-197773-5</u>	
Matrix: Water	Lab File ID: D9589.D	
Analysis Method: 8260C	Date Collected: 05/10/2022 12:20	
Sample wt/vol: 5(mL)	Date Analyzed: 05/17/2022 05:23	
Soil Aliquot Vol:	Dilution Factor: 2	
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)	
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) N pH:	
% Moisture: % Solids:	Level: (low/med) Low	
Analysis Batch No.: 626280	Units: ug/L	

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	ND		2.0	1.5
98-82-8	Isopropylbenzene	ND		2.0	1.6
79-20-9	Methyl acetate	ND		5.0	2.6
1634-04-4	Methyl tert-butyl ether	ND		2.0	0.32
108-87-2	Methylcyclohexane	ND		2.0	0.32
75-09-2	Methylene Chloride	ND		2.0	0.88
100-42-5	Styrene	ND		2.0	1.5
127-18-4	Tetrachloroethene	ND		2.0	0.72
108-88-3	Toluene	ND		2.0	1.0
156-60-5	trans-1,2-Dichloroethene	ND		2.0	1.8
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.74
79-01-6	Trichloroethene	ND		2.0	0.92
75-69-4	Trichlorofluoromethane	ND		2.0	1.8
75-01-4	Vinyl chloride	ND		2.0	1.8
1330-20-7	Xylenes, Total	ND		4.0	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	104		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123
2037-26-5	Toluene-d8 (Surr)	102		80-120

Lab Name: Eurofins Buffalo	Job No.: 480-197773-1
SDG No.:	
Client Sample ID: TB-051022	Lab Sample ID: <u>480-197773-6</u>
Matrix: Water	Lab File ID: T9714.D
Analysis Method: 8260C	Date Collected: 05/10/2022 00:00
Sample wt/vol: 5(mL)	Date Analyzed: 05/19/2022 14:20
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) N pH:
% Moisture: % Solids:	Level: (low/med) Low
Analysis Batch No.: 626760	Units: ug/L

71-55-6         1,1,1-Trichloroeth           79-34-5         1,1,2,2-Tetrachlor	pethane	ND ND	1.0	
79-34-5 1,1,2,2-Tetrachlor		ND	T.0	0.82
	2,2-trifluoroethan	ND	1.0	0.21
76-13-1 1,1,2-Trichloro-1, e		ND	1.0	0.31
79-00-5 1,1,2-Trichloroeth	ane	ND	1.0	0.23
75-34-3 1,1-Dichloroethane		ND	1.0	0.38
75-35-4 1,1-Dichloroethene		ND	1.0	0.29
120-82-1 1,2,4-Trichloroben	zene	ND	1.0	0.41
96-12-8 1,2-Dibromo-3-Chlo	ropropane	ND	1.0	0.39
106-93-4 1,2-Dibromoethane		ND	1.0	0.73
95-50-1 1,2-Dichlorobenzen	e	ND	1.0	0.79
107-06-2 1,2-Dichloroethane		ND	1.0	0.21
78-87-5 1,2-Dichloropropan	e	ND	1.0	0.72
541-73-1 1,3-Dichlorobenzen	e	ND	1.0	0.78
106-46-7 1,4-Dichlorobenzen	e	ND	1.0	0.84
78-93-3 2-Butanone (MEK)		ND	10	1.3
591-78-6 2-Hexanone		ND	5.0	1.2
108-10-1 4-Methyl-2-pentano	ne (MIBK)	ND	5.0	2.1
67-64-1 Acetone		ND	10	3.0
71-43-2 Benzene		ND	1.0	0.41
75-27-4 Bromodichlorometha	ne	ND	1.0	0.39
75-25-2 Bromoform		ND	1.0	0.26
74-83-9 Bromomethane		ND	1.0	0.69
75-15-0 Carbon disulfide		ND	1.0	0.19
56-23-5 Carbon tetrachlori	de	ND	1.0	0.27
108-90-7 Chlorobenzene		ND	1.0	0.75
75-00-3 Chloroethane		ND	1.0	0.32
67-66-3 Chloroform		ND	1.0	0.34
74-87-3 Chloromethane		ND	1.0	0.35
156-59-2 cis-1,2-Dichloroet	hene	ND	1.0	0.81
10061-01-5 cis-1,3-Dichloropr	opene	ND	1.0	0.36
110-82-7 Cyclohexane		ND	1.0	0.18
124-48-1 Dibromochlorometha	ne	ND	1.0	0.32
75-71-8 Dichlorodifluorome	thane	ND	1.0	0.68

Lab Name: Eurofins Buffalo	Job No.: 480-197773-1
SDG No.:	
Client Sample ID: TB-051022	Lab Sample ID: <u>480-197773-6</u>
Matrix: Water	Lab File ID: T9714.D
Analysis Method: 8260C	Date Collected: 05/10/2022 00:00
Sample wt/vol: 5(mL)	Date Analyzed: 05/19/2022 14:20
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)
Purge Volume: 5.0(mL)	Heated Purge: (Y/N) N pH:
% Moisture: % Solids:	Level: (low/med) Low
Analysis Batch No.: 626760	Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		77-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
1868-53-7	Dibromofluoromethane (Surr)	115		75-123
2037-26-5	Toluene-d8 (Surr)	98		80-120

Lab Name: Eurofins Buffalo	Job No.: 480-197773-1					
SDG No.:						
Client Sample ID: MW-21	Lab Sample ID: <u>480-197773-3</u>					
Matrix: <u>Water</u>	Lab File ID: pe3_070_268.D					
Analysis Method: RSK-175	Date Collected: 05/10/2022 11:15					
Sample wt/vol: 17(mL)	Date Analyzed: 05/18/2022 10:53					
Soil Aliquot Vol:	Dilution Factor: 1					
Soil Extract Vol.:	GC Column: Alumina ID: 0.53(mm)					
Purge Volume:	Heated Purge: (Y/N) N pH: 2.0					
% Moisture: % Solids:	Level: (low/med) Low					
Analysis Batch No.: 626528	Units: ug/L					

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	280		4.0	1.0

Lab Name: Eurofins Buffalo	Job No.: 480-197773-1
SDG No.:	
Client Sample ID: FD-051022	Lab Sample ID: <u>480-197773-4</u>
Matrix: Water	Lab File ID: pe3_070_269.D
Analysis Method: RSK-175	Date Collected: 05/10/2022 00:00
Sample wt/vol: 17(mL)	Date Analyzed: 05/18/2022 11:12
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: Alumina ID: 0.53(mm)
Purge Volume:	Heated Purge: (Y/N) N pH: 2.0
% Moisture: % Solids:	Level: (low/med) Low
Analysis Batch No.: 626528	Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	240		4.0	1.0

Client Sample	ID: MW-19R			Lab Sample	ID: 480	-197773-	1			
Lab Name: Eu	rofins Buffalo			Job No.: 480-197773-1						
SDG ID.:										
Matrix: Wate	r			Date Sampled: 05/10/2022 09:10						
Reporting Bas	Date Recei	ved: 05/	10/2022	15:30						
CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method	
7429-90-5	Aluminum	1.4	0.20	0.060	mg/L			1	6010C	
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C	
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C	
7440-39-3	Barium	0.11	0.0020	0.00070	mg/L			1	6010C	
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C	
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C	
7440-70-2	Calcium	111	0.50	0.10	mg/L			1	6010C	
7440-47-3	Chromium	0.0015	0.0040	0.0010	mg/L	J		1	6010C	
7440-48-4	Cobalt	0.0019	0.0040	0.00063	mg/L	J		1	6010C	
7440-50-8	Copper	ND	0.010	0.010	mg/L	J		1	6010C	
7439-89-6	Iron	1.5	0.050	0.019	mg/L	U		1	6010C	
7439-92-1	Lead	ND	0.010	0.0030	mg/L			1	6010C	
7439-95-4	Magnesium	19.4	0.20	0.043	mg/L			1	6010C	
7439-96-5	Manganese	5.5	0.0030	0.00040	mg/L			1	6010C	
7440-02-0	Nickel	0.0032	0.010	0.0013	mg/L	J		1	6010C	
7440-09-7	Potassium	7.2	0.50	0.10	mg/L			1	6010C	
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C	
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C	
7440-23-5	Sodium	157	1.0	0.32	ma/L			1	6010C	

0.020

0.0050

0.010

0.00020

ND

ND

0.0025

0.0061

0.010 mg/L

J

J

0.0015 mg/L

mg/L

mg/L

0.0015

0.000043

7440-28-0

7440-62-2

7440-66-6

7439-97-6

Thallium

Vanadium

Mercury

Zinc

6010C

6010C

6010C

7470A

1

1

1

1

Client Sample	e ID: MW-16			Lab Sample	ID: 480	-197773-	-2		
Lab Name: Eu	urofins Buffalo Job No.: 480-197773-1								
SDG ID.:									
Matrix: Wate		Date Sampled: 05/10/2022 10:00							
Reporting Bas		Date Recei	ved: 05/	10/2022	15:30				
CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	ND	0.20	0.060	mg/L			1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	0.022	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	1.3	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	230	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040	0.0010	mg/L			1	6010C
7440-48-4	Cobalt	0.14	0.0040	0.00063	mg/L			1	6010C
7440-50-8	Copper	ND	0.020	0.020	mg/L	U		1	6010C
7439-89-6	Iron	30.1	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	0.0054	0.010	0.0030	mg/L	J		1	6010C
7439-95-4	Magnesium	40.6	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	19.6	0.0030	0.00040	mg/L			1	6010C

0.010

0.50

0.025

0.0060

0.020

0.0050

0.010

0.00020

1.0

0.0013

0.0017

0.32

0.010

0.0015

0.000043

mg/L

mg/L

mg/L

mg/L

mg/L

mg/L

J

0.10 mg/L

0.0087 mg/L

0.0015 mg/L

0.015

7.8

ND

ND

406

ND

ND

0.0015

0.040

7440-02-0

7440-09-7

7782-49-2

7440-22-4

7440-23-5

7440-28-0

7440-62-2

7440-66-6

7439-97-6

Nickel

Potassium

Selenium

Silver

Sodium

Thallium

Vanadium

Mercury

Zinc

1

1

1

1

1

1

1

6010C

6010C

6010C

6010C

6010C

6010C

7470A

1 6010C

1 6010C

Client Sample	e ID: MW-21			Lab Sample	ID: 480	-197773-	3		
Lab Name: Eu	rofins Buffalo			Job No.:					
SDG ID.:									
Matrix: Wate	r			Date Sampl	ed: 05/1	0/2022	11 <b>:</b> 15		
Reporting Bas	sis: WET			Date Recei	ved: 05/	10/2022	15:30		
CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7429-90-5	Aluminum	0.12	0.20	0.060	mg/L	J		1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	1.3	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	0.00061	0.0020	0.00050	mg/L	J		1	6010C
7440-70-2	Calcium	402	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	0.0013	0.0040	0.0010	mg/L	J		1	6010C
7440-48-4	Cobalt	0.0035	0.0040	0.00063	mg/L	J		1	6010C
7440-50-8	Copper	ND	0.010	0.010	mg/L	U		1	6010C

0.050

0.010

0.20

0.0030

0.010

0.50

0.025

0.0060

0.020

0.0050

0.010

0.00020

2.0

0.019

0.0030

0.043

0.00040

0.0013

0.0087

0.65

0.010

0.0015

0.0015

0.00043

0.0017

mg/L

0.10 mg/L

J

J

0.22

67.8

4.8

5.7

ND

ND

ND

ND

ND

0.0040

1200

0.0033

ND

7439-89-6

7439-92-1

7439-95-4

7439-96-5

7440-02-0

7440-09-7

7782-49-2

7440-22-4

7440-23-5

7440-28-0

7440-62-2

7440-66-6

7439-97-6

Iron

Lead

Magnesium

Manganese

Potassium

Selenium

Silver

Sodium

Thallium

Vanadium

Mercury

Zinc

Nickel

1

1

1

1

1

1

2

1

1

1

1

6010C

7470A

1 6010C

1 6010C

# 1A-IN INORGANIC ANALYSIS DATA SHEET METALS - DISSOLVED

Client Sample					ID: 480-	197773-	3			
Lab Name: Eurofins Buffalo				Job No.: 480-197773-1						
SDG ID.:										
Matrix: Water				Date Sampl	ed: 05/10	/2022 1	L1:15			
Reporting Bas:	LS: WET			Date Recei	ved: 05/1	0/2022	15:30			
CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method	
7439-89-6	Iron, Dissolved	0.16	0.050	0.019	mg/L			1	6010C	

FD OF MW-21

Client Sample	e ID: FD-051022			Lab Sample	ID: 480	-197773-	- 4		
Lab Name: E	urofins Buffalo			Job No.:	480-19777	3-1			
SDG ID.:									
Matrix: Wate	r			Date Sampl	ed: 05/1	0/2022	00:00		
Reporting Bas	sis: WET			Date Recei	ved: 05/	10/2022	15:30		
CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7429-90-5	Aluminum	0.072	0.20	0.060	mg/L	J		1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	1.3	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	0.00057	0.0020	0.00050	mg/L	J		1	6010C
7440-70-2	Calcium	395	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	0.0013	0.0040	0.0010	mg/L	J		1	6010C
7440-48-4	Cobalt	0.0034	0.0040	0.00063	mg/L	J		1	6010C
7440-50-8	Copper	ND	0.010	0.010	mg/L	U		1	6010C
7439-89-6	Iron	0.21	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	ND	0.010	0.0030	mg/L			1	6010C
7439-95-4	Magnesium	66.7	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	4.7	0.0030	0.00040	mg/L			1	6010C
7440-02-0	Nickel	0.0031	0.010	0.0013	mg/L	J		1	6010C
7440-09-7	Potassium	5.6	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7440-23-5	Sodium	1190	2.0	0.65	mg/L			2	6010C
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050	0.0015	ma/T	1		1	6010C

0.010

0.00020

0.0015

0.000043

mg/L

mg/L

J

0.0029

ND

7440-66-6

7439-97-6

Zinc

Mercury

1

1

6010C

7470A

# 1A-IN INORGANIC ANALYSIS DATA SHEET METALS - DISSOLVED

FD OF MW-21

Client Sample	ID: FD-051022			Lab Sample	ID: 480-	197773-	4		
Lab Name: Eu:	rofins Buffalo			Job No.:	480-197773	-1			
SDG ID.:									
Matrix: Water				Date Sampl	ed: 05/10	/2022 (	00:00		
Reporting Basi	US: WET			Date Recei	ved: 05/1	0/2022	15:30		
CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7439-89-6	Iron, Dissolved	0.16	0.050	0.019	mg/L			1	6010C

Client Sample	e ID: MW-17			Lab Sample	ID: 480	-197773-	-5		
Lab Name: E	urofins Buffalo			Job No.:	480-19777	3-1			
SDG ID.:									
Matrix: Wate	er			Date Sampl	ed: 05/1	0/2022	12:20		
Reporting Bas	sis: WET			Date Recei	ved: 05/	10/2022	15:30		
CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.085	0.20	0.060	mg/L	J		1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	0.0093	0.015	0.0056	mg/L	J		1	6010C
7440-39-3	Barium	0.20	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	210	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040	0.0010	mg/L			1	6010C
7440-48-4	Cobalt	0.0012	0.0040	0.00063	mg/L	J		1	6010C
7440-50-8	Copper	ND	0.010	0.010	mg/L	U		1	6010C
7439-89-6	Iron	20.8	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	0.0042	0.010	0.0030	mg/L	J		1	6010C
7439-95-4	Magnesium	38.2	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	2.5	0.0030	0.00040	mg/L			1	6010C
7440-02-0	Nickel	ND	0.010	0.0013	mg/L			1	6010C
7440-09-7	Potassium	9.3	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L		1	1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C

1.0

0.020

0.0050

0.010

0.00020

0.32 mg/L

0.010 mg/L

0.0015 mg/L

mg/L

mg/L

0.0015

0.000043

J

J

122

ND

ND

0.0017

0.0031

7440-23-5

7440-28-0

7440-62-2

7440-66-6

7439-97-6

Sodium

Thallium

Vanadium

Mercury

Zinc

1

1

1

1

1

6010C

6010C

6010C

7470A

6010C

Client Sample	ID: MW-21			Lab Sample	e ID: 480-	-197773-	3		
Lab Name: Eu	rofins Buffalo			Job No.:	480-197773	-1			
SDG ID.:									
Matrix: Water	r			Date Sampl	.ed: 05/10	/2022	11:15		
Reporting Bas	is: WET			Date Recei	.ved: 05/1	L0/2022	15 <b>:</b> 30		
[		1					1	1	
CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
16887-00-6	Chloride	2900	10.0	5.6	mg/L			20	300.0
14808-79-8	Sulfate	77.3	40.0	7.0	mg/L			20	300.0
14797-55-8	Nitrate	ND	0.050	0.020	mg/L			1	Nitrate by calc
	Alkalinity, Total	188	5.0	0.79	mg/L			1	SM 2320B

FD OF MW-21

Client Sample	ID: FD-051022			Lab Sample	ID: 480-	-197773-	4		
Lab Name: Eu	rofins Buffalo			Job No.:	480-197773	-1			
SDG ID.:									
Matrix: Water	2			Date Sampl	ed: 05/10	/2022	00:00		
Reporting Bas:	is: WET			Date Recei	.ved: 05/1	0/2022	15 <b>:</b> 30		
CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
16887-00-6	Chloride	2830	10.0	5.6	mg/L			20	300.0
14808-79-8	Sulfate	76.4	40.0	7.0	mg/L			20	300.0
14797-55-8	Nitrate	ND	0.050	0.020	mg/L			1	Nitrate by calc
	Alkalinity, Total	186	5.0	0.79	mg/L			1	SM 2320B

# ATTACHMENT B

# SUPPORT DOCUMENTATION

Buffalo	d Drive
Eurofins	10 Hazelwoo

Chain of Custody Recor

🔆 eurofins Enviro

Client Information	Sampler L / /	Lab PM:	Carrier Tracking No(s):	COC No:
	K	Schove, John R		480-173200-37435.1
orient contact. Ms. Ann Marie Kropovitch	531-33	E-Mail: John.Schove@et.eurofinsus.com	State of Origin:	Page: Doco 1 of 0
Company: AECOM	PWSID:	veie	Requirected	rage I OI Z Job #:
Address: One John James Audubon Parkway Suite 210	Due Date Requested:			Preservation Codes:
City. Amherst	TAT Requested (days):			A - HCL M - Hexane B - NaOH N - None
State, Zip: NY 14228	Compliance Brained Aven 4 Me			
Phone: 746 000 4407/T_1	3	21		
r 10-323-1131(151) Email	60636810 Mo #	(o		
ann.marie.kropovitch@aecom.com	Ann. Marie. Kropovitch@aecom.com			
Project Name: Former Bernzoma <b>tic S</b> ite - Medina, NY	Project #: 48015562			
Site:	SSOW#:	Cs SD (Ye	480-197248 Chain of	in of Custody
Sample Identification	Sample Date Time G=crab) Brance	RITTING C - TCL VOC Sanoid: (Www.netr.		D
	Preserva			Special Instructions/Note:
20 - 1_0465	4/27/22 C940 C-			
Par - 1 - GW	5	10000		
PDI-2-0205	2 Soli 1	Solid		
7DT-6-GW	4/27/22 1108 6-	2 A DE DE DE DE DE DE DE DE DE DE DE DE DE		
PDI-7-0203	4/27/22 1209 6-	Solid		
アンエーとし	12 1220 6-	2000 C		
PDI-7 6W	1315 G	Stid Stid		
PDI-3 0203	4/27/22 1345 G-	Solid		8
5	4/2H22 1409 6-	Solid		
PDF - 3.GW	1430 G-	Solid 3		
PDI-6-0304	427 1042 C	Solid 4 1		
Nossible hazard identification	Poison B Unknown Radiological	Sample Disposal ( A fee may be assessed if samples	e assessed if samples are retaine	are retained longer than 1 month)
eliverable Requested: I, II, III, IV, Other (specify)	contact	Special Instructions/QC Requirements.		
Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:	
remindusien by Tank Club	0/27/ 22H2	us	Date/Time:	Сотрапу
		pany Received by:	Date/Time:	Company
	Date/Time: Company	pany Received by	Date The 122	(Company)
Custody Seals Intact: Custody Seal No.		Cooler Temperature(s) C and Other Remarks	Remarks	10101

Eurofins Buffalo									1	D <sub>at</sub>	
10 Hazelwood Drive Amherst, NY 14228-2298 Phone: 716-691-2600 Fax: 716-691-7991	Chain o	Chain of Custody Record	Recor	q						🔆 eurofins	S Environment Testin America
Client Information	A.	D Fairbacks Cat	Lab PM: Schouro Joho D	4			Carrier Tracking No(s)	ing No(s):		COC No:	
Client Contact Ms. Ann Marie Kropovitch	221	L'AN WARP SCHOU	ail:	۲ I			State of Origin:	Ë		480-173200-37435.2 Page:	37435.2
Company: AECOM		]	Jonn. Schove@et. eurofinsus. com	Øet.eur	ofinsus.cc	E				Page 2 of 2 Job #:	
Address One John James Audubon Parkway Suite 210	Due Date Requested:			F		Anaiysis Kequested	dnested			Preservation Codes:	Codes:
	TAT Requested (days):	STAUDARP								A - HCL B - NaOH	
State, Zip: NY, 14228	Compliance Project: $\Delta$ Yes $\Delta$	∆ No								C - Zn Acetate D - Nitric Acid	
Phone: 716-923-1137(Tel)										E - NaHSO4 F - MeOH G - Amchlor	
Email: ann.marie.kropovitch@aecom.com	wo #: Ann.Marie.Kropovitch@aeco	m.com								H - Ascorbic Aci 1 - Ice	<ul> <li>T - TSP Dodecahydrate</li> <li>U - Acetone</li> </ul>
Project Name: Former Bernzomatic Site - Medina, NY	Project #: 48015562								siners	J - U water K - EDTA L - EDA	v - MCAA W - pH 4-5 Z - other (specify)
Site	SSOW#:		eV) de	\$(	8;				nnoo 1	Other:	
Samula Idantification		Type Matrix Type (W-water. S=solid. (C=comp, O=waseloid.	riorn MS/M	10C, 7471B	0C, 7470A				o 19dmuV is		
	Sample Date Time	G=grab) BT=Tissue, A=Air) Precentiation Code:	be Lev	.09	00			_	Tot	Specia	Special Instructions/Note:
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TRIPBLANK -042722	1	2			) -				2-		
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		Solid									
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				-							
Nossible Hazard Identification		Dodicioni	Sam	ole Disp	osal (A	fee maybe	assessed if	samples	re retain	Sample Disposal ( A fee maybe assessed if samples are retained longer than 1 month)	1 1 month)
I, III, IV, Other (specify)	IMOUNIO	aurorogicar	Spec	Heturn	Return To Client al Instructions/QC	Return To Client Dis, Special Instructions/QC Requirements	Disposal By Lab ents:	Lab	Arcl	Archive For	Months
Empty Kit Relinquished by:	Date:		Time:				Method	Method of Shipment:			
Reinquished by Reinquished by Reinquished by	Date/Time. 123/27/6,	YO COMPANY LOT		Received by	2		-	Date/Time	ō		Company
remindusired by: Belinduithed by:	Date/Time:	Company		Received by	2			Date/Time	i di		Сотрапу
remiquated uy. Cuttoridu Scaala Tabade:	Date/Time:	Company	œ	Received by	0	1		DaterThe	12 de	1441	Company
		(	0	ooler Tem	perature(s).	Cooler Temperature(s) °C and Other Remarks:	emarks:				

Ver: 06/08/2021

cofins Environment Testing America

M - Hexane M - None O - AsNaO2 P - Na2O45 P - Na2O45 Q - Na2S203 C - Na2S203 C - Na2S203 C - Other (specify) Z - other (specify)

#### Comments

No additional comments.

### Receipt

The samples were received on 4/27/2022 4:40 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.6° C.

### GC/MS VOA

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: PDI-3\_GW (480-197248-10). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The samples were analyzed within the 7-day holding time specified for unpreserved samples: PDI-1\_GW (480-197248-2), PDI-6\_GW (480-197248-4), PDI-7\_GW (480-197248-7), PDI-3\_GW (480-197248-10) and PDI-8\_GW (480-197248-12). pH is 7.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Metals

Method 6010C: The continuing calibration blank (CCB 480-624702/28) contained Total Iron above the reporting limit (RL). All reported samples PDI-1\_0405 (480-197248-1), PDI-2\_0203 (480-197248-3), PDI-7\_0203 (480-197248-5), PDI-3\_0203 (480-197248-8), PDI-8\_0405 (480-197248-9), PDI-6\_0304 (480-197248-11), (LCSSRM 480-624111/2-A) and (MB 480-624111/1-A) associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### 3-IN INSTRUMENT BLANKS METALS

Lab Name:Eurofins BuffaloJob No.:480-197248-1

SDG No.:

Concentration Units: mg/L

		ICB 480-62470 05/04/2022 0		CCB 480-62470 05/04/2022 2		CCB 480-62470 05/04/2022 2		CCB 480-62470 05/04/2022 2	
Analyte	RL	Found	С	Found	С	Found	С	Found	С
Aluminum	0.20	ND		ND		0.0927	J	ND	
Antimony	0.020	ND		ND		ND		ND	
Arsenic	0.015	ND		ND		ND		ND	
Barium	0.0020	ND		ND		ND		ND	
Beryllium	0.0020	ND		ND		0.000400	J	ND	
Cadmium	0.0020	ND		ND		ND		ND	
Calcium	0.50	ND		ND		0.117	J	ND	
Chromium	0.0040	ND		ND		ND		ND	
Cobalt	0.0040	ND		ND		ND		ND	
Copper	0.010	ND		ND		ND		ND	
Iron	0.050	ND		ND		0.0691		ND	
Lead	0.010	ND		ND		ND		ND	
Magnesium	0.20	ND		ND		ND		ND	
Manganese	0.0030	ND		ND		0.00212	J	ND	
Nickel	0.010	ND		ND		ND		ND	
Potassium	0.50	ND		ND		ND		ND	
Selenium	0.025	ND		ND		ND		ND	
Silver	0.0060	ND		ND		ND		ND	
Sodium	1.0	ND		ND		ND		ND	
Thallium	0.020	ND		ND		ND		ND	
Vanadium	0.0050	ND		ND		ND		ND	
Zinc	0.010	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

#### 3-IN METHOD BLANK METALS

Lab Name: Eurofins Buffalo

Job No.: 480-197248-1

SDG No.:

Concentration Units: mg/Kg

Instrument Code: ICAP2

Lab Sample ID: MB 480-624111/1-A

Batch No.: 624702

CAS No.	Analyte	Concentration	С	Q	Method
7429-90-5	Aluminum	ND			6010C
7440-36-0	Antimony	ND			6010C
7440-38-2	Arsenic	ND			6010C
7440-39-3	Barium	ND			6010C
7440-41-7	Beryllium	ND			6010C
7440-43-9	Cadmium	ND			6010C
7440-70-2	Calcium	4.84	J		6010C
7440-47-3	Chromium	ND			6010C
7440-48-4	Cobalt	ND			6010C
7440-50-8	Copper	ND			6010C
7439-89-6	Iron	ND			6010C
7439-92-1	Lead	ND			6010C
7439-95-4	Magnesium	ND			6010C
7439-96-5	Manganese	0.105	J		6010C
7440-02-0	Nickel	ND			6010C
7440-09-7	Potassium	ND			6010C
7782-49-2	Selenium	ND			6010C
7440-22-4	Silver	ND			6010C
7440-23-5	Sodium	ND			6010C
7440-28-0	Thallium	ND			6010C
7440-62-2	Vanadium	ND			6010C
7440-66-6	Zinc	ND			6010C

Buffalo	od Drive	NY 14228-2298
Eurofins	10 Hazelwood Drive	Amherst, N

# **Chain of Custody Record**

🔆 eurofins Environment Testing America

Phone: 716-691-2600 Fax: 716-691-7991							Contrast Translessed Maria	COC No	
Client Information	Sampler, incur bould	53	Schove, J	ohn R			(s)nai Rumperi isuiten	480-173200-37435.2	37435.2
Chent Contact Ms. Ann Marie Kropovitch	Phone.		E-Mail John.Scho	E-Mail John.Schove@et.eurofinsus.com	ofinsus.co	E.	State of Origin	Page Por 2	
Company AECOM		DISMA			A	Analysis Requested	equested	# qor	
Address One John James Audubon Parkway Suite 210	Due Date Requested:							Preservation Codes:	Codes:
City. Amherst	TAT Requested (days):			Texas (c)					M - Hexane Na O2
State, Zip NY, 14228	Compliance Project: A Yes	O NO		W (149)					04S 1SO3 8203
Рноле. 716-923-1137(Tel)	PO#: 60636810		(3	·					04 Dodecahydrate
Emait⊡ ann.marie.kropovitch@aecom.com	WO # Ann.Marie.Kropovitch@	ecom.com	N 20 (			_	480-197309 C	480-197309 Chain of Custody	A
Project Name: Former Bernzomatic Site - Medina, NY	Project # 48015562			ن ن لوب ا			-		<ul> <li>4-5</li> <li>4 - other (specify)</li> </ul>
Site	SSOW#			_	•0			Of col	
	Ň	Sample Type (C=comp, o		010C, 74718 260C - TCL VO	260C - TCL VO			Jedmul 1830	
Sample Identification		Preservation Code	3	-	-	1	5.0 Sign		opecial instructions/note:
201-4-0304	u/23122 0910		Solid					5	
70H-4-66	0	5	Here and the second sec		3			m	
701-9-0203	4/28/22 1009	1 C-	Solid	- +				5	
PDT-9-6W			South >		5			~	
PDI-10-0304	4/28/22 1657	Ŀ,	Solid	- 7				2	
DUP-04 18 22	4/28/22 1025	5	3414	1 7				s	
PDT-10-64	4 28/22 1,30	Ċ.	<u>(</u>		3			8	
PDF-5- 6405	4/28/22 115	5	Sold y	×12 3				15t WS 1	45D
PDT-11-0304	4/28/22 1311	5	Soud	4 1				5	
PDT-11- 6.40	4 28/22 1340	6	GW		3			3	
PDT-12-0405	4/28/22 1421	ઝ	Soliel	+				51	
Possible Hazard Identification	Doison B		<u>s</u>	ample Dis	posal (A	fee may be	assessed if sample	Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month) Polymer to Client Antisoneal By Lab Archive For Mon	1 1 month) Months
sted: I, II, III, IV, Other	Por Central t		S	pecial Instr	uctions/Q	Special Instructions/QC Requirements	ents.		
Empty Kit Relinquished by:			Time				Method of Shipment	ent	
Reinquished by	Date/Turpe	1640 Con	COMPANY	Received by	1 m		Date	0216/1 1640	Company
Relinquished by.	Daterhme	Co	Company	Received by			Date/Time	Time	Company
Reinquished by	Date/Time	S	Company	Received by	ĥ		Date/Time	Time	Company
Custody Seals Intact: Custody Seal No.: A Yes A No				Cooler Ter	nperature(s)	Cooler Temperature(s) <sup>o</sup> C and Other Remarks	Remarks' 250	P.	
									Ver: 06/08/2021

Phone: 716-691-2600 Fax: 716-691-7991					
Client Information	Sampley Francischer Red	Lab PM Schove, John R		) COC No. 480-173200-37435.2	435.2
Client Contact Ms. Ann Marie Krobovitch		E-Mait John.Schove@et.eurofinsus.com	State of Origin: m	Page Page 2 of 2	
Company AFCOM	PWSID	An	Analvsis Requested	# qor	
Address One John James Audubon Parkway Suite 210	Due Date Requested:			Preservation Codes	odes:
City: Amherst	TAT Requested (days):			A - HCL B - NaOH C - Zh Acetate D - Mrice Activ	M - Hexane N - None O - AsNaO2 P - M-2002
State. Zip NY, 14228	Compliance Project: Δ Yes Δ No	Ğ		E - NACH	Q - Na2SO3
Phone. 716-923-1137(Tel)	PO# 60636810	(0		G - Amchlor H - Ascorbic Acid	S - H2SO4 T - TSP Dodecal
Email: ann.marie.kropovitch@aecom.com	wo #. Ann.Marie.Kropovitch@aecom.com	M YO (			U - Acetone V - MCAA
Project Name Former Bernzomatic Site - Medina, NY	Project # 48015562	200		SEICH CEDA	W - pH 4-5 Z - other (specify)
Site	SSOW#	•0		of con	
Samula Manifika-sijas	Sample Date Time Comp.	Note Filtered		redmuk lato'	
	X				
PDT-12-61U	4/22/22/1455 G	C S S S S S S S S S S S S S S S S S S S		M	
TB-042822				2	
23-042822	4/28/22 1575 C	6 1 1 3		1	
PDI-S-GW	4/28/22 1230 G	Solid 3		3	
		Solid			
		Water			
				4954	
				1425	
Rossible Hazard Identification	Poison B     Unknown     Radiological		Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month) Return To Client Disposal By Lab Archive For Mon	es are retained longer than	1 month) Months
, III, IV, Other	1 tract		: Requirements:		
Empty Kit Relinquished by:	Date: 🧳	100	Method of Shipment	nent	
Relinquished by Selinquished by	Date/Timp /28/22 1640	AE COM RECEIVED DA	Date	Date Three 16 40	Company
Reinquished by:	Date/Time		Date	Date/Time	Company
Reinquished by	Date/Time	Company Received by	Date	Date/Time.	Company

#### Comments

No additional comments.

#### Receipt

The samples were received on 4/28/2022 4:40 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.5° C.

#### GC/MS VOA

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: PDI-4\_GW (480-197309-2), PDI-9\_GW (480-197309-4), PDI-11\_GW (480-197309-10) and PDI-12\_GW (480-197309-12). Elevated reporting limits (RLs) are provided.

Method 8260C: Surrogate recovery in the continuing calibration verification (CCV) was outside the 20%D recovery but within house limits. The following samples are impacted: PDI-4\_GW (480-197309-2), PDI-9\_GW (480-197309-4), PDI-11\_GW (480-197309-10), PDI-12\_GW (480-197309-12), TB\_042822 (480-197309-13), RB\_042822 (480-197309-14) and PDI-5\_GW (480-197309-15).

Method 8260C: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The samples were analyzed outside the 7-day holding time specified for unpreserved samples but within the 14-day holding time specified for preserved samples: PDI-4\_GW (480-197309-2), PDI-9\_GW (480-197309-4), PDI-11\_GW (480-197309-10), PDI-12\_GW (480-197309-12) and PDI-5\_GW (480-197309-15).

Method 8260C: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed outside the 7-day holding time specified for unpreserved samples but within the 14-day holding time specified for preserved samples: PDI-10\_GW (480-197309-6). pH is 7.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: PDI-10\_GW (480-197309-6). Elevated reporting limits (RLs) are provided.

Method 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 480-625418 recovered outside control limits for the following analytes: 1,1-Dichloroethene and Tetrachloroethene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The following sample was affected : PDI-10\_GW (480-197309-6).

Method 8260C: Due to the coelution of Ethyl Acetate with 2-Butanone in the full spike solution, these analytes exceeded control limits in the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) associated with batch 625418. The following sample was affected : PDI-10\_GW (480-197309-6).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Metals

Method 6010C: The continuing calibration blank (CCB 480-624702/28) contained Total Iron above the reporting limit (RL). All reported samples PDI-4\_0304 (480-197309-1), PDI-9\_0203 (480-197309-3), PDI-10\_0304 (480-197309-5), DUP\_042822 (480-197309-7), (LCSSRM 480-624111/2-A) and (MB 480-624111/1-A) associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method 6010C: The serial dilution and post spike (480-197309-A-8-A PDS) and (480-197309-A-8-A SD ^5), associated with batch 480-624111, exceeded the quality control limits for Total Manganese. Sample matrix is suspected, therefore, no corrective action was necessary.

Method 6010C: The serial dilution (480-197309-A-8-A SD ^5) associated with batch 480-624702, exhibited a result outside the quality control limits for Total Calcium, Iron, and Zinc. However, the post digestion spike (PDS) was compliant, therefore no corrective action was necessary.

Method 6010C: The recovery of post spike, (480-197309-A-8-A PDS), associated with batch 480-624702, exhibited a result outside quality control limits for Total Magnesium. However, the serial dilution (SD) of this sample was compliant, therefore no corrective action was necessary.

Method 6010C: The method blank for preparation batch 480-624201 contained Total Iron above the reporting limit (RL). None of the samples RB\_042822 (480-197309-14) associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed: RB\_042822 (480-197309-14).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC/MS VOA BATCH WORKSHEET

			-	-l- N 400 10	1				
Lab Name: Eur	ofins Buffalo		J	ob No.: 480-19	97309-1				
SDG No.:									
Batch Number:	624854		В	atch Start Dat	ce: 05/06/22	09:57	Batch Analyst	: Repka, Carly	/
Batch Method:	8260C		В	atch End Date:					
Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	8260 CORP mix 00222	BFB_WRK 00133	GAS CORP mix 00508
BFB 480-624854/2		8260C		1 uL	1 uL			1 uL	
CCVIS 480-624854/3		8260C		5 mL	5 mL		12.5 uL		12.5 uL
LCS 480-624854/5		8260C		5 mL	5 mL		12.5 uL		12.5 uL
MB 480-624854/7		8260C		5 mL	5 mL				
480-197309-B-2	PDI-4_GW	8260C	Т	5 mL	5 mL	7 SU			
480-197309-B-4	PDI-9_GW	8260C	Т	5 mL	5 mL	7 SU			
480-197309-B-10	PDI-11_GW	8260C	Т	5 mL	5 mL	7 SU			
480-197309-B-12	PDI-12_GW	8260C	Т	5 mL	5 mL	7 SU			
480-197309-A-13	TB_042822	8260C	Т	5 mL	5 mL	<2 SU			
480-197309-B-14	RB_042822	8260C	Т	5 mL	5 mL	<2 SU			
480-197309-B-15	PDI-5_GW	8260C	Т	5 mL	5 mL	7 SU			
Lab Sample ID	Client Sample ID	Method Chain	Basis	T_8260_IS 00262	T_8260_Surr 00223	AnalysisComment			
BFB 480-624854/2		8260C							
CCVIS 480-624854/3		8260C		1 uL	1 uL				
LCS 480-624854/5		8260C		1 uL	1 uL				
MB 480-624854/7		8260C		1 uL	1 uL				
480-197309-B-2	PDI-4_GW	8260C	Т	1 uL	1 uL	preserved, T			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

1 uL

1 uL

1 uL

1 uL

1 uL

1 uL

preserved, T

preserved, T

preserved, T

480-197309-B-4 PDI-9 GW

480-197309-B-10 PDI-11 GW

480-197309-B-12 PDI-12 GW

480-197309-A-13 TB 042822

480-197309-B-14 RB 042822

480-197309-B-15 PDI-5 GW

8260C

8260C

8260C

8260C

8260C

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1 uL

1 uL

1 uL

1 uL

1 uL

1 uL

#### 3-IN INSTRUMENT BLANKS METALS

Lab Name:Eurofins BuffaloJob No.:480-197309-1

SDG No.:

Concentration Units: mg/L

		ICB 480-62470 05/04/2022 0		CCB 480-62470 05/04/2022 2		CCB 480-62470 05/04/2022 2		CCB 480-62470. 05/04/2022 2	
Analyte	RL	Found	С	Found	С	Found	С	Found	С
Aluminum	0.20	ND		ND		0.0927	J	ND	
Antimony	0.020	ND		ND		ND		ND	
Arsenic	0.015	ND		ND		ND		ND	
Barium	0.0020	ND		ND		ND		ND	
Beryllium	0.0020	ND		ND		0.000400	J	ND	
Cadmium	0.0020	ND		ND		ND		ND	
Calcium	0.50	ND		ND		0.117	J	ND	
Chromium	0.0040	ND		ND		ND		ND	
Cobalt	0.0040	ND		ND		ND		ND	
Copper	0.010	ND		ND		ND		ND	
Iron	0.050	ND		ND		0.0691		ND	
Lead	0.010	ND		ND		ND		ND	
Magnesium	0.20	ND		ND		ND		ND	
Manganese	0.0030	ND		ND		0.00212	J	ND	
Nickel	0.010	ND		ND		ND		ND	
Potassium	0.50	ND		ND		ND		ND	
Selenium	0.025	ND		ND		ND		ND	
Silver	0.0060	ND		ND		ND		ND	
Sodium	1.0	ND		ND		ND		ND	
Thallium	0.020	ND		ND		ND		ND	
Vanadium	0.0050	ND		ND		ND		ND	
Zinc	0.010	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

#### 3-IN METHOD BLANK METALS

Lab Name: Eurofins Buffalo

Job No.: 480-197309-1

SDG No.:

Concentration Units: mg/L

Instrument Code: ICAP1

Lab Sample ID: MB 480-624201/1-A

Batch No.: 625759

CAS No.	Analyte	Concentration	С	Q	Method
7429-90-5	Aluminum	ND			6010C
7440-36-0	Antimony	ND			6010C
7440-38-2	Arsenic	ND			6010C
7440-39-3	Barium	ND			6010C
7440-41-7	Beryllium	ND			6010C
7440-43-9	Cadmium	ND			6010C
7440-70-2	Calcium	0.365	J		6010C
7440-47-3	Chromium	ND			6010C
7440-48-4	Cobalt	ND			6010C
7440-50-8	Copper	ND			6010C
7439-89-6	Iron	0.0622			6010C
7439-92-1	Lead	ND			6010C
7439-95-4	Magnesium	ND			6010C
7439-96-5	Manganese	0.00210	J		6010C
7440-02-0	Nickel	ND			6010C
7440-09-7	Potassium	0.460	J		6010C
7782-49-2	Selenium	ND			6010C
7440-22-4	Silver	ND			6010C
7440-23-5	Sodium	0.884	J		6010C
7440-28-0	Thallium	ND			6010C
7440-62-2	Vanadium	ND			6010C
7440-66-6	Zinc	ND			6010C

#### 5A-IN MATRIX SPIKE SAMPLE RECOVERY METALS

Client ID: PDI-5 0405 MS

Lab ID: 480-197309-8 MS

Lab Name: Eurofins Buffalo

Job No.: 480-197309-1

SDG No.:

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 92.9

Analyte	SSR C	Sample Result (SF	२) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	14500	6530		2210	360	75-125	F1	6010C
Antimony	32.36	1.2	J	44.2	71	75-125	F1	6010C
Arsenic	41.77	2.7		44.2	88	75-125		6010C
Barium	81.96	32.2		44.2	113	75-125		6010C
Beryllium	38.23	0.27		44.2	86	75-125		6010C
Cadmium	37.41	0.16	J	44.2	84	75-125		6010C
Calcium	26870	24300		2210	114	75-125	4	6010C
Chromium	49.59	7.8		44.2	94	75-125		6010C
Cobalt	51.28	4.0		44.2	107	75-125		6010C
Copper	66.35	25.7		44.2	92	75-125		6010C
Iron	14950	9200		2210	260	75-125	4	6010C
Lead	54.57	6.4		44.2	109	75-125		6010C
Magnesium	16220	13300		2210	133	75-125	4	6010C
Manganese	429.6	387		44.2	95	75-125	4	6010C
Nickel	54.52	8.3		44.2	105	75-125		6010C
Potassium	5403	1290		2210	186	75-125	F1	6010C
Selenium	36.59	0.73	J	44.2	81	75-125		6010C
Silver	9.88	ND		11.0	89	75-125		6010C
Sodium	2044	136	J	2210	86	75-125		6010C
Thallium	43.57	ND		44.2	99	75-125		6010C
Vanadium	58.20	12.9		44.2	102	75-125		6010C
Zinc	67.67	36.3		44.2	71	75-125	F1	6010C
Mercury	0.392	0.019	J	0.363	103	80-120		7471B

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results. Note - Results and Reporting Limits have been adjusted for dry weight.

#### 5A-IN MATRIX SPIKE DUPLICATE SAMPLE RECOVERY METALS

Client ID: PDI-5 0405 MSD

Lab ID: 480-197309-8 MSD

Job No.: 480-197309-1

Lab Name: Eurofins Buffalo

SDG No.:

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 92.9

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Aluminum	11840	2260	235	75-125	20	20	F1	6010C
Antimony	35.73	45.1	77	75-125	10	20		6010C
Arsenic	42.81	45.1	89	75-125	2	20		6010C
Barium	78.89	45.1	104	75-125	4	20		6010C
Beryllium	39.86	45.1	88	75-125	4	20		6010C
Cadmium	39.17	45.1	87	75-125	5	20		6010C
Calcium	25190	2250	38	75-125	6	20	4	6010C
Chromium	48.68	45.1	91	75-125	2	20		6010C
Cobalt	51.01	45.1	104	75-125	1	20		6010C
Copper	65.40	45.1	88	75-125	1	20		6010C
Iron	11890	2250	119	75-125	23	20	4 F2	6010C
Lead	54.16	45.1	106	75-125	1	20		6010C
Magnesium	14250	2250	43	75-125	13	20	4	6010C
Manganese	414.1	45.1	59	75-125	4	20	4	6010C
Nickel	53.85	45.1	101	75-125	1	20		6010C
Potassium	4467	2260	141	75-125	19	20	F1	6010C
Selenium	38.40	45.1	84	75-125	5	20		6010C
Silver	10.29	11.3	91	75-125	4	20		6010C
Sodium	2113	2260	88	75-125	3	20		6010C
Thallium	45.23	45.1	100	75-125	4	20		6010C
Vanadium	56.08	45.1	96	75-125	4	20		6010C
Zinc	66.87	45.1	68	75-125	1	20	F1	6010C
Mercury	0.398	0.344	110	80-120	1	20		7471B

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results. Note - Results and Reporting Limits have been adjusted for dry weight.

#### 5B-IN POST DIGESTION SPIKE SAMPLE RECOVERY METALS

Client ID: PDI-5 0405 PDS

Lab ID: 480-197309-8 PDS

Lab Name: Eurofins Buffalo

Job No.: 480-197309-1

SDG No.:

Matrix: Solid

Concentration Units: mg/Kg

Analyte	SSR	Sample Result (SF	R) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	8545	6530		2250	89	80-120		6010C
Antimony	43.80	1.2	J	45.0	95	80-120		6010C
Arsenic	43.63	2.7		45.0	91	80-120		6010C
Barium	70.58	32.2		45.0	85	80-120		6010C
Beryllium	40.41	0.27		45.0	89	80-120		6010C
Cadmium	39.69	0.16	J	45.0	88	80-120		6010C
Calcium	25380	24300		2250	NC	80-120		6010C
Chromium	46.16	7.8		45.0	85	80-120		6010C
Cobalt	50.77	4.0		45.0	104	80-120		6010C
Copper	63.59	25.7		45.0	84	80-120		6010C
Iron	11080	9200		2250	83	80-120		6010C
Lead	53.60	6.4		45.0	105	80-120		6010C
Magnesium	14410	13300		2250	50	80-120	W	6010C
Manganese	398.7	387		45.0	25	80-120	W	6010C
Nickel	52.81	8.3		45.0	99	80-120		6010C
Potassium	3219	1290		2250	86	80-120		6010C
Selenium	38.86	0.73	J	45.0	85	80-120		6010C
Silver	10.27	ND		11.2	91	80-120		6010C
Sodium	2132	136	J	2250	89	80-120		6010C
Thallium	45.42	ND		45.0	101	80-120		6010C
Vanadium	50.40	12.9		45.0	83	80-120		6010C
Zinc	74.01	36.3		45.0	84	80-120		6010C

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results. Note - Results and Reporting Limits have been adjusted for dry weight.

#### 8-IN ICP-AES AND ICP-MS SERIAL DILUTIONS METALS

Lab ID: 480-197309-8

SDG No:

Lab Name: Eurofins Buffalo

Job No: 480-197309-1

Matrix: Solid

Concentration Units: mg/Kg

Analyte	Initial Samp Result (I)	le C	Serial Dilution Result (S)	С	% Difference	Q	Method
Aluminum	6530		7358		13	V	6010C
Antimony	1.2	J	ND		NC		6010C
Arsenic	2.7		3.23	J	NC		6010C
Barium	32.2		35.39		10		6010C
Beryllium	0.27		0.298	J	NC		6010C
Cadmium	0.16	J	0.259	J	NC		6010C
Calcium	24300		27430		13	V	6010C
Chromium	7.8		8.62		9.9		6010C
Cobalt	4.0		3.87		2.2		6010C
Copper	25.7		27.63		7.5		6010C
Iron	9200		10570		15	V	6010C
Lead	6.4		5.76		NC		6010C
Magnesium	13300		14370		8.3		6010C
Manganese	387		432.7		12	V	6010C
Nickel	8.3		7.53	J	9.5		6010C
Potassium	1290		1358		4.9		6010C
Selenium	0.73	J	ND		NC		6010C
Silver	ND		ND		NC		6010C
Sodium	136	J	169.1	J	NC		6010C
Thallium	ND		ND		NC		6010C
Vanadium	12.9		13.92		7.7		6010C
Zinc	36.3		42.48		17	V	6010C

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05/27/2022

Ver: 06/08/2021

#### Comments

No additional comments.

#### Receipt

The samples were received on 5/9/2022 4:22 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 14.2° C.

#### GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-626280 recovered outside acceptance criteria, low biased, for Methylcyclohexane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported. The associated samples are impacted: MW-14 (480-197706-1), MW-22 (480-197706-2), MW-05R (480-197706-3), RB-050922 (480-197706-4), MW-07 (480-197706-5) and TB-050922 (480-197706-6).

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-22 (480-197706-2), MW-22 (480-197706-2[MS]) and MW-22 (480-197706-2[MSD]). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-05R (480-197706-3). Elevated reporting limits (RLs) are provided.

Method 8260C: The laboratory control sample (LCS) for analytical batch 480-626469 recovered outside control limits for the following analyte(s): Acetone. Acetone has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. The associated sample is impacted: MW-05R (480-197706-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### HPLC/IC

Method 300.0: The following sample was diluted due to the nature of the sample matrix: MW-07 (480-197706-5). Elevated reporting limits (RLs) are provided.

Method 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-22 (480-197706-2) and MW-05R (480-197706-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### **General Chemistry**

Method SM 2320B: The following samples were analyzed within analytical hold with low recovering QC: MW-22 (480-197706-2), MW-22 (480-197706-2[MSD]) and MW-22 (480-197706-2[MSD]). The samples were then re-analyzed outside of analytical hold with acceptable QC standard recoveries.

Method SM 2320B: Reanalysis of the following samples were performed outside of the analytical holding time due to initial QC failing : MW-22 (480-197706-2), MW-22 (480-197706-2[MS]) and MW-22 (480-197706-2[MSD]). Both sets of data has been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### 5A-IN MATRIX SPIKE SAMPLE RECOVERY METALS

Client ID: MW-22 MS

Lab ID: 480-197706-2 MS

Lab Name: Eurofins Buffalo

Job No.: 480-197706-1

SDG No.:

Matrix: Water

Concentration Units: mg/L

% Solids:

Analyte	SSR	Sample Result (SI	R) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	20.53	8.9		10.0	116	75-125		6010C
Antimony	0.215	ND		0.200	107	75-125		6010C
Arsenic	0.206	0.0062	J	0.200	100	75-125		6010C
Barium	0.754	0.57		0.200	90	75-125		6010C
Beryllium	0.207	0.00034	J	0.200	103	75-125		6010C
Cadmium	0.198	ND		0.200	99	75-125		6010C
Calcium	144.0	139		10.0	51	75-125	4	6010C
Chromium	0.210	0.0096		0.200	100	75-125		6010C
Cobalt	0.206	0.0072		0.200	100	75-125		6010C
Copper	0.226	0.036		0.200	95	75-125		6010C
Iron	18.32	11.4		10.0	70	75-125	F1	6010C
Lead	0.206	0.0090	J	0.200	98	75-125		6010C
Magnesium	43.92	34.5		10.0	94	75-125		6010C
Manganese	2.52	2.6		0.200	-22	75-125	4	6010C
Nickel	0.207	0.015		0.200	96	75-125		6010C
Potassium	51.63	39.5		10.0	121	75-125		6010C
Selenium	0.202	ND		0.200	101	75-125		6010C
Silver	0.0478	ND		0.0500	96	75-125		6010C
Sodium	178.7	170		10.0	85	75-125	4	6010C
Thallium	0.202	ND		0.200	101	75-125		6010C
Vanadium	0.215	0.015		0.200	100	75-125		6010C
Zinc	0.224	0.034		0.200	95	75-125		6010C
Mercury	0.00663	ND		0.00667	99	80-120		7470A

SSR = Spiked Sample Result

#### 5A-IN MATRIX SPIKE DUPLICATE SAMPLE RECOVERY METALS

Client ID: MW-22 MSD

Lab ID: 480-197706-2 MSD

Job No.: 480-197706-1

Lab Name: Eurofins Buffalo

SDG No.:

Matrix: Water

Concentration Units: mg/L

% Solids:

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Aluminum	17.84	10.0	89	75-125	14	20		6010C
Antimony	0.209	0.200	105	75-125	3	20		6010C
Arsenic	0.206	0.200	100	75-125	0	20		6010C
Barium	0.736	0.200	81	75-125	2	20		6010C
Beryllium	0.205	0.200	102	75-125	1	20		6010C
Cadmium	0.195	0.200	97	75-125	1	20		6010C
Calcium	142.2	10.0	33	75-125	1	20	4	6010C
Chromium	0.204	0.200	97	75-125	3	20		6010C
Cobalt	0.202	0.200	98	75-125	2	20		6010C
Copper	0.218	0.200	91	75-125	4	20		6010C
Iron	16.37	10.0	50	75-125	11	20	F1	6010C
Lead	0.200	0.200	96	75-125	3	20		6010C
Magnesium	43.08	10.0	86	75-125	2	20		6010C
Manganese	2.41	0.200	-79	75-125	5	20	4	6010C
Nickel	0.202	0.200	94	75-125	3	20		6010C
Potassium	50.92	10.0	114	75-125	1	20		6010C
Selenium	0.197	0.200	99	75-125	2	20		6010C
Silver	0.0464	0.0500	93	75-125	3	20		6010C
Sodium	175.8	10.0	57	75-125	2	20	4	6010C
Thallium	0.200	0.200	100	75-125	1	20		6010C
Vanadium	0.208	0.200	97	75-125	3	20		6010C
Zinc	0.212	0.200	89	75-125	5	20		6010C
Mercury	0.00665	0.00667	100	80-120	0	20		7470A

SDR = Sample Duplicate Result

#### 5B-IN POST DIGESTION SPIKE SAMPLE RECOVERY METALS

Client ID: MW-22 PDS

Lab ID: 480-197706-2 PDS

Job No.: 480-197706-1

Lab Name: Eurofins Buffalo

SDG No.:

Matrix: Water

Concentration Units: mg/L

Analyte	SSR C	Sample Result (SF	२) С	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	19.07	8.9		10.0	101	80-120		6010C
Antimony	0.219	ND		0.200	110	80-120		6010C
Arsenic	0.216	0.0062	J	0.200	105	80-120		6010C
Barium	0.739	0.57		0.200	82	80-120		6010C
Beryllium	0.212	0.00034	J	0.200	106	80-120		6010C
Cadmium	0.203	ND		0.200	102	80-120		6010C
Calcium	143.7	139		10.0	NC	80-120		6010C
Chromium	0.214	0.0096		0.200	102	80-120		6010C
Cobalt	0.213	0.0072		0.200	103	80-120		6010C
Copper	0.237	0.036		0.200	101	80-120		6010C
Iron	20.98	11.4		10.0	96	80-120		6010C
Lead	0.212	0.0090	J	0.200	101	80-120		6010C
Magnesium	43.16	34.5		10.0	86	80-120		6010C
Manganese	2.65	2.6		0.200	NC	80-120		6010C
Nickel	0.214	0.015		0.200	100	80-120		6010C
Potassium	48.08	39.5		10.0	86	80-120		6010C
Selenium	0.207	ND		0.200	103	80-120		6010C
Silver	0.0496	ND		0.0500	99	80-120		6010C
Sodium	173.9	170		10.0	NC	80-120		6010C
Thallium	0.208	ND		0.200	104	80-120		6010C
Vanadium	0.218	0.015		0.200	102	80-120		6010C
Zinc	0.230	0.034		0.200	98	80-120		6010C

SSR = Spiked Sample Result

#### 3-IN METHOD BLANK METALS

Lab Name: Eurofins Buffalo

Job No.: 480-197706-1

SDG No.:

Concentration Units: mg/L

Instrument Code: ICAP2

Lab Sample ID: MB 480-625558/1-A

Batch No.: 626220

CAS No.	Analyte	Concentration	С	Q	Method
7429-90-5	Aluminum	ND			6010C
7440-36-0	Antimony	ND			6010C
7440-38-2	Arsenic	ND			6010C
7440-39-3	Barium	ND			6010C
7440-41-7	Beryllium	ND			6010C
7440-43-9	Cadmium	ND			6010C
7440-70-2	Calcium	ND			6010C
7440-47-3	Chromium	ND			6010C
7440-48-4	Cobalt	ND			6010C
7440-50-8	Copper	ND			6010C
7439-89-6	Iron	ND			6010C
7439-92-1	Lead	ND			6010C
7439-95-4	Magnesium	ND			6010C
7439-96-5	Manganese	0.000430	J		6010C
7440-02-0	Nickel	ND			6010C
7440-09-7	Potassium	ND			6010C
7782-49-2	Selenium	ND			6010C
7440-22-4	Silver	ND			6010C
7440-23-5	Sodium	ND			6010C
7440-28-0	Thallium	ND			6010C
7440-62-2	Vanadium	ND			6010C
7440-66-6	Zinc	0.00295	J		6010C

#### 3-IN METHOD BLANK GENERAL CHEMISTRY

 Lab Name:
 Eurofins Buffalo
 Job No.:
 480-197706-1

SDG No.:

Result Qual	Units	RL	Dil
ND	mg/L	0.50	1
ND	mg/L	2.0	1
ND	mg/L	5.0	1
0.940 J	mg/L	5.0	1
ND ^-	mg/L	5.0	1
2.40 J	mg/L	5.0	1
3.84 J	mg/L	5.0	1
	ND ND ND 0.940 J ND ^- 2.40 J	ND         mg/L           ND         mg/L           ND         mg/L           0.940 J         mg/L           ND ^-         mg/L           2.40 J         mg/L	ND         mg/L         0.50           ND         mg/L         2.0           ND         mg/L         5.0           0.940 J         mg/L         5.0           ND ^-         mg/L         5.0           2.40 J         mg/L         5.0

#### 5-IN MATRIX SPIKE SAMPLE RECOVERY GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-197706-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C Unit	Spike Amount	Pct. Rec.	Limits	RPD RPD Limit	Q
Batch	ID: 625608 D	ate: 05/11/2022 19:08							
300.0	480-197706-2	Chloride	133	mg/L					
300.0	480-197706-2 MS	Chloride	371.8	mg/L	251	95	81-120		
300.0	480-197706-2	Sulfate	94.8	mg/L					
300.0	480-197706-2 MS	Sulfate	337.4	mg/L	250	97	80-120		
Batch	ID: 625608 D	ate: 05/11/2022 23:23							
300.0	480-197706-5	Chloride	28.6	mg/L					
300.0	480-197706-5 MS	Chloride	124.1	mg/L	100	95	81-120		
300.0	480-197706-5	Sulfate	24.4	mg/L					
300.0	480-197706-5 MS	Sulfate	122.6	mg/L	100	98	80-120		
Batch	ID: 626878 D	ate: 05/19/2022 21:07							
SM 2320B	480-197706-2	Alkalinity, Total	637	mg/L					в^-
SM 2320B	480-197706-2 MS	Alkalinity, Total	666.3	mg/L	100	29	60-140		4 ^-
Batch	ID: 627462 D	ate: 05/24/2022 11:26							
SM 2320B	480-197706-2	Alkalinity, Total	665	mg/L					H B Fl
SM 2320B	480-197706-2 MS RA	Alkalinity, Total	692.0	mg/L	1000	3	60-140		H F1

#### 5-IN MATRIX SPIKE DUPLICATE SAMPLE RECOVERY GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-197706-1

SDG No.:

Matrix: Water

Method Lab Sample ID Analyte	Result (	C Unit	Spike Amount	Pct. Rec.	Limits	RPD <sub>I</sub>	RPD imit	Q
Batch ID: 625608 Date: 05/11/2022 19:27								
300.0 480-197706-2 Chloride MSD	372.7	mg/L	251	96	81-120	0	15	
300.0 480-197706-2 Sulfate MSD	337.6	mg/L	250	97	80-120	0	15	
Batch ID: 626878 Date: 05/19/2022 21:14								
SM 480-197706-2 Alkalinity, Total 2320B MSD	668.8	mg/L	100	32	60-140	0	20	4 ^-
Batch ID: 627462 Date: 05/24/2022 11:35								
SM 480-197706-2 Alkalinity, Total 2320B MSD RA	687.6	mg/L	1000	2	60-140	1	20	H F1

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**Chain of Custody Record** 

Controlins Environment Testing America

FILORE / 10-031-2000 FAX. / 10-031-1331		11.24.014		Contractions Market	COC No.
Client Information	Tom Urben	Schove	Schove, John R		480-173201-37439.2
Client Contact: Mo. And Muric Kronowitch	846.56	3 L E-Mail	E-Mail John Schove@et enrofinens com	State of Origin.	Page: Parie 2 of 6
INS. AIRT MARIE NUCHANICA	Md Dero				
AECOM			Analysis Requested	quested	
Address: One John Jarmes Audubon Parkway Suite 210	Due Date Requested:				ion Codes:
City. Amherst	TAT Requested (days):		cd		
State, Zip NY 14228	Compliance Project: A Yes A No		2337		
T11			14000		f Acid
Email ann marie kronovitch@aecom com	wo # Ann.Marie.Kropovitch@aecom.com		(o)		I - Ice J - DI Water
Project Name. Formet Rennzromatin Sitle - Medina NY	Project # 48015562				K - EDTA L - EDA
Site	SSOW#		وی (۲۰ د not bo nide & ane		Other:
	Sample		orform MS/MS 260C - TCL VOC 2010C - Dissolve 00.0_28D - Chio 5K_175 - Metha 320B - Alkalinity 320B - Alkalinity		o tedmuk listo
Sample Identification		Preservation Code:			P special instructions/Note.
19 P	5/10/22 0910	G Water			4
MW- 16	1000	G Water	31		4
1 1	1115 0	> Water	3111311		(1
ED-051022	5/10/22 - (	Water	3111311		11
1- M W	5/10/22 1220 0	> Water	~		n
	5/10/22 - (	Water	2		
		Water			
		Water			
		Water		480-197	480-197773 Chain of Custody
		Water			
		Water			
Possible Hazard Identification	Poison B Unknown	Radiological	Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month) — Return To Client P Disposal By Lab Archive For Mon	assessed if samples are ret	ained longer than 1 month) Archive For Months
Deliverable Requested: I, III, IV, Other (specify)			Special Instructions/QC Requirements	ents:	
Empty Kit Relinquished by:	Date:		Time:	Method of Shipment	Drop off
Reinquished by: Tom Uhu	Datertime	Company	Received by MMMUN	1 Wold Date Time: 5	11012215500+1A
Relinquished by:	Date/Time	Company	Received by	Date/Time	Сотралу
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Custody Seals Intact: Custody Seal No.:			Cooler Temperature(s) <sup>o</sup> C and Other Remarks	temarks 11 a. U -	# 1 NO TIF
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05/26/2022

#### Comments

No additional comments.

#### Receipt

The samples were received on 5/10/2022 3:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 16.4° C.

#### GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-626280 recovered outside acceptance criteria, low biased, for Methylcyclohexane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported. The associated samples are impacted: MW-19R (480-197773-1), MW-16 (480-197773-2), MW-21 (480-197773-3), FD-051022 (480-197773-4) and MW-17 (480-197773-5).

Method 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: MW-19R (480-197773-1), MW-16 (480-197773-2) and MW-17 (480-197773-5). Elevated reporting limits (RLs) are provided.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-21 (480-197773-3) and FD-051022 (480-197773-4). Elevated reporting limits (RLs) are provided.

Method 8260C: The laboratory control sample (LCS) for analytical batch 480-626760 recovered outside control limits for the following analytes: Methylene Chloride, Carbon disulfide, 1,1-Dichloroethene and 1,1,2-Trichloro-1,2,2-trifluoroethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### HPLC/IC

Method 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-21 (480-197773-3) and FD-051022 (480-197773-4). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### **General Chemistry**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### 3-IN METHOD BLANK METALS - TOTAL RECOVERABLE

Lab Name: Eurofins Buffalo

Job No.: 480-197773-1

SDG No.:

Concentration Units: mg/L Instrument Code: ICAP1 Lab Sample ID: MB 480-625841/1-A

Batch No.: 627212

CAS No.	Analyte	Concentration	С	Q	Method
7439-89-6	Iron, Dissolved	0.0264	J		6010C

#### Attachment 3 – Regenesis Technical Design for In-situ Groundwater Remedy



Technology-Based Solutions for the Environment

**PROJECT NAME** 

# **1** Bernzomatic Drive

**Preliminary Proposal Revision 1** 

#### **PREPARED FOR**

AECOM James Kaczor james.kaczor@aecom.com

Kevin Connare kevin.connare@aecom.com

#### PREPARED BY

REGENESIS

Elliot Maker emaker@regenesis.com

lan Doliana idoliana@regenesis.com

March 24, 2023

# **Project Summary**

REGENESIS appreciates the opportunity to provide AECOM this remedial design and cost estimate for this project. Included within is a brief summary of our proposed solution, our understanding of your project goals, the technologies proposed, and a table summarizing the design.

#### **Proposed Solution**

We are proposing a permeable reactive barrier utilizing PlumeStop, S-MicroZVI, AquaFix, and BioDechlor INOCULUM Plus (BDI Plus) to address migrating cVOC impacts along the previous building perimeter. We have also provided source treatment options with 3-D Micro Emulsion, S-MZVI, and BDI Plus. These reagents will be applied via direct push injection. We have also provided an alternate layout for consideration by AECOM.

**Design Summary** 

#### **Project Goals**

- Prevent migration of cVOCs near MW-5r •
- Reduce cVOC mass in the suspected source

#### **Technologies Proposed**

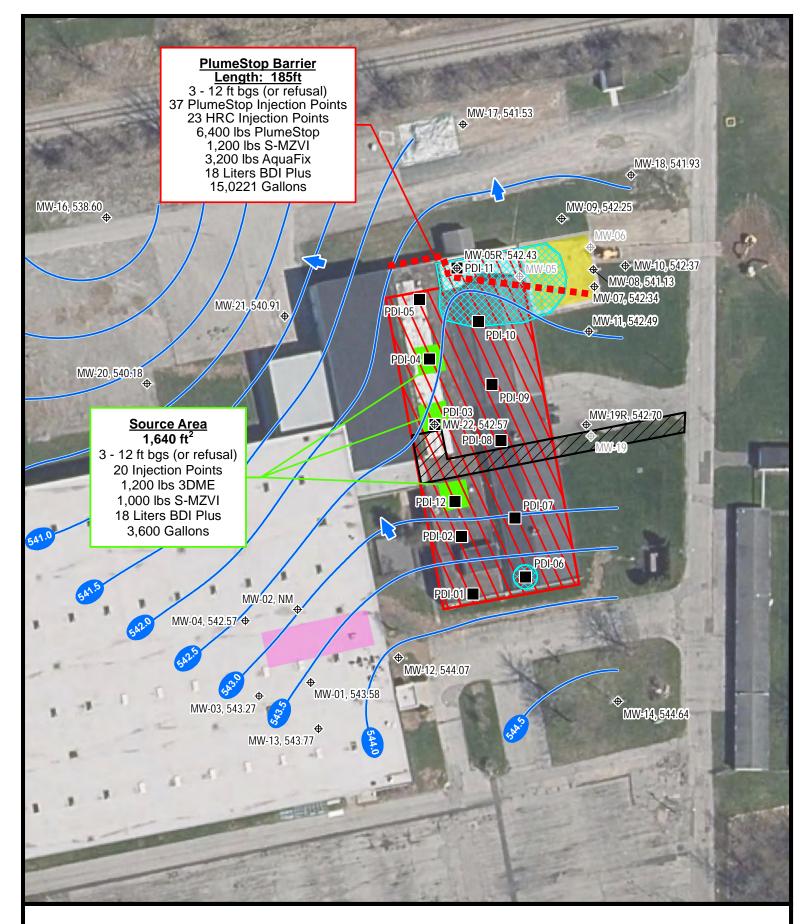
- PlumeStop®
- <u>S-MicroZVI®</u>
- AquaFix
- Bio-Dechlor INOCULUM® Plus (BDI Plus)
- <u>3-D Microemulsion®</u>

MW-5R Barrier				
Design Parameters	Unit	Value		
Treatment Type		Barrier		
Distance Perpendicular to Flow (ft)	Distance Perpendicular to Flow (ft)			
Top Application Depth (ft bgs)		3		
Bottom Application Depth (ft bgs)	Bottom Application Depth (ft bgs)			
Vertical Treatment Interval	9			
Soil Type		sand		
Porosity	cm3/cm3	0.33		
Effective Porosity	cm3/cm3	0.20		
Hydraulic Gradient	ft/ft	0.015		
GW Velocity	ft/yr	232.85		
Eff. Pore Voume Occupancy		60%		
Application Summary				
Spacing Within Rows (ft)		5		
Number of Rows		1		
DPT Injection Points		37		
Product Dosage				
PlumeStop	lbs	6,400		
S-MZVI	Ibs	1,200		
AquaFix	Ibs	3,200		
BDI Plus	Liters	18		
Water Required	gallons	14,221		
Total Volume Applied	gallons	15,021		

# Source Area

Design Parameters	Unit	Value
Treatment Type		Grid
Treatment Areal Extent (sq ft)		1,640
Top Application Depth (ft bgs)		3
Bottom Application Depth (ft. bgs)		12
Vertical Treatment Interval	ft	9
Soil Type		sand
Porosity	cm3/cm3	0.33
Effective Porosity	cm3/cm3	0.20
Hydraulic Gradient	ft/ft	0.015
GW Velocity	ft/yr	232.85
Eff. Pore Voume Occupancy		15%
Application Summary		
Spacing Within Rows (ft)		9
Spacing Between Rows (ft)		9
DPT Injection Points		20
Product Dosage		
3DME to be Applied	lbs	1,200
S-MZVI to be Applied	lbs	1,000
BDI Plus to be Applied	L	18
Water Required	gallons	3,385
Total Volume Applied	gallons	3,600





1 Bernzomatic Drive

Figure 1 - Injection Layout

AECOM

March 24, 2023

# **Technical Approach**

We are proposing the application of PlumeStop® Liquid Activated Carbon™ (PlumeStop), Sulfidated-Micro Zero Valient Iron (S-MicroZVI<sup>®</sup>), AquaFix, and Bio-Dechlor Inoculum Plus (BDI Plus<sup>®</sup>) to treat residual chlorinated solvents. Together, these technologies will foster rapid concentration reductions and provide long-term treatment of the target compounds through sorption plus abiotic and biological destructive pathways, while minimizing the potential for daughter product formation. PlumeStop is a colloidal form of activated carbon with a surface treatment which reduces its interactions with the soil matrix. This allows it to move through soil pores leaving a coating on the soil matrix as it distributes from the injection point. This provides a very large sorption surface which will result in immediate reduction of these contaminants while concentrating contaminants to allow for more efficient and controlled remediation through destructive technologies like S-MicroZVI and HRC. S-MicroZVI is a concentrated suspension of sulfidated, colloidal zero-valent iron, designed for enhanced, long-lasting reactivity and ease of application relative to other forms of ZVI. When applied to the subsurface it imparts an *in-situ* chemical reduction (ISCR) mechanism that allows for the direct destruction of chlorinated ethenes (i.e. TCE) via abiotic degradation pathways, which minimizes the formation of daughter products such as vinyl chloride. Sulfidation of the ZVI surface significantly decreases the reaction that occurs between water and the ZVI particles, allowing the reagent to be more effective for the chemical reduction of chlorinated ethenes. In addition, the inclusion of S-MicroZVI can enhance the biological degradation of contaminants by creating and sustaining a reduced environment for the dechlorinating bacteria. AquaFix is a new colloidal electron donor that provides a controlled release of hydrogen for an extended period of time to stimulate anaerobic bioremediation. BDI Plus is added to bioaugment the site with a live microbial culture that is known to fully degrade these compounds. As contaminants are degraded to non-toxic and non-sorptive end products, the PlumeStop sorption surface will be regenerated. This allows for further sorption and treatment of contaminants which may diffuse back into the groundwater from the soil matrix over time.

#### **TECHNICAL BULLETINS**

- <u>PlumeStop® Technical Bulletin 2.1: Sorption of Contaminants from Solution</u>
- <u>PlumeStop® Technical Bulletin 2.2: Sorption of Contaminants from Solution-Column Study</u>
- <u>PlumeStop® Technical Bulletin 3.1 Post-Sorption Contaminant Biodegradation</u>
- PlumeStop® Technical Bulletin 4.1: Regeneration of Sorptive Capacity
- PlumeStop® Technical Bulletin 6.1: Treatment Solution of Back Diffusion-Tank Study
- <u>3-D Microemulsion® Technical Bulletin: Micelluar Distribution</u>

#### **CASE STUDIES**

- PlumeStop Case Study-Michigan Plating Facility
- PlumeStop® Case Study: Site Goals Achieved Within 2 Months at Manufacturing Facility
- <u>3-D Microemulsion® Case Study: Combined Remedy Protects Michigan Neighborhood</u>



able 2: Remedial Design Parameters Summary
--

Target Treatment Zone (TTZ) Info	Unit	Value
Barrier Length	ft	185
Top Treat Depth	ft	3.0
Bot Treat Depth	ft	12.0
Vertical Treatment Interval	ft	9.0
Treatment Zone Volume	ft³	16,650
Treatment Zone Volume	су	617
Soil Type		sand
Porosity	cm <sup>3</sup> /cm <sup>3</sup>	0.33
Effective Porosity	cm <sup>3</sup> /cm <sup>3</sup>	0.20
Treatment Zone Pore Volume	gals	41,102
Treatment Zone Effective Pore Volume	gals	24,910
Treatment Zone Pore Volume	liters	155,586
Treatment Zone Effective Pore Volume	liters	94,295
Fraction Organic Carbon (foc)	g/g	0.002
Soil Density	g/cm³	1.7
Soil Density	lb/ft³	108
Soil Weight	lbs	1.8E+06
Hydraulic Conductivity	ft/day	8.5
Hydraulic Conductivity	cm/sec	3.00E-03
Hydraulic Gradient	ft/ft	0.015
GW Velocity	ft/day	0.64
GW Velocity	ft/yr	233

#### Performance Monitoring

To measure performance at your site, we recommend the following analytical parameters be collected at key wells within the zone of influence of treatment.

n-Situ Anaerobic Bioremediation Performance Monitoring Parameter		
Analytical Parameter	Method	
Contaminants of Concern (COC's)	Varies	
рН		
Dissolved Oxygen (DO)	Meter reading taken in flow-through cell (DO ca	
Oxidation Reduction Potential (ORP)	also be measured with a Hach kit)	
Total Fe		
Total Mn	Colorimetric Hach Method or EPA 6000 series	
Dissolved Fe	with filtered and unfiltered samples	
Dissolved Mn		
Sulfate	EPA 375.3 or EPA 9056	
Sulfide	EPA 376.1	
Nitrate	EPA 353.1 or EPA 9056	
Total Organic Carbon (TOC)	EPA 415.1 or EPA 9060	
Alkalinity	EPA 310.2	
Chloride	EPA 300	
Methane, Ethane, Ethene, CO2	ASTM D1945	



#### Design Verification Testing (DVT)

Design Verification Testing (DVT) is a term used to describe a suite of field sampling/testing activities carried out before implementing a subsurface substrate injection program. The purpose is to verify that the subsurface conditions at the selected application location match those conditions used in the design. Performing the DVT step provides critical data input to the design team allowing to adjust the necessary elements in the design. These design adjustments significantly improve substrate placement and result in an overall improvement in remedial performance and a reduction in overall project cost. Additional information regarding our DVT program can be found via the following link: <u>DVT TECHNICAL MEMO</u>

REGENESIS is recommending installing a FluxTracer in at the target wells (MW-5R). FluxTracer is a device that is deployed into the saturated screened interval of a monitoring well, that can accurately determine groundwater speed and chlorinated solvent mass flux, both are instrumental in the successful design of PlumeStop barriers. A FluxTracer unit consists of a series of 2-foot pre-strung canisters, that can be installed into a 2-inch monitoring well for approximately 2 weeks. Each canister contains activated carbon and biodegradable tracers. As groundwater naturally moves through the FluxTracer, contaminants are sorbed to the activated carbon, and the tracers are depleted from activated carbon. The amount of sorbed contaminants is used to determine mass flux, while the depletion of the tracers can estimate groundwater speed. Initial construction and lab analysis is completed by REGENESIS, leaving only the installation and retrieval to AECOM.

To best ensure a successful treatment, REGENESIS recommends design verification testing (DVT) be completed prior to the application of the proposed remedy.



# **Performance Objectives**

#### This section only applied to the PlumeStop Barrier, not the source treatment.

#### Purpose/Goals

The purpose of this remedial approach is to address migration concerns near MW-5R. The goal will be to achieve reductions of PCE, TCE, DCE and VC below regulatory standards at the defined compliance wells downgradient of the PlumeStop permeable reactive barrier. The table below outlines the baseline concentrations for key performance monitoring wells.

Well ID	Groundwater Sampling Date**	Tetrachloro ethene (ug/ L)*	Trichloroethe ne (ug/L)	Dichloroet hene (ug/ L)	Dichlorethane (ug/L)	Vinyl Chloride (ug/L)
MW-5R	5/2022	5.7	31	210	22	2.4

#### TABLE 2: BASELINE CONTAMINANT CONCENTRATIONS

\* groundwater sampling data reported in parts per billion (ppb)

\*\* Based on groundwater sampling data as provided in Table 2 entitled "Validated Groundwater Sample Results" dated 2022.

#### Monitoring

To evaluate and measure performance at this site, monitoring wells MW-5R will be utilized. Within this proposal it is suggested that groundwater monitoring parameters will be collected after 3 months, and quarterly thereafter. To help support performance evaluations, REGENESIS requests the data collected be provided to us in a timely manner.

#### Qualifiers (Design Considerations)

Included below, a list of pertinent qualifiers has been provided to better define performance expectations at this site. REGENESIS will be happy to discuss these with you in detail.

- Seepage velocity/mass flux is a primary driver of dose for PlumeStop projects. This is the basis for our recommendation of Passive Flux Meters at your site.
- As indicated above MW-5R and MW-7 are the key wells which should be used to evaluate the performance of the PlumeStop barrier.
- Placement validation will be performed during the application to confirm proper reagent distribution and placement.



# **Statement of Qualifications**

RRS provides turn-key remediation planning, design, and application services. RRS field scientists are college degreed professionals that understand an accurate remediation design using the proper chemistry and appropriate dosage can fail to show good performance if management of the injection program is not performed in a manner to validate the intended treatment rationale and design. They have the unique background and experience to understand the significance of modifications made in the field. No one has more professional experience handling and applying in-situ remediation products than RRS personnel. The direct management of the injection program through RRS will optimize the design and ultimately the overall performance of the injection program.

For years, RRS has been offering industry-leading application services combined with excellence in field activity management. Our success is achieved after meeting cleanup objectives established by the environmental engineering firms who contract our services. To produce this outcome, we field project teams with the experience, discipline and dedication to work hand-in-hand with our client to address the unique requirements of each project site. Technical insight and timely, direct, and honest communication are hallmarks of RRS. Our reputation for meeting or exceeding clients' objectives and those of environmental regulators have been proven in project successes throughout North America.

With decades of application experience, our Field Service Team is strategically located across the country to mobilize and assist on a wide range of sites throughout the US.



Over 100 Projects Completed Annually Across the US



# **RRS Scope of Services**

RRS will work under the direction of AECOM to implement the fieldwork associated with the application of the selected remediation technologies. Responsibilities for the implementation of this scope of work will be shared between RRS and AECOM. Responsibilities for each are outlined in this section and further under the Assumptions/ Qualification section.

At the beginning of each day, a safety tailgate meeting will be conducted and an overview of the procedures, responsibilities, and goals for the day will be discussed. RRS will be equipped with multiple injection tool options to use with 1.5-inch diameter DPT rods.

The injection tool string will be advanced to the top or bottom of the TTZ and injections will be performed in a bottom-up or top-down method depending on site and lithology conditions. The remediation technologies will be mixed in an injection trailer (Figure 2) with water in batches at the designated solution percentage and kept in constant suspension throughout the injection application. Pressures, flow rates, and total volume will be monitored and digitally documented for each injection interval. Multiple injection points may be injected into simultaneously to increase efficiencies on-site. The injection points and surrounding areas will be monitored for any signs of surfacing and a spill response kit will be on standby. During the application, real-time information will be collected and analyzed to help verify design assumptions and subsurface reagent distribution. Depending on the primary product applied, data collected and analyzed may consist of groundwater quality parameters (i.e., pH, conductivity, DO, ORP, etc.), depth to water measurements, visual indicators through groundwater or soil samples, and in-field injection concentration test kits. This information is typically collected during the application when within 10 feet of an appropriately screened monitoring well. Based on the information collected, the project team may choose to modify the remediation. This includes modification to injection concentrations, volume per vertical foot, injection intervals, etc.

Once the injection event is completed, RRS will demobilize all equipment and personnel off-site. A detailed injection summary report which includes injection point data (interval depths, injection pressure/flow rates, reagent volume, time elapsed and if surfacing occurred), field observations and any other noteworthy information will be generated and made available to AECOM.

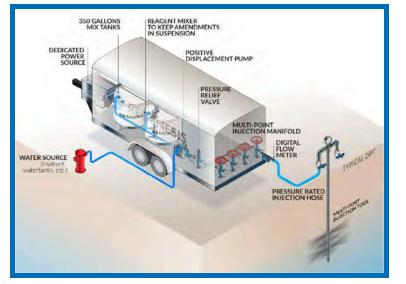


Figure 2: RRS Application Trailer

**REGENESIS**<sup>°</sup>

# Scope of Services Summary (Both Areas)

Application Type	Direct-Push Injection
Volume	18,326 gallons
# of Injection Points	57
Days of Injection	8
Direct-Push Services Provided by	AECOM

# **Project Responsibilities**

#### **RRS will:**

- Provide and ship the specified quantities of the remediation reagents to the site address provided by AECOM. RRS shipping estimates assume all products will be shipped to the site at the same time.
- Coordinate with AECOM prior to any shipment of product. Alternative shipping locations or phases could lead to an increase in freight costs.
- Mobilize a 40-hour HAZWOPER certified crew experienced in the proper application of REGENESIS remediation technologies.
- Provide a forklift to maneuver the product containers for the duration of the project.

#### AECOM will:

- Coordinate project schedule and reagent order with REGENESIS to ensure adequate shipping and mobilization time.
- Coordinate site access with property owner to coincide with project schedule and identify a secure product staging area.
- Should private underground utilities be within the treatment area, AECOM will contract with a private utility locating service to mark utilities prior to RRS mobilization. RRS can provide costs if requested.
- Provide a water source (e.g. hydrant) capable of producing at least 30 GPM for the duration of the project within 300 ft. of the project staging area, at no cost to RRS.
- Responsible for transportation and disposal of any contaminated waste generated on-site during injection activities, though we do not anticipate generating any such waste during injection activities.
- Contract a qualified, licensed DPT drilling operator equipped with the necessary tooling and materials to safely complete the application scope of work outlined within this proposal



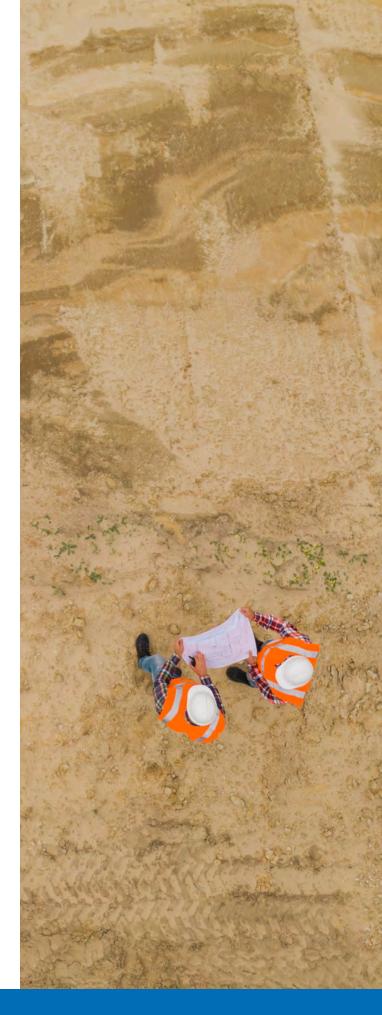
### **Services Assumptions and Qualifications**

In generating this proposal, REGENESIS relied upon professional judgment and site-specific information provided by others. Using this information as input, we performed calculations based upon known chemical and geologic relationships to generate an estimate of the mass of product and subsurface placement required to affect remediation of the site. The attached design summary tables specify the assumptions used in preparation for this technical design. We request that these modeling input assumptions be verified by your firm prior to application of the product. Other assumptions and qualifications related to this proposal are as follows:

- The product and services cost outlined will be valid for 60 days from date of proposal. If beyond 60 days, REGENESIS reserves the right to update cost.
- The freight charges included for product delivery above are estimated at the time of proposal generation. Actual freight charges are neither set nor guaranteed by REGENESIS and are calculated when the product order is placed. This price may vary from what is estimated above. Actual freight charges for product delivery will be invoiced.
- Freight delivery time frames cannot be guaranteed and RRS will not be responsible for any delays or any resulting increase in cost associated with those delays.
- If applicable, sales tax charges for product, freight, and services are considered estimated at the time of proposal submittal. The appropriate sales tax category (i.e., product, freight, and services) and actual sales tax rate is finalized at the time of invoice and may change from date of proposal submittal.
- AECOM personnel will take delivery of the remediation chemistry prior to RRS mobilization and stage inside a secure storage location where the material will not be affected by inclement weather. RRS will provide a sea shipping container rental for such storage.
- AECOM is responsible for disposal or recycling of totes, drums, pails and pallets. All non-hazardous refuse will be collected and placed in a AECOM-provided an on-site refuse container for disposal. RRS will collect project-related refuse and empty treatment chemistry containers daily to keep the site clean.

- RRS will have access to the site for equipment operation and secure storage of materials and equipment throughout the duration of the project. All access to each work area location will be clear and free of obstructions. RRS also assumes the injection trailer will be staged within 80 feet of the furthest injection point location.
- AECOM will provide a field water quality meter similar to a YSI 556 with a down-hole sensor, a water level meter, bailers, and a technician while on-site for injection activities to assist RRS in assessing groundwater from monitoring wells.
- AECOM is responsible for securing any permits prior to mobilizing to the site.
- AECOM is responsible for all soil, air, and groundwater sampling and analysis.
- AECOM is responsible for transportation and disposal of any contaminated waste generated on-site, though we do not anticipate generating any such waste during direct push injection activities.
- For safety reasons, access to the treatment area will be limited to RRS and AECOM personnel.
- The remediation design and injection procedures contain the necessary precautions to minimize the likelihood of surfacing the treatment chemistry. RRS will monitor treatment chemistry application flow rates and pressures as well as observe for signs of reagent surfacing around active injection areas. If surfacing is detected, RRS will stop or slow down injection activities at that location to stop additional surfacing and remove/vacuum up recoverable surfaced fluid. RRS is not responsible for treatment chemistry infiltration into undesired locations beyond our visible control.

- RRS personnel will have access to the site for work up to 12 hours per day Monday through Friday (daylight hours). However, the standard workday does not exceed 10 hours with travel time Monday through Friday. A 10-hour workday does not mean 10 hours on-site and/or injection pumping. Additional charges may apply for Saturday and/ or Sunday work schedules.
- RRS is not responsible for damage to unmarked utilities and subsurface structures. AECOM will review as-built drawings with RRS to confirm clearance prior to advancing DPT injection tooling and marking injection point locations.
- Pricing and work schedule assume union labor and prevailing wages (Davis-Bacon) are not required.
- This proposal assumes probing and drilling will begin at the ground surface. If hand auger, concrete/asphalt coring, or air knife services are required, additional charges, including surface restoration charges could apply.
- RRS assumes that direct-push style drill rig can access all injection point locations and drive injection tooling to the required depth. If site conditions limit the use of the provided direct-push rig for any injection point and other drilling methods are required to complete the task, additional charges will apply.
- All traffic control requirements, if necessary, will be provided by AECOM.
- All injection points will be closed/backfilled with bentonite to ground surface by RRS. Additional costs associated with restoration of the ground surface have not been included. If restoration of the ground surface is needed, additional charges will apply.
- Site conditions can change over time and should be monitored post-injection. REGENESIS is not responsible for changing site conditions after completing the scope of work and demobilizing from the site. This includes but is not limited to changes related to borehole abandonment (i.e., swelling of backfill material), surface restoration, well conditions, and on-site utilities.



# **Health and Safety Plan**

REGENESIS is committed to providing a safe and healthy working environment for all employees, AECOMs and contractors on-site. Prior to mobilization RRS will develop a site-specific Health and Safety Plan (HASP) and designate an on-site safety officer. All personnel on-site are required to participate in daily safety tailgate meetings with the goal of proactively identifying potential hazards and mitigating risks to the full extent possible.

In addition to the hours of rigorous safety training courses all personnel are required to complete, REGENESIS also incorporates a behavior-based safety program by utilizing our DoneSafe mobile application (app) interface on every site. This app encourages our personnel to actively search for potential on-site risks and document mitigation actions taken. The effectiveness of our safety program can be seen in our industry-leading EMR ratings listed in Table 3.

Year	Total Hours	EMR
2021	125,592	0.71
2020	162,037	0.64
2019	169,964	0.66
2018	144,600	0.70
2017	140,706	0.70

RRS safety tailgate meetings and HASP will include the following:

- Site map with entrance and exit points and best possible muster points depending on conditions.
- List of personnel and contact information for employees on-site and supporting the project.
- Route to the nearest occupational treatment facility and hospital along with contact information.
- Job Hazard Analysis (JHA) detailing each job task on-site with its potential hazards and best practices to avoid those hazards.
- Description and hazards of the contaminants of concern (COC) with appropriate Personal Protection Equipment (PPE) requirements.
- COVID-19 precautions will be discussed, and personnel will be equipped with face coverings.
- List and description of REGENESIS chemicals onsite including a Safety Data Sheet (SDS) for each chemical.
- Checklist of site safety equipment including fire extinguishers, eyewash station, first aid kit, spill prevention kit, and any site-specific equipment needed.
- Daily Tailgate safety meeting sheet with identified hazards and risks associated with the site and job tasks for that day, along with shared learning observations from the previous day.





# **Detailed Design Table**

Projec	t Info		PlumeStop® Application De	sign Summary	
Bernzo	matic		MW-5R Barrier		
Medin	a, NY		PlumeStop + S-M2	Technical Notes	
MW-5R	Barrier		Treatment Type	Barrier	
Prepare			Distance Perpendicular to Flow (ft)	185	Injection Radius for Soil Coverage iff-est ave
Kevin Conna	ire, AECOM	_	Spacing Within Rows (ft)	5	3.8
Target Treatment Zone (TTZ) Info	Unit	Value	Number of Rows	1	Concerning and the second states of
Barrier Length	ft	185	DPT Injection Points	37	PlumeStop Inject. Conc. (mg/L)
Top Treat Depth	ft	3.0	Top Application Depth (ft bgs)	3	10,273
Bot Treat Depth	ft	12.0	Bottom Application Depth (ft bgs)	12	
Vertical Treatment Interval	ft	9.0	PlumeStop to be Applied (lbs)	6,400	
Treatment Zone Volume	ft <sup>3</sup>	16,650	PlumeStop to be Applied (gals)	710	
Treatment Zone Volume	cy	617	In Situ Chemical Reduction	n - S-MZVI	Special Instructions:
Soll Type	1 C	sand	S-MZVI to be added to PlumeStop (lbs)	1,200	
Porosity	cm <sup>2</sup> /cm <sup>2</sup>	0.33	S-MZVI to be added to PlumeStop (gals)	79	
Effective Porosity	cm <sup>3</sup> /cm <sup>3</sup>	0.20	PlumeStop + S-MZVI Volur	ne Totals	
Treatment Zone Pore Volume	gals	41,102	Mixing Water (gai)	14,221	
Treatment Zone Effective Pore Volume	gals	24,910	Total Application Volume (gals)	15,021	
Treatment Zone Pore Volume	liters	155,586	Injection Volume per Point (gals)	406	
Treatment Zone Effective Pore Volume	liters	94,295	Anaerobic Bioremediation	- AquaFix	
Fraction Organic Carbon (foc)	g/g	0.002			
Soil Density	g/cm <sup>3</sup>	1.7	AquaFix to be Applied (lbs)	3,200	
Soil Density	lb/ft <sup>2</sup>	108	AquaFix per point (lbs)	86	
Soil Weight	lbs	1.8E+05	and a second sec		
Hydraulic Conductivity	ft/day	8.5			
Hydraulic Conductivity	am/sec	3.00E-03	Bioaugmentation - HDI	Plus	
Hydraulic Gradient	ft/ft	0.015	BDI Plus Application Points	37	
GW Velocity	ft/day	0.64	BDI Plus to be Applied (Liters)	18	
GW Velocity	ft/yr	233	BDI Plus per point (Liters)	0.5	
Application Dosing	Unit	Value			
PlumeStop to be Applied S-MZVI to be Applied	lbs lbs	6,400 1,200			
AquaFix to be Applied	lbs	3,200			
BDI Plus to be Applied	Liters	18		Prepa	red by: Ian Doliana - Design Specialis!
					Date: 3/24/2023

# **Detailed Design Table (continued)**

Project Info	rmation		3-D Microemulsion®, S-N	IZVI®, BDI® Plus Appli	cation Design Summary
Bernzon Medina			Source Area		
Source	Area		Treatment Type	Grid	
Prepared	For:		Treatment Areal Extent (sq ft)	1,640	
Kevin Connar	e, AECOM		Spacing Within Rows (ft)	9	
Target Treatment Zone (TTZ) Info	Unit	Value	Spacing Between Rows (ft)	9	
Areal Extent	sq ft	1,640	DPT Injection Points	20	
op Treat Depth	ft	3.0	Top Application Depth (ft bgs)	3	Field Mixing Ratios
ot Treat Depth	ft	12.0	Bottom Application Depth (ft bgs)	12	3DME Concentrate per Pt (gals)
/ertical Treatment Interval	ft	9.0	3DME to be Applied (lbs)	1,200	7
reatment Zone Volume	ft <sup>3</sup>	14,760	3DME to be Applied (gals)	144	Mix Water per Pt (gals)
reatment Zone Volume	cy	547	3DME Mix %	4%	169
oil Type		sand	Volume Water (gals)	3,385	3DME Mix Volume per Pt (gals)
Porosity	cm <sup>5</sup> /cm <sup>3</sup>	0.33	3DME Mix Volume (gals)	3,529	176
ffective Porosity	cm <sup>3</sup> /cm <sup>3</sup>	0,20	S-MZVI to be Applied (lbs)	1,000	S-MZVI Volume per Pt (gals)
reatment Zone Pore Volume	gals	36,436	5-MZVI Volume (gals)	66	3
reatment Zone Effective Pore Volume	gals	22,082	BDI Plus to be Applied (L)	18	BDI Volume per Pt (L)
raction Organic Carbon (foc)	E/E	0,002			0.9
oil Density	g/cm <sup>3</sup>	1.7			
oil Density	Ib/ft <sup>3</sup>	108			
oll Weight	lbs	1.6E+06	Total Application Volume (gals)	3,600	Volume per pt (gals)
lydraulic Conductivity	ft/day	8.5			180
lydraulic Conductivity	cm/sec	3.00E-03	Prepared by: Ia	an Doliana - Design Specia	Volume per vertical ft (gals)
lydraulic Gradient	ft/ft	0.015	Date: 3	/23/2023	20
SW Velocity	ft/day	0.64	Te	chnical Notes/Discussion	
W Velocity	ft/yr	233			
Application	Dosing	an at la a			
3-D Microemulsion to be Applied	lbs	1,200			
-MZVI to be Applied	Ibs	1,000			
BDI Plus to be Applied	liters	18			



# **AquiFix Technical Description**

AquiFix<sup>™</sup> is an innovative electron donor designed to be compatible and co-injectable with PlumeStop. AquiFix is formulated with both fast-acting as well as long-lasting, slow releasing electron donor materials to drive the biodegradation of chlorinated solvents present in the groundwater. This formulation includes a solid phase source of fatty acids and beneficial nutrients to support the dechlorinating microbe population. It is designed to initially provide a rapid release of organic carbon to quickly establish a reducing environment and provide a hydrogen source to dechlorinating bacteria then followed by slow-release fatty acids to promote and sustain the reductive dechlorination of cVOCs. While the slow-release feature will decrease the frequency of re-application of the product, AquiFix's key benefit is its mobility and compatibility with PlumeStop. This solid-phase organic donor causes minimal interference with target contaminants for adsorption onto activated carbon, enabling AquiFix to be co-injected with the Liquid Activated Carbon safely. In summary, the function of AquiFix is to:

- Serve as a PlumeStop-compatible electron donor to support enhanced reductive dechlorination.
- Quickly create reducing conditions and acclimate dechlorinating bacteria by providing a fast-degrading source of organic carbon.
- Provide a slow-release fatty acids that extends the time between re-applications and offers bacteria a lowlevel source of organic carbon for efficient and sustained degradation.

#### **Chemical Composition**

- Emulsified solid fatty acids
- Sodium lactate
- Water
- Proprietary additives

#### Properties

Physical State	Liquid		
Form	Aqueous suspension	_	
Color	Cream		
Odor	Slight		
pН	~4.0-6.0 in a 10% Solution		
Density	8.34 lb/gal		
Viscosity	10-200 cP @ 25° C		



### Application

AquiFix is diluted with water on site and easily applied with PlumeStop into the subsurface through low-pressure injections using injection wells or by direct push methods.

#### Storage and Handling Guidelines

#### Storage

- Shelf life of 1 year
- Store in original tightly closed container
- Store away from incompatible materials (see SDS)
- Store at (40°F to 95°F)
- Do not allow product to freeze or store in direct sunlight

## Handling

- Avoid contact with skin and eyes
- Wear appropriate protective equipment
- Do not taste or swallow
- Observe good industrial hygiene practices
- Dispose of waste and residue in accordance with the local authority requirements

#### Health and Safety

The material is relatively safe to handle, but avoids contact with eyes, skin and clothing. OSHA Level D personal protection equipment including vinyl or rubber gloves and eyes protection are recommended when handling this product. Please review the Safety Data Sheet (SDS) for additional information

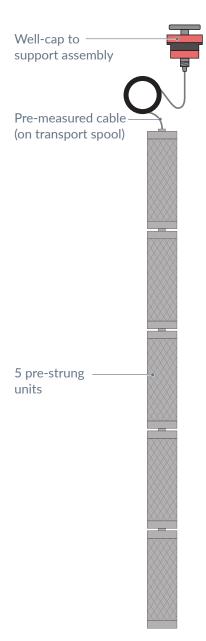
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## **Specification Sheet**

FluxTracer<sup>®</sup> Flux Mapping Tools are easy-to-use devices that vertically delineate contaminant mass flux and groundwater speed within an existing monitoring well to aid in site characterization and remedial designs. The FluxTracers consist of five separate two-foot-long stainless-steel screen canisters that are secured in series on a pre-measured central wire line equipped with a modified J-Plug well cap. FluxTracers are always pre-assembled, arriving at your site ready to deploy with no on-site construction required. The unique design provides joint-like flexibility between the closely stacked canisters to easily install and remove from a well.

Each FluxTracer canister is filled with granular activated carbon pre-loaded with biodegradable tracers. The tracers are composed of five different alcohols each having well-known partitioning characteristics with the activated carbon. As groundwater passively flows through a FluxTracer canister over the deployment period, the alcohol tracers are depleted from the activated carbon, with the net loss of the tracers directly correlating to the groundwater speed. At the same time, any contaminants present in the groundwater adsorb to the activated carbon during the deployment period. The total mass of contaminants accumulated on the activated carbon is then quantified and the contaminant mass flux is calculated.

A study consists of a FluxTracer installation into a well across a predetermined vertical interval of the saturated zone. The FluxTracer unit is typically in the well for two weeks and then retrieved. Once removed from the well, the FluxTracer devices are simply repackaged into the provided sleeves with zip ties and returned to the REGENESIS Lab for analysis. No on-site disassembly or sampling is required.

Upon receipt in the REGENESIS lab, each FluxTracer canister's contents will be sampled and analyzed at one-foot intervals. From those analyses, an accurate vertical profile of contaminant mass flux (mg/m²/day) and groundwater Darcy flux (speed) (cm/day) is generated, and the results are provided in a report. The generated data provides remedial designers with important information on the flux zones within the aquifer, which ultimately aids to improve the results of remediation efforts.



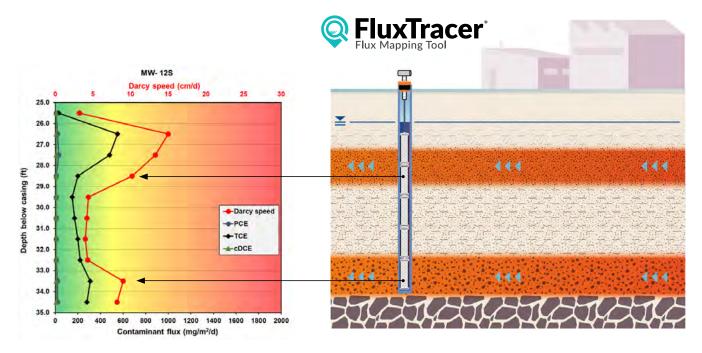


Illustration of a FluxTracer installed in a heterogeneous aquifer, and the ability to identify higher water and contaminant flux zones in an example data set.



## **Storage and Handling Guidelines**

- Follow all installation and retrieval directions.
- Store the FluxTracers in the original shipping cooler until deployment. The cooler should be stored in a cool, dark location until deployment.
- Do not remove the FluxTracers from the packaging until the time of deployment.
- FluxTracers should be deployed within five days of receipt.
- Wear appropriate personal protective equipment when handling.

## **Applications**

- REGENESIS currently only offers FluxTracer units for 2-inch diameter schedule 40 PVC wells.
- FluxTracers are currently only appropriate for determining contaminant flux of chlorinated VOCs: PCE, TCE, and cDCE.

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## Installation and Retrieval Instructions

The following document outlines the procedures for installing, retrieving, and returning the REGENESIS<sup>®</sup> FluxTracer<sup>®</sup> device.

## **Equipment Checklist**

REGENESIS will construct and ship a fully contained, ready to install FluxTracer. There is minimal preparation required to install and retrieve the FluxTracer.

Materials provided by	<ul> <li>FluxTracer device (fully assembled)</li> </ul>
REGENESIS	<ul> <li>Blue ice</li> </ul>
	• Pair of wire cutters for unpacking
	● 10' x 10' tarp
	• Chain of custody form
	<ul> <li>FluxTracer return kit (used to package the device for return to REGENESIS)</li> </ul>
Return kit contents:	• Zip ties to secure FluxTracer canisters inside return sleeves
	<ul> <li>Plastic cover sleeves (one per canister plus extra)</li> </ul>
	<ul> <li>Large plastic bag</li> </ul>
Tools that are not provided but are required for installation	• Water level indicator
and retrieval:	<ul> <li>Tools to access monitoring well (e.g. socket set/open end wrenches)</li> </ul>
	• PPE



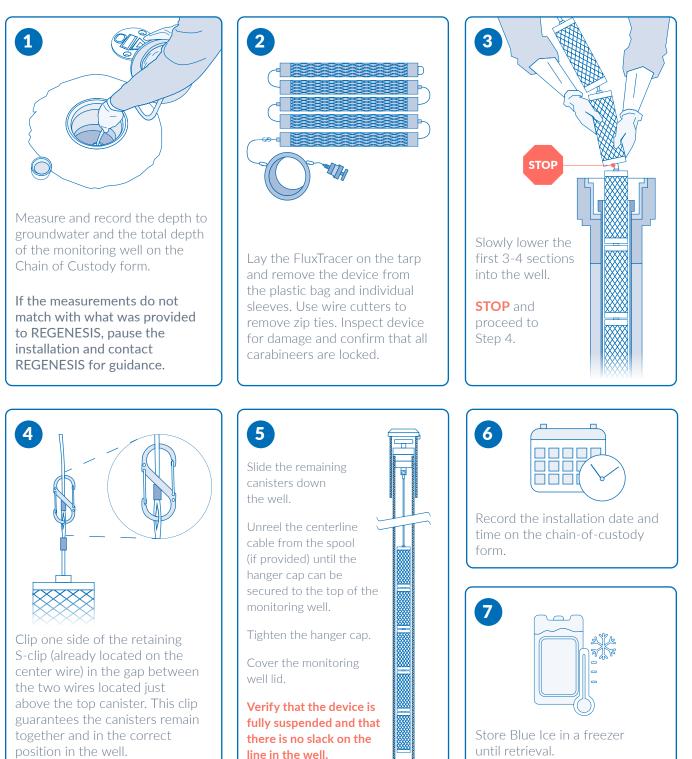
## **Installation Instructions**

All installation materials that are listed in the REGENESIS-provided equipment section above will be included inside the cooler the device is shipped in.

#### Each FluxTracer device arrives fully assembled. Installation will require:

- Confirming the well depth
- Device unpacking
- Canister insertion
- Retaining S-clip attachment

#### Below is a detailed description of the installation process:





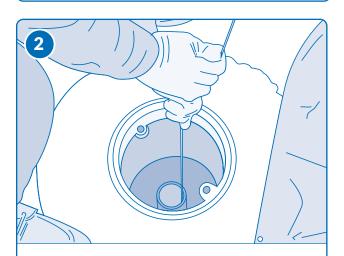
## **Retrieval Instructions**

After the FluxTracer canisters have been installed inside of the monitoring well for the recommended deployment period, the units are ready to be retrieved and shipped back to REGENESIS.

The FluxTracer canisters should be shipped via overnight shipping and with cold blue ice to preserve the alcohol tracers and contaminants for measurement. DO NOT PACK COOLER WITH WET ICE! Doing so may adversely affect the final data.

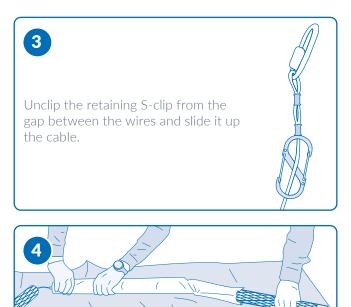


Lay the provided tarp near the monitoring well. Ensure that the return plastic bags (large and small) are available for packaging.



Loosen the hanger cap and pull the FluxTracer canisters out of the monitoring well by slowly pulling on the centerline cable. There may be a slight tension on the cable while pulling. It is helpful to wind the cable back onto the spool as you retireve the units.

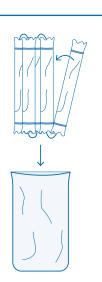
Take care not to lift and drop the FluxTracer inside of the monitoring well as this will wash additional alcohol tracers from the granular activated carbon which can result in skewed data.



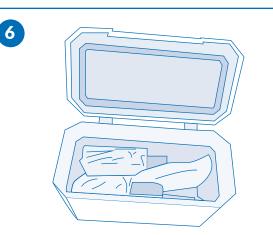
Lay the retrieved FluxTracer canisters on the tarp. Carefully slide the small plastic return bags over each FluxTracer canister. Secure a zip tie over the top and bottom of each canister as well as a zip tie over the plastic bag that extends onto the centerline cable. It is normal to have some water inside the return bags.



After the small plastic return sleeves have been secured around each FluxTracer canister, fold each unit together and place inside the large plastic return bag. Secure the large plastic return bag by tightening a zip tie around the top of the bag.







#### Pack the cooler:

Place the plastic bag wrapped FluxTracer canisters inside the cooler and cover with blue ice.

Place the provided equipment inside the cooler, please crosscheck with equipment checklist.

Record the retrieval date and time as well as any issues that you may have observed (high ambient air temperatures, rain while installing, etc.) on the provided chain-of-custody. Take a picture of the COC and then place it inside the plastic document bag within the cooler.

Secure the cooler and close with duct tape.

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 Image: Constraint of the second s

Using the provided return label, ship the cooler overnight to REGENESIS. Please provide your REGENESIS lab contact with the shipping tracking number.

After retrieval, the device must be immediately shipped overnight back to REGENESIS **Monday-Thursday.** 

Weekend receiving is **not** available.

Note: Use ground shipping label if device was **not** deployed.

## Shipping address:

REGENESIS FluxTracer 1011 Calle Sombra San Clemente, CA 92673 949-366-8000





## **Important Technical Notes**

- The FluxTracer is designed to be installed inside of a 2-inch diameter schedule 40 monitoring well.
- Take care not to drop or bend the FluxTracer canisters as this may affect the installation into a monitoring well.
- REGENESIS constructs each FluxTracer unit specific to the monitoring well targeted for installation. Therefore, it is critical to accurately measure the depth to water and total depth of the monitoring well and provide the recorded measurements to REGENESIS for FluxTracer construction. The FluxTracer should not be installed into sediment in a well as this will skew the data and can result in the FluxTracer becoming stuck in the monitoring well.

## Storage and Handling Guidelines

- The FluxTracer should be installed within four days of receipt.
- Store the FluxTracer in the original shipping cooler until installation. The cooler should be stored in a cool, dark area until installation.
- Do not remove the FluxTracer from the packaging until the time of installation.

## Health and Safety

REGENESIS recommends that a two-person crew be used to install and retrieve the FluxTracer. Recommended PPE for installation and retrieval include (but are not limited to): work gloves, safety glasses, and high visibility vests.

Consult your health and safety officer for site-specific requirements.

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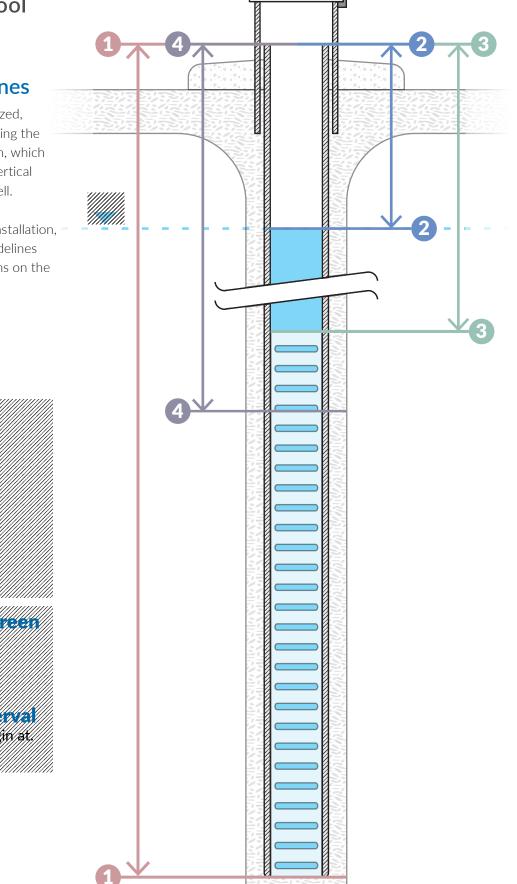




## **Measurement Guidelines**

REGENESIS<sup>®</sup> will provide a customized, pre-assembled FluxTracer device using the measurements provided in this form, which will rest within the targeted 10 ft vertical interval of the tested monitoring well.

To ensure a successful FluxTracer installation, please follow the measurement guidelines when providing your well dimensions on the Well Evaluation Form.



## Length Guide

All units in feet

Total Depth Measured from top of well casing to bottom/silt

## 2 Average de la come

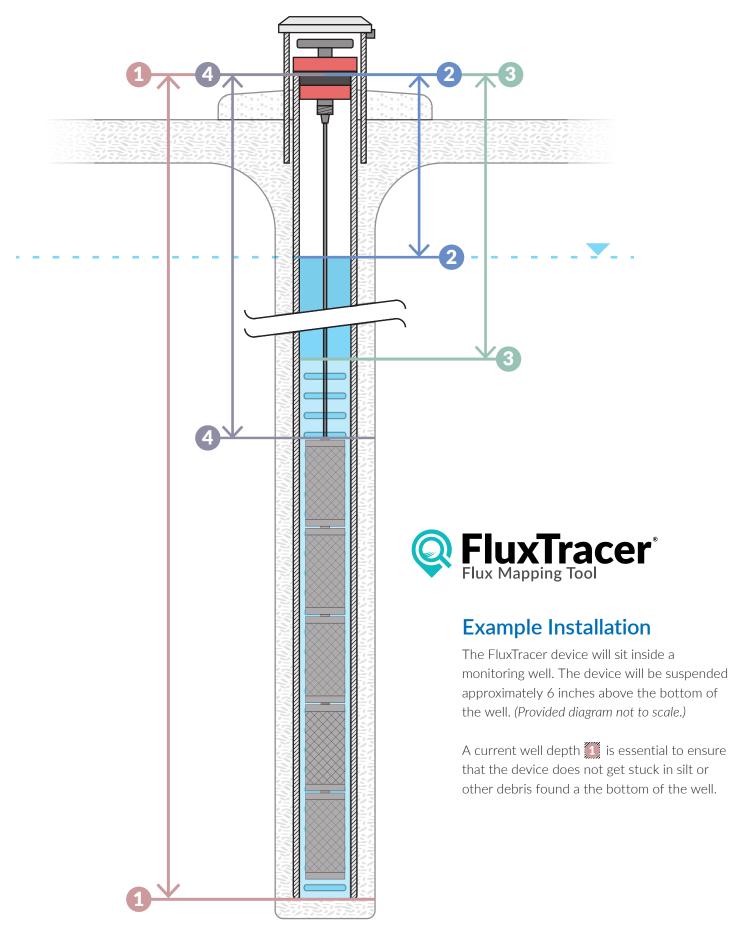
Anticipated depth to water at time of installation

Depth to Top of Screen Measured from top of well casing to top of screened interval

4 **Start of Target Interval** Depth the device will begin at.

/////





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## **Well Evaluation Form**





#### **Important Information:**

- Review the Measurement Guidelines and Example Installation
- I confirm the target well(s) total depth 🚺 has been measured within the past 3 months and is not obstructed to this reported depth. REGENESIS is not responsible for devices that become stuck due to improperly reported well depths, materials or dimensions.

Initials:

FORM NOT COMPLETE WITHOUT INITIALS

#### Remember to Include:

Please provide the following (when available):

- Site map with groundwater monitoring wells
- Representative boring logs/ cross sections
- Historical and current analytical tables
- Hydraulic parameters
- Geochemical data
- Potentiometric map

**Site Information** 

ite Name	Customer Name and Company
ite Address	Lead Regulatory Agency
Receiving Address	Project Manager
Deployment Date	Phone Email

## Wells Targeted for FluxTracer Investigation

Using the included guidelines, fill in the table below:

Monitoring Well Name	Well Device Diameter Length	Total Depth (feet)	Water Table (feet)	Depth to Top of Screen (feet)	Start of Target Interval (feet)	Contaminants of Concern	Installation Date/Time	Retrieval Date/Time
	2"							
	2"							
	2"							
	2"							
Note: Sche	dule 40 PVC only	1	2	3	(4)		Leave Blank Un	til Installation

## **Chain of Custody**

Fill out before returning to REGENESIS.

Relinquished By	Date/Time	Received By	Date/Time	
Relinquished By	Date/Time	Received By	Date/Time	
Relinquished By	Date/Time	Received By	Date/Time	

Attachment 4 - DER-10 Appendix 1A, New York State Department of Health Generic Community Air Monitoring Plan & DER-10 Appendix 1B Fugitive Dust and Particulate Monitoring

### Appendix 1A New York State Department of Health Generic Community Air Monitoring Plan

#### Overview

A Community Air Monitoring Plan (CAMP) requires real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust) at the downwind perimeter of each designated work area when certain activities are in progress at contaminated sites. The CAMP is not intended for use in establishing action levels for worker respiratory protection. Rather, its intent is to provide a measure of protection for the downwind community (i.e., off-site receptors including residences and businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of investigative and remedial work activities. The action levels specified herein require increased monitoring, corrective actions to abate emissions, and/or work shutdown. Additionally, the CAMP helps to confirm that work activities did not spread contamination off-site through the air.

The generic CAMP presented below will be sufficient to cover many, if not most, sites. Specific requirements should be reviewed for each situation in consultation with NYSDOH to ensure proper applicability. In some cases, a separate site-specific CAMP or supplement may be required. Depending upon the nature of contamination, chemical- specific monitoring with appropriately-sensitive methods may be required. Depending upon the proximity of potentially exposed individuals, more stringent monitoring or response levels than those presented below may be required. Special requirements will be necessary for work within 20 feet of potentially exposed individuals or structures and for indoor work with co-located residences or facilities. These requirements should be determined in consultation with NYSDOH.

Reliance on the CAMP should not preclude simple, common-sense measures to keep VOCs, dust, and odors at a minimum around the work areas.

#### Community Air Monitoring Plan

Depending upon the nature of known or potential contaminants at each site, real-time air monitoring for VOCs and/or particulate levels at the perimeter of the exclusion zone or work area will be necessary. Most sites will involve VOC and particulate monitoring; sites known to be contaminated with heavy metals alone may only require particulate monitoring. If radiological contamination is a concern, additional monitoring requirements may be necessary per consultation with appropriate DEC/NYSDOH staff.

**Continuous monitoring** will be required for all <u>ground intrusive</u> activities and during the demolition of contaminated or potentially contaminated structures. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pitting or trenching, and the installation of soil borings or monitoring wells.

**Periodic monitoring** for VOCs will be required during <u>non-intrusive</u> activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. "Periodic" monitoring during sample collection might reasonably consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or

overturning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location. In some instances, depending upon the proximity of potentially exposed individuals, continuous monitoring may be required during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence.

## VOC Monitoring, Response Levels, and Actions

Volatile organic compounds (VOCs) must be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis or as otherwise specified. Upwind concentrations should be measured at the start of each workday and periodically thereafter to establish background conditions, particularly if wind direction changes. The monitoring work should be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment should be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment should be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

1. If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.

2. If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities must be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.

3. If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown.

4. All 15-minute readings must be recorded and be available for State (DEC and NYSDOH) personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.

## Particulate Monitoring, Response Levels, and Actions

Particulate concentrations should be monitored continuously at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring should be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment must be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.

1. If the downwind PM-10 particulate level is 100 micrograms per cubic meter  $(mcg/m^3)$  greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 mcg/m<sup>3</sup> above the upwind level and provided that no visible dust is migrating from the work area.

2. If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/m<sup>3</sup> above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/m<sup>3</sup> of the upwind level and in preventing visible dust migration.

3. All readings must be recorded and be available for State (DEC and NYSDOH) and County Health personnel to review.

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### Appendix 1B Fugitive Dust and Particulate Monitoring

A program for suppressing fugitive dust and particulate matter monitoring at hazardous waste sites is a responsibility on the remedial party performing the work. These procedures must be incorporated into appropriate intrusive work plans. The following fugitive dust suppression and particulate monitoring program should be employed at sites during construction and other intrusive activities which warrant its use:

1. Reasonable fugitive dust suppression techniques must be employed during all site activities which may generate fugitive dust.

2. Particulate monitoring must be employed during the handling of waste or contaminated soil or when activities on site may generate fugitive dust from exposed waste or contaminated soil. Remedial activities may also include the excavation, grading, or placement of clean fill. These control measures should not be considered necessary for these activities.

3. Particulate monitoring must be performed using real-time particulate monitors and shall monitor particulate matter less than ten microns (PM10) with the following minimum performance standards:

- (a) Objects to be measured: Dust, mists or aerosols;
- (b) Measurement Ranges: 0.001 to 400 mg/m3 (1 to 400,000 :ug/m3);

(c) Precision (2-sigma) at constant temperature: +/- 10 :g/m3 for one second averaging; and +/- 1.5 g/m3 for sixty second averaging;

(d) Accuracy: +/-5% of reading +/- precision (Referred to gravimetric calibration with SAE fine test dust (mmd= 2 to 3 :m, g= 2.5, as aerosolized);

- (e) Resolution: 0.1% of reading or 1g/m3, whichever is larger;
- (f) Particle Size Range of Maximum Response: 0.1-10;
- (g) Total Number of Data Points in Memory: 10,000;

(h) Logged Data: Each data point with average concentration, time/date and data point number

(i) Run Summary: overall average, maximum concentrations, time/date of maximum, total number of logged points, start time/date, total elapsed time (run duration), STEL concentration and time/date occurrence, averaging (logging) period, calibration factor, and tag number;

(j) Alarm Averaging Time (user selectable): real-time (1-60 seconds) or STEL (15 minutes), alarms required;

(k) Operating Time: 48 hours (fully charged NiCd battery); continuously with charger;

(1) Operating Temperature: -10 to  $50^{\circ}$  C (14 to  $122^{\circ}$  F);

(m) Particulate levels will be monitored upwind and immediately downwind at the working site and integrated over a period not to exceed 15 minutes.

4. In order to ensure the validity of the fugitive dust measurements performed, there must be appropriate Quality Assurance/Quality Control (QA/QC). It is the responsibility of the remedial party to adequately supplement QA/QC Plans to include the following critical features: periodic instrument calibration, operator training, daily instrument performance (span) checks, and a record keeping plan.

5. The action level will be established at 150 ug/m3 (15 minutes average). While conservative,

this short-term interval will provide a real-time assessment of on-site air quality to assure both health and safety. If particulate levels are detected in excess of 150 ug/m3, the upwind background level must be confirmed immediately. If the working site particulate measurement is greater than 100 ug/m3 above the background level, additional dust suppression techniques must be implemented to reduce the generation of fugitive dust and corrective action taken to protect site personnel and reduce the potential for contaminant migration. Corrective measures may include increasing the level of personal protection for on-site personnel and implementing additional dust suppression techniques (see paragraph 7). Should the action level of 150 ug/m3 continue to be exceeded work must stop and DER must be notified as provided in the site design or remedial work plan. The notification shall include a description of the control measures implemented to prevent further exceedances.

6. It must be recognized that the generation of dust from waste or contaminated soil that migrates off-site, has the potential for transporting contaminants off-site. There may be situations when dust is being generated and leaving the site and the monitoring equipment does not measure PM10 at or above the action level. Since this situation has the potential to allow for the migration of contaminants off-site, it is unacceptable. While it is not practical to quantify total suspended particulates on a real-time basis, it is appropriate to rely on visual observation. If dust is observed leaving the working site, additional dust suppression techniques must be employed. Activities that have a high dusting potential-such as solidification and treatment involving materials like kiln dust and lime--will require the need for special measures to be considered.

7. The following techniques have been shown to be effective for the controlling of the generation and migration of dust during construction activities:

- (a) Applying water on haul roads;
- (b) Wetting equipment and excavation faces;
- (c) Spraying water on buckets during excavation and dumping;
- (d) Hauling materials in properly tarped or watertight containers;
- (e) Restricting vehicle speeds to 10 mph;
- (f) Covering excavated areas and material after excavation activity ceases; and
- (g) Reducing the excavation size and/or number of excavations.

Experience has shown that the chance of exceeding the 150ug/m3 action level is remote when the above-mentioned techniques are used. When techniques involving water application are used, care must be taken not to use excess water, which can result in unacceptably wet conditions. Using atomizing sprays will prevent overly wet conditions, conserve water, and provide an effective means of suppressing the fugitive dust.

8. The evaluation of weather conditions is necessary for proper fugitive dust control. When extreme wind conditions make dust control ineffective, as a last resort remedial actions may need to be suspended. There may be situations that require fugitive dust suppression and particulate monitoring requirements with action levels more stringent than those provided above. Under some circumstances, the contaminant concentration and/or toxicity may require additional monitoring to protect site personnel and the public. Additional integrated sampling and chemical analysis of the dust may also be in order. This must be evaluated when a health and safety plan is developed and when appropriate suppression and monitoring requirements are established for protection of health and the environment.