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

September 30, 2022

Mr. Brian Miller
Rochester Steel Treating Works Inc.
962 East Main Street
Rochester, NY 14605

Re: Interim Investigation Report
Rochester Steel Treating Works, Site No. C828210
East Main Street, Rochester, New York

Dear Mr. Miller;

The New York State Departments of Environmental Conservation (NYSDEC) and Health (collectively referred to as the Departments) have completed their review of the document entitled *"Interim Investigation Report"* (the Report) received December 2021 and prepared by Day Environmental, Inc. for the Rochester Steel Treating Works site.

Section 1.3 should state that TCE is no longer being used to clean parts and an alternative to the TCE degreaser has been chosen as a substitute. Please include this information in documents going forward.

Additionally, the NYSDEC has determined that an off-site investigation of overburden and bedrock groundwater to the north and east of the site is necessary to determine extent of contamination. As a participant in the brownfield cleanup program, you are required to determine the extent and magnitude of off-site contamination. Please submit a work plan and a schedule for the off-site investigation by November 30, 2022.

Please contact me at (585) 226-5459 or tasha.mumbrue@dec.ny.gov if you have any questions or would like to schedule a meeting or conference call to discuss the investigation.

Sincerely,

Tasha H Mumbrue

Tasha Mumbrue
Assistant Geologist

ec: Heather McLennan, Day Environmental, Inc.
David Day, Day Environmental, Inc.

Paul Sylvestri, Harter Secrest & Emery LLP
David Pratt, NYSDEC
Todd Caffoe, NYSDEC
Dudley Loew, NYSDEC
Steven Berninger, NYSDOH
Justin Deming, NYSDOH

INTERIM INVESTIGATION REPORT

ROCHESTER STEEL TREATING WORKS
962, 966 AND 972-974 EAST MAIN STREET
ROCHESTER, NEW YORK
NYSDEC SITE NUMBER: C828210

Prepared For:	Rochester Steel Treating Works Incorporated 962 East Main Street Rochester, New York 14605
Prepared By:	Day Environmental, Inc. 1563 Lyell Avenue Rochester, New York 14606
Project No.	5491R-18
Date:	December 9, 2021

Table of Contents

FIGURES

TABLES

APPENDICES

1.0 INTRODUCTION

This Interim Investigation Report (IIR), prepared by Day Environmental, Inc. (DAY) on behalf of Rochester Steel Treating Works Incorporated (RSTW), describes studies conducted to date to assess environmental conditions at the property addressed 962, 966, and 972-974 East Main Street, City of Rochester, Monroe County, New York (hereinafter referred to as the "Site").

Studies described in the IIR were completed under the New York State (NYS) Brownfield Cleanup Program (BCP) administered by New York State Department of Environmental Conservation (NYSDEC) in accordance with Brownfield Cleanup Agreement (BCA) Index # C828210, which was executed on December 7, 2018. As outlined in the BCA, RSTW is a Participant with respect to the requirements of the BCP.

RSTW has occupied the Site since the 1950s to operate an industrial facility that treats steel (i.e., anneals, hardens, straightens, etc.). A Project Locus map showing the location of the Site is included as Figure 1 and a Site Plan showing various Site features, and the locations of test borings/monitoring wells and other samples collected to date, is included as Figure 2.

1.1 Purpose of Report

The purpose of this report is to provide an understanding of the environmental condition of the Site pursuant to the preparation of a Remedial Investigation and Alternatives Assessment (RI/AA) report and development of potential remedial options to address impacts identified.

1.2 Standards, Criteria and Guidance Values

Applicable standards, criteria, and guidance (SCG) values that were used for this project are outlined below:

- Appropriate Soil Cleanup Objectives (SCO) and other guidance as set forth in 6 NYCRR Part 375-2 Inactive Hazardous Waste Disposal Program dated December 14, 2006.

- Appropriate Soil Cleanup Levels (SCL) and other guidance as set forth in NYSDEC CP-51 Soil Cleanup Guidance dated October 21, 2010.

- Guidelines referenced in the NYSDEC document titled "DER-10 Technical Guidance for Site Investigation and Remediation" dated May 10, 2010.

- Appropriate water quality standards and guidance values (WQS/GV) as set forth in the NYSDEC Division of Water Technical and Operational Guidance Series (1.1.1) document titled "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" dated June 1998, and amended by a January 1999 Errata Sheet, an April 2000 Addendum, and a June 2004 Addendum (TOGS 1.1.1).

- Monroe County Sewer Use Permit Requirements.

- Guidance and standards as set for the New York State Department of Health (NYSDOH) document titled "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" dated October 2006 (NYSDOH Guidance Document).

1.3 Site Description

As shown on Figure 1, the Site is located on East Main Street in Rochester, New York and it consists of the three parcels identified below.

1. 962 East Main Street
   Tax Map Parcel ID 106.75-1-6.001

2. 966 East Main Street
   Tax Map Parcel ID 106.75-1-7.001

3. 972-974 East Main Street
   Tax Map Parcel ID 106.75-1-8.001

These three parcels cover approximately 0.63 acres of land, and current features of the Site include:

- **Building:** One approximate 15,000 square foot one-and two-story building constructed in the 1920s with additions in 1962, 1976, and 1988 is located on the Site. An office area is located in the southeast portion of the building, and steel treating areas are located in the remainder of the building. Truck bays are located on the western portion of the building. The floor of the approximate 850 square foot (ft^2) office area is approximately eight feet (ft.) higher than the steel treating areas of the building. These areas are connected by a stairway.

- **Storage Area:** A storage area is located north of the building. This approximate 2,000 ft^2 area and is paved with concrete, and a 150 ft^2 storage shed used for storage of nuts, bolts, screws, and salt for de-icing is located in this area.

- **Parking Lot:** An asphalt-paved parking area is located south of the building, and an asphalt-paved access drive is located west of the building. The combined area of asphalt pavement is approximately 11,000 ft^2.

- **Vegetation:** There is one approximate 65 ft^2 grass-covered area located on the northern portion of the Site. [Note: An approximate 45 ft^2 exterior concrete pad that extends to the building is located south of this grass-covered area.]

- **Topography:** The Site slopes down to the north from an elevation around 502 ft. above mean sea level (amsl) near the southeast border of the Site with East Main Street to an elevation around 490 ft. amsl, located along the northern property boundary.

1.4 Site History

Based on information obtained from plat maps, Sanborn Fire Insurance (Sanborn) maps, and historic city directories, a variety of residential, commercial, and industrial activities have been conducted on the Site since at least 1875. Copies of Sanborn maps dated 1911, 1950, and 1971 overlain on a current aerial photograph of the Site are included in Appendix A. Various uses and activities that have been documented at the Site are summarized below:

- Apparent residential buildings are shown in plat maps dated 1875 and 1888.

- A plat map dated 1888 shows a coal yard on the northeast portion of the Site.

- A Sanborn map dated 1911 (refer to Appendix A) identifies the Site as the W.G. Bell Planing Mill. Improvements shown on the Site include "Shav'gs ho" (i.e., shaving house), "Shavings Vault", "Dry Kiln", "Planing Mill", "Eng", "Lumber Shed", "Doors and Windows Ware Ho", and "Coal Shed" are located on the north portion of the Site. In addition, a dwelling, two stores, and a saloon are located on the Site along East Main Street, and a shed/barn is located south of the coal shed (i.e., the eastern portion of the Site).

- A Sanborn map dated 1918 identifies the Site as the W.G. Bell Planing Mill. Various buildings (described above) are depicted on the Site.

- The Sanborn map dated 1950 (refer to Appendix A) depicts buildings on the Site with the designations "Auto Painting Lacquer Spraying", "Wash Room", "Machine Shop", "Boiler Room", "Auto Repair", and "Shed". In addition, two restaurants and a concrete block building of unidentified use are shown on the Sanborn map.

- As shown on the map included in Appendix A, the Sanborn map dated 1971 depicts buildings on the Site with the designations “Stge” (i.e., Storage) and “Heat Treating”. In addition, two offices, a restaurant with a connected auto garage, and a connected concrete block building of unidentified use, are shown on the southern portion of the Site.

- City directory listings of the Site indicate that the following operations have been located at the Site:

    - 962 East Main Street was occupied by industrial facilities from at least 1923 until 2011 (e.g., Bell Wm G, planning mill in 1923; Freer AC Co., Inc., auto repairs from at least 1926 until at least 1956; Bloss Raymond, auto painters in at least 1936; and, Rochester Steel Treating Works from 1956 until 2011).

    - 966, 970, 972, and 974 East Main Street were occupied by various restaurants, saloons (e.g., Sutter’s Mill tavern located at 974 East Main Street), barbers (e.g., barber located at 966 East Main Street), and a beauty shop from at least 1923 to 1984.

    - In at least 1946, ‘Halaby Saml A. Co., insecticides’ was located at 968-970 East Main Street; in at least 1956, ‘DiLalla A & Co., plmb’ was located at 970 East Main Street; in at least 1966, ‘Gupp Sign Co., Inc.’ was located at 970 East Main Street; and, in at least 1946, ‘Feasler Arlington B, printer’ was located at 974 East Main Street.

Reportedly, two vapor degreasers that used a trichloroethene (TCE)-based solvent were operated at the Site beginning in at least 1959 until 2019.

- From 1959 until 1972, a TCE degreaser was located in the southern central portion of the manufacturing area (refer to Figure 2). This TCE degreaser was reportedly located in a 3 to 4 ft. deep pit. An associated TCE aboveground storage tank (AST) was reportedly located approximately 20 ft. south of this TCE degreaser. The TCE AST reportedly provided TCE to the TCE degreaser through overhead piping. [Note: The TCE AST and TCE degreaser described above are referred to in this document as the ‘historic TCE AST’ and/or ‘historic TCE degreaser’.]

- Subsequent to the reported removal of the historic TCE degreaser and historic TCE AST in 1972, a new TCE degreaser and TCE ASTs were installed on the western interior and exterior portion of the building, respectively (refer to Figure 2 for the approximate location). Until June 18, 2018, two 110-gallon TCE ASTs were located on the western exterior of the building. On June 18, 2018, these two 110-gallon TCE ASTs were drained and removed, and one 175-gallon TCE AST was installed in the same location as the two 110-gallon TCE ASTs. The 175-gallon TCE degreaser and TCE AST were removed from the Site in May 2019. [Note: The TCE degreaser described above is referred to as the 'former TCE degreaser' in this document.]

Four NYSDEC Spills are listed for the Site:

- Closed Spill #8589988 was reported on January 18, 1985. The NYSDEC Spill Report Form (SRF) states, "Indoor spillage from storage of 60 lbs of cyanide salts in bldg.., outdoor spillage due to illegal burial of 60 lbs of cyan-ide [sic] under slag and storage of cyanide salts & 7 barrels of contaminated oil…Violations and legal action: Minimal spillage – awaiting Beci Search warrant…Containment Action: None at this point, diked by Conrail RR tracks…Forward info to DSHW (Department of Solid and Hazardous Waste)…" This spill was closed on June 1, 1986.

- Closed Spill #8503403 was reported on December 29, 1985. The SRF states, "A heater that was repaired by electricians on Sat. was left on. Pressure inside the anhydrous ammonia tank built up until valve was ruptured. Extent of spill: anhydrous ammonia discharged to the air through a pressure relief valve on the storage tank…no further action necessary…" This spill was closed on June 1, 1986.

- Closed Spill #8604022 was reported on September 20, 1986. The SRF states, "Cause was broken rupture disk…Air Products, Inc. personnel shut off valve. A portion of Main Street was closed as a precaution…" The SRF indicates that the material spilled was liquid nitrogen. This spill was closed on March 31, 1998.

- Inactive Spill #1006842 was reported on September 24, 2010. The SRF states, "Caller advised approximately 2 gallons of TCE spilled from commercial vehicle. Caller also advised that substance has been cleaned up…Spill occurred as a result of drum falling off of tailgate to paved parking lot…cleaned up with pads…no further action necessary." This spill was assigned an inactive status on September 30, 2010.

1.5 Previous Environmental Studies

Prior to entering the BCP, several environmental studies were undertaken at the Site. This section describes these studies and relative findings.

1.5.1 Phase I Environmental Site Assessment

DAY prepared a draft Phase I Environmental Site Assessment (Phase I ESA) report for the Site dated June 13, 2016 that identified the two Recognized Environmental Conditions (RECs) listed below:

<u>REC #1 - Current and Former Uses of the Site</u>

- TCE ASTs located on the western exterior of the building on the Site. [Note: At the time of the Phase I ESA (i.e., 2016) two 110-gallon TCE ASTs were located on the western exterior of the Site building. On June 18, 2018, these two 110-gallon TCE ASTs were removed and replaced with one 175-gallon TCE AST. The 175-gallon TCE AST was removed in May 2019.] In addition, a TCE degreaser was located in the southwest interior of the building, and a TCE degreaser was reportedly formerly located east of the current TCE degreaser. [Note: The TCE degreaser referenced in the 2016 Phase I ESA was removed in May 2019 (refer to Section 1.4).]

- Hazardous waste, including TCE, that was generated and stored within a 90-Day Storage Area located in the northwestern portion of the building at the Site.

- Various tanks containing quench oil located throughout the building at the Site, including a tank that is located partially below the concrete floor of the western portion of the building.

- Various spills and stains (assumed to be petroleum in nature) that were observed on the concrete floor areas in the locations of the vacuum furnaces in the eastern portion of the building at the Site. The spills were reportedly related to leakage of a pumping system in the vacuum furnace that collects evaporated oil.

- An apparently concrete filled crock located in the southern portion of the building at the Site. In addition, floor drains were formerly present in an area of the building that reportedly discharged to the sanitary sewer system. The concrete filled crock and the former floor drains are/were located in a portion of the building where discharges of waste material could have occurred in the past. [Note: The crock was opened subsequent to the Phase I ESA, and liquid (e.g., water) and a possible discharge pipe were observed in the crock (i.e., the crock is not "concrete filled").]

- A catch basin and trench drain located on the western exterior side of the building at the Site (i.e., located in proximity to the TCE ASTs). The trench drain reportedly discharges to the sanitary sewer.
- The Site was identified as an active large quantity RCRA Generator of hazardous waste, and a NYSDEC Chemical Bulk Storage Facility (CBS). In addition, the Site was identified in the Federal Underground Storage Tank (UST) database, and as a NYSDEC Spill/Leaking Storage Tank (LST) site (refer to Section 1.4 for a summary of closed/inactive Spills located at the Site).
- Fill material that was reportedly used to backfill the basement of a former hotel on the southeast portion of the Site that was demolished. It was also reported that fill material was likely brought to the Site to raise the grade of the southern portion of the Site during construction of the bridge that is located to the southeast of the Site. Information was not available/obtained regarding the source or the type of the fill material.
- A review of historical resources that indicates that the Site was formerly improved by/used as a coal yard/coal shed, a planing mill, for auto repair (including auto painting), an insecticide company, a sign company, and a printer.

<u>REC #2 - Historical Use/Regulatory Listings of the Adjoining Property to the South/Southwest</u>

Staub Textile Services Inc. located at 951 East Main Street adjoins the Site to the south and southwest across East Main Street (i.e., an assumed hydraulically upgradient location relative to the Site). This adjoining property was an active large quantity RCRA Generator of hazardous waste, a NYSDEC Inactive Hazardous Waste Disposal Site (IHWDS), a NYSDEC Petroleum Bulk Storage (PBS) facility, a NYSDEC CBS facility, a NYSDEC BCP Site, a Federal UST facility, and a NYSDEC Spill/LST site. The NYSDEC Site Record regarding the IHWDS listing of the Staub Textile Services Inc. site states, “This site has a 70-year history of use as an industrial laundry and dry cleaning service. The primary contaminant of concern at the site is tetrachloroethene (PCE). PCE (9470) detected in soil samples collected at the southern part of the site, substantially exceed NYS Class GA groundwater standard of 5 ppb for both PCE and TCE.” Based on the above considerations, the Staub Textile Services Inc. (Staub) site was identified as a REC (refer to Section 3.5 for additional information regarding this property). [Note: Remediation has been completed at the Staub site, including the removal of six underground storage tanks (USTs) and the closure-in-place of one UST; the installation and subsequent removal of a soil vapor extraction (SVE) system; the installation of an upgraded SVE system; and, soil excavation and off-site disposal. The remediation completed did not specifically address groundwater contamination.]

1.5.2 Phase II Environmental Studies

Prior to entry into the BCP, various environmental studies were completed at the Site to evaluate environmental conditions. The studies completed and the findings of these studies are discussed in this section.

Black Oxide Pipe Evaluation: September 2016

In September 2016, DAY completed an evaluation of shallow soil/fill in the former location of the black oxide line at the Site. [Note: The black oxide line was located in the northeastern portion of the Site from 1989 until 2016, and it was used to add a black coating to stainless steel pieces.] As part of this evaluation, DAY representatives advanced four test borings (designated TB-01 through TB-04, refer to Figure 2) in the area of the black oxide line using hand-operated Geoprobe Systems sampling equipment. These test borings were advanced to a maximum depth of eight feet (ft.) below ground surface (bgs) beneath the reported former location of the black oxide tank, the former location of an acid tank, the former location of an oil tank, and adjacent to a discharge pipe to the sanitary sewer. Soil/fill samples collected during the advancement of the test borings were observed for evidence of apparent contamination (e.g., odors, staining, free product), and screened with a photoionization detector (PID). Select soil samples collected from the test borings were submitted to Spectrum Eurofins Analytical (Eurofins) for testing for the parameters identified below. Eurofins is a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-certified analytical laboratory.

- Target Compound List (TCL) Volatile Organic Compounds (VOCs) via United States Environmental Protection Agency (USEPA) Method 8260

- Polycyclic Aromatic Hydrocarbons (PAHs)/New York (NY) STARS list Semi-Volatile Organic Compounds (SVOCs) via USEPA Method 8270

- Resource Conservation and Recovery Act (RCRA) Metals via USEPA Method 6010/7471

- Polychlorinated Biphenyls (PCBs) via USEPA Method 8082

- pH

The concentrations of VOCs, SVOCs, and PCBs, in the soil samples tested did not have exceedances of the Unrestricted Use Soil Cleanup Objectives (USCO), restricted Industrial Use Soil Cleanup Objectives (ISCO), or Protection of Groundwater Use Soil Cleanup Objectives (PGWSCO) referenced in 6 NYCRR Part 375-2 Inactive Hazardous Waste Disposal Program dated December 14, 2006 or of the Soil Cleanup Levels (SCL) referenced in NYSDEC document title "CP-51 Soil Cleanup Guidance" dated October 21, 2010. Except for the detected concentrations of barium, mercury, and lead in soil sample TB-03(0-4) that exceeded the USCO, the detected concentrations of metals were below the USCO, ISCO, and PGWSCO.

Phase II Environmental Studies: February/March 2018

In February and March 2018, DAY completed the following tasks as part of Phase II Environmental Studies.

- Review of available records, observation of storm water drainage structures (i.e., trench drain and catch basin), and dye testing in the trench drain and catch basin located on the western portion of the Site (i.e., near the former TCE ASTs) in an attempt to identify discharge locations.

- Retention of a drilling subcontractor to advance 16 test borings (designated TB-1 through TB-16) in the locations shown on Figure 2 using direct-push sampling methods to evaluate the RECs identified in the Phase I ESA report. Note: Copies of the test boring logs for TB-1 through TB-16 are included in Appendix B.

- Completion of seven of the test borings as one-inch inner diameter groundwater monitoring wells designated MW-A through MW-G (refer to Figure 2). Copies of the monitoring well installation logs for MW-A through MW-G are included in Appendix B.

- Development of the monitoring wells using a peristaltic pump and dedicated disposable tubing, and subsequent sampling of the wells using dedicated disposable bailers.

- Installation of a soil-vapor sampling point (i.e., designated VP-1) on the southern portion of the Site (refer to Figure 2).

- Submittal of soil and groundwater samples to ALS Group USA, Corp. dba ALS Environmental of Rochester, NY (ALS) for testing of the parameters identified below. ALS is a NYSDOH ELAP-certified laboratory.

- TCL and CP-51 List VOCs via USEPA Method 8260
- TCL and CP-51 List SVOCs via USEPA Method 8270
- RCRA Metals via USEPA Method 6010/7471
- PCBs via USEPA Method 8082
- pH

[Note: A soil vapor sample was not collected from soil vapor point VP-1 as part of the 2018 activities.]

- Completion of an elevation survey of the newly installed monitoring wells.

<u>Analytical Laboratory Results: Soil/Fill Samples</u>

The concentrations of constituents detected in the soil/fill samples tested as part of the February/March 2018 studies are included in the summary tables included in this report. The concentrations measured in the subsurface soil/fill samples tested that exceeded PGWSCO are included in Figure 3A. The concentrations detected in groundwater samples tested that exceed TOGS 1.1.1 Standards or Guidance values are included in Figure 3B.

VOCs

Various VOCs were detected in each of the 14 soil/fill samples tested. The concentrations of VOCs detected in samples TB-2(2-3), TB-6(10-11), TB-7(14-15), TB-12(6-7), TB-13(24-25), TB-14 (14-15), TB-15 (5-6) and TB-16 (14-15) were below the USCO, ISCO, PGWSCO, and SCL. The other soil/fill samples tested [i.e., TB-1(6-7), TB-1(13-14), TB-4(15-16), TB-5(9-10), and TB-9(12-13)] contained concentrations of chlorinated volatile organic compounds (CVOC) including TCE, cis-1,2-DCE, and/or vinyl chloride that exceeded SCO. Additional information regarding the chlorinated volatile organic compounds (CVOC) measured in the samples tested is provided below.

- TCE was detected in 13 of the 14 soil/fill samples tested. The concentrations of TCE ranged from non-detect [i.e., TB-13(24-25)] to 280 ppm [i.e., TB-1(13-14)]. The detected concentrations of TCE in samples TB-1(6-7), TB-1(13-14), TB-4(15-16), TB-8(2.5-3.5), and TB-9(12-13) exceeded the USCO and the PGWSCO, but were below the ISCO.

- Cis-1,2-DCE was detected in eight of the 14 soil/fill samples tested. The concentrations of cis-1,2-DCE ranged from non-detect to 11 ppm [i.e., TB-9(12-13)]. The detected concentrations of cis-1,2-DCE in samples TB-1(6-7), TB-1(13-14), TB-4(15-16), TB-5(9-10), and TB-9(12-13) exceeded the USCO and the PGWSCO, but were below the ISCO.

- Vinyl chloride was detected in two of the 14 soil/fill samples tested. The concentrations of vinyl chloride ranged from non-detect to 1.3 ppm [i.e., TB-9(12-13)]. The detected concentrations of vinyl chloride in samples TB-5(9-10), and TB-9(12-13) exceeded the USCO and the PGWSCO, but were below the ISCO.

SVOCs

Concentrations of various SVOCs were detected in five of the seven soil/fill samples tested. The concentrations of various detected SVOCs (e.g., acenaphthene, anthracene, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene, and/or pyrene) in soil/fill samples TB-5(2-3) and TB-10(7-8) exceeded one or more of the USCO, ISCO, PGWSCO, and SCL.

Metals and pH

Various metals were detected in each of the six soil/fill samples tested. The concentration of mercury and lead in sample TB-10(7-8) exceeded USCO, but were below the PGWSCO and ISCO. The concentrations of metals detected in the other samples tested were below SCO. The pH ranged from 7.99 [TB-6(5-6)] to 8.94 [TB-14(3.5-4.5)] in the five soil/fill samples tested.

<u>Analytical Laboratory Results: Groundwater Samples</u>

VOCs

Various VOCs were detected in each of the seven groundwater samples tested. The concentrations of VOCs detected in samples MW-D and MW-F were below the TOGS 1.1.1 Standards and Guidance Values. The concentration of 1,2,4-trimethylbenzene in the sample collected from MW-A and the concentration of chloroform in the samples collected from MW-F exceeded the TOGS 1.1.1 standards. As described below, the five groundwater samples tested [i.e., MW-A, MW-B, MW-C, MW-E, and MW-G] contained concentrations of one or more CVOC (i.e., TCE, cis-1,2-DCE, trans-1,2-DCE, and/or vinyl chloride) that exceeded TOGS 1.1.1 standards.

- TCE was detected in six of the seven groundwater samples tested. The concentrations of TCE ranged from non-detect (MW-E) to 95,000 ppb (MW-A). The detected concentrations of TCE in four of these six samples exceeded the TOGS 1.1.1 Standard of 5 ppb.

- Cis-1,2-DCE was detected in each of the seven groundwater samples tested. The concentrations of cis-1,2-DCE ranged from 0.79 ppb (MW-F) to 43,000 ppb (MW-A). The detected concentrations of cis-1,2-DCE in four of these seven samples exceeded the TOGS 1.1.1 Standard of 5 ppb.

- Trans-1,2-DCE was detected in three of the seven groundwater samples tested. The concentrations of trans-1,2-DCE ranged from non-detect to 260 ppb (MW-A). The detected concentrations of trans-1,2-DCE in one of these three samples exceeded the TOGS 1.1.1 Standard of 5 ppb.

- Vinyl chloride was detected in four of the seven groundwater samples tested. The concentrations of vinyl chloride ranged from non-detect to 2,200 ppb (MW-A). The detected concentrations of vinyl chloride in three of these four samples exceeded the TOGS 1.1.1 Standard of 2 ppb.

SVOCs

SVOCs were detected in the one groundwater sample tested at concentrations less than the TOGS 1.1.1 Standard.

Metals

Various metals were detected in the three groundwater samples tested. The concentration of lead in groundwater samples MW-C, MW-F, and MW-G and the concentration of mercury in groundwater sample MW-C exceeded TOGS 1.1.1 standards.

Phase II Environmental Studies: June 2018

Following the removal of the two 110-gallon TCE ASTs and the secondary containment tank in June 2018, three test borings (designated TB-17 through TB-19) were advanced near the concrete pad that was observed below the former location of the secondary containment tank, and one temporary groundwater monitoring well (designated as MW-H) was installed in test boring TB-19 (i.e., a 10-foot length of slotted PVC screen with PVC riser). Approximately two gallons of water was purged from MW-H, and then a water sample was collected using a dedicated disposable bailer. Two soil samples and one groundwater sample were then submitted to Eurofins Spectrum Analytical, Inc. (Eurofins), a NYSDOH ELAP-certified analytical laboratory for select testing of the parameters identified below.

- TCL and CP-51 List VOCs via USEPA Method 8260
- TCL and CP-51 List SVOCs via USEPA Method 8270
- Target Analyte List (TAL) Metals via USEPA Method 6010/6020/7196/7199/9056A
- Cyanide

VOCs were detected in the soil sample tested at concentrations below USCO, ISCO, and PGWSCO. SVOCs were detected in the soil sample tested at concentrations below USCO, ISCO, and PGWSCO. The concentrations of copper and zinc in the soil sample tested exceeded USCO; other metals and cyanide detected were below USCO, ISCO, and PGWSCO.

TCE was detected in the groundwater sample collected at a concentration (5,700 ppb) that exceeded the TOGS 1.1.1 standard of 5 ppb; cis-1,2-DCE was detected in the groundwater sample collected at a concentration (84,000 ppb) that exceeded the TOGS 1.1.1 standard of 5 ppb; trans-1,2-DCE was detected in the groundwater sample collected at a concentration (19 ppb) that exceeded the TOGS 1.1.1 standard of 5 ppb; and, vinyl chloride was detected in the groundwater sample collected at a concentration (19 ppb) that exceeded the TOGS 1.1.1 Standard of 2 ppb.

2.0 REMEDIAL INVESTIGATION ACTIVITIES

As described in Section 1.0, RSTW entered the BCP as a Participant on December 7, 2018 (Index # C828210). Pursuant to the requirements of the BCP, a RI/AA work plan dated December 19, 2018 was prepared by DAY. The NYSDEC approved this initial RI/AA Work Plan, subject to modifications outlined in a letter dated January 23, 2019. The NYSDEC approved a Supplemental Remedial Investigation Work Plan prepared by DAY dated June 3, 2019 in an approval letter dated June 5, 2019. A second Supplemental RI Work Plan dated July 26, 2019 was approved by the NYSDEC in a letter dated August 26, 2019. A Soil Vapor Intrusion (SVI) Evaluation Work Plan dated December 2019 was approved by the NYSDEC in a letter dated January 28, 2020. A limited groundwater sampling event was approved by the NYSDEC in an email dated March 5, 2020. Supplemental RI Work Plan #3 dated January 29, 2021 was conditionally approved by the NYSDEC in a letter dated May 14, 2021.

The RI activities completed to date during the completion of the work plans, and sampling events described above, are discussed below. A summary of the sample designations, locations, dates, applicable depth interval, and test parameters collected during these studies is presented on Table 1.

2.1 Utility Assessment

DAY evaluated active and former utility infrastructure at, and around, the Site to assess potential preferential contamination pathways. Specifically, publicly available City of Rochester and utility company records were obtained, reviewed, and verified with field observations in order to identify utilities on and immediately off the Site, including buried sewer systems (e.g., storm, sanitary or combined), electric lines, natural gas lines, water delivery lines, etc. The utilities identified are shown on Figure 4.

On February 5, 2019, DAY representatives completed dye testing of the interior concrete crock located in the southeast portion of the building, capped floor drains located by furnaces in the east portion of the building, sanitary discharge, and an exterior catch basin located south of the transformer located on the southern exterior of the Site. [Note: Dye testing of the exterior trench drain, catch basin on the western portion of the building, and the floor drain in shipping/receiving was completed during the 2018 Phase II ESA.]

On March 21, 2019, a DAY representative and a plumber completed additional dye testing and additional drain tracing using a sonde and a camera. A camera was inserted into the concrete crock on the southeastern portion of the Site building, a sonde (i.e., a transmitter on a cable that allows tracing of non-metal piping) was inserted into a capped floor drain located on the eastern side of the building (i.e., behind furnace V-1, refer to Figure 4) to identify the drainage location of a pipe observed behind the V-4 control panel. A DAY representative scanned various locations with a MiniRAE 3000 photoionization detector (PID) equipped with a 10.6 eV lamp. The results of this PID screening are included on Figure 4.

On November 29, 2021, DAY representatives completed additional testing of a three-inch diameter and a four-inch diameter pipe located on the east side of the building, the pipe located behind the V-4 control panel, the floor drain located east of furnace V-7, the capped behind floor drain east of furnace V-6, the catch basin in shipping and receiving, the exterior catch basin located south of the shipping/receiving area. Specifically, water was added using a garden hose to these locations and the cleanout in the north locker room was observed so the water flow could be determined. In addition, observations were made of the floor drain west of furnace V-2, the trench drain, and a cleanout located on the northeastern exterior.

The findings of the drain tracing described above are summarized on the "Notes" included on Figure 4.

2.2 Soil/Fill Characterization

Soil/fill samples were collected and submitted for analytical laboratory testing at various times during the RI studies completed to date. This section describes the samples collected and the testing completed. The soil/fill samples were submitted to ALS Group USA, Corp. dba ALS Environmental of Rochester, NY (ALS) for laboratory analysis. ALS is a NYSDOH ELAP-certified laboratory.

2.2.1 Surface Soil/Fill Samples

On March 27, 2019, DAY representatives collected surface soil samples from four locations (designated SS-1 through SS-4) in locations at the Site that were not covered by pavement or structures (refer to Figure 2) in order to characterize surface soil in relation to possible human health exposure (i.e., the 0 to 2-inch bgs interval) and characterize historic fill material (HFM) (i.e., the 0 to 1 ft. bgs interval). [Note: Soil sample SS-2 was located within an apparent cleanout (i.e., an approximate 18-inch diameter black plastic pipe surrounding an apparent sewer cleanout) located on the northern exterior of the building.] The surface soil samples were collected using a post-hole shovel and/or round-headed shovel, which were decontaminated prior to collection of each sample using brushes, Alconox detergent, and tap water. Evidence of apparent HFM was observed at sample location SS-1, so the depth of this sample was increased from 1.0 ft. bgs to 3.4 ft. bgs to extend through the apparent HFM; soil sample SS-2 encountered equipment refusal at 0.5 ft bgs; and, soil samples SS-3 and SS-4 were terminated at 1.0 ft. bgs. Representative portions of the surface soil samples collected on March 27, 2019 were retained for analytical laboratory testing.

On March 27, 2019, DAY representatives collected two additional surface soil samples (designated SS-5 and SS-6) from the area of the concrete pad containing an electrical transformer on the south portion of the Site. These samples terminated at 1.0 ft. bgs. [Note: Surface soil samples SS-3 and SS-4 were also located in the area of the concrete pad of the transformer, refer to Figure 2.] These surface soil samples were collected in a manner similar to the other surface samples.

The surface soil/fill samples collected were classified, logged, and screened with a PID, and subsequently submitted for analytical laboratory testing of the following parameters.

- Total Petroleum Hydrocarbons (TPH) gasoline range organics (GRO) and diesel range organics (DRO) using USEPA Method 8100: SS-1 (0.1), SS-1 (3.3), SS-2 (0.1), SS-3 (0.1), and SS-4 (0.1);
- TCL SVOCs plus TICs using USEPA Method 8270: SS-1 (0.1), SS-1 (3.3), SS-2 (0.1), SS-3 (0.1), and SS-4 (0.1);
- TAL Metals and cyanide: SS-1 (0.1), SS-1 (3.3), SS-2 (0.1), SS-3 (0.1), and SS-4 (0.1);
- Pesticides using USEPA Method 8081: SS-1 (0.1), SS-1 (3.3) SS-2 (0.1), SS-3 (0.1), and SS-4 (0.1); and
- PCBs using USEPA Method 8082A: SS-1 (0.1), SS-1 (3.3), SS-2 (0.1), SS-3 (0.1), SS-4 (0.1), SS-5 (0.5), and SS-6 (0.5)

Logs that summarize the observations and measurements made during the collection of surface samples are provided in Appendix B. Copies of the analytical laboratory reports and executed chain-of-custody documentation are available upon request.

2.2.2 Test Borings and Subsurface Soil/Fill Samples

Between February 7, 2019, and February 14, 2019, eight test borings (designated TB-20 through TB-28) were advanced in interior and exterior locations of the Site by Nothnagle Drilling, Inc. (Nothnagle) using a track-mounted Geoprobe 6620 direct-push drill rig. Each test boring was advanced until equipment refusal was encountered. The maximum test boring depth in the south portion of the Site was 23.5 ft. bgs (TB-21) and 18 ft. bgs in the central and north portion of the Site (TB-22 and TB-23, respectively). A concrete coring device was used to drill through the concrete floor slab prior to advancement of the interior test borings. Copies of test boring logs are provided in Appendix B, and the locations of the test borings are depicted on Figure 2.

Soil samples were collected in consecutive 4-foot intervals from the test borings using a Macrocore sampling device. The soil samples retained were classified, logged, screened with a PID, and the headspace above portions of the samples was also screened with a PID. Selected soil samples were also retained for testing by an analytical laboratory to confirm the field observation findings.

A total of 17 soil/fill samples from test borings TB-20 through TB-28 was selected and submitted for testing by ALS. The samples submitted for testing were selected using the following criteria.

- Evidence of apparent contamination (i.e., elevated PID readings, staining, odors, presence of NAPL, etc.);
- Proximity to subsurface structures of environmental concern such as utilities or other preferential pathways for contaminant migration; and/or
- Proximity to the bedrock/overburden interface.

The soil samples submitted for testing by an analytical laboratory and the tests completed on each sample are presented on Table 1. Copies of the analytical laboratory reports and executed chain-of-custody documentation for the above soil/fill samples are available upon request.

Between June 10, 2019, and June 14, 2019, two test borings (designated BRMW-3 and BRMW-4) were advanced in the locations shown on Figure 2. These test borings were advanced to equipment refusal using a Geoprobe 7822 direct-push drill rig operated by Nothnagle. A concrete coring device was used prior to advancement of the test borings.

Soil/fill samples were collected in continuous four-foot intervals from test borings BRMW-3 and BRMW-4 using a Macrocore sampling device. The samples collected were classified, logged, screened with a PID. Logs for test borings BRMW-3 and BRMW-4 are provided in Appendix B. [Note: Soil/fill samples from BRMW-3 and BRMW-4 were not submitted for analytical laboratory testing.]

On August 26, 2019, two test borings (designated TB-29 and TB-30) were advanced in the location of the former TCE degreaser (refer to Figure 2). These test borings were advanced to equipment refusal using a Geoprobe 420 direct-push drill rig operated by TREC Environmental, Inc. (TREC). A concrete coring device was used to drill through the concrete floor slab prior to advancement of each test boring. The maximum depth of refusal was 15 ft. bgs (TB-29). Logs for test borings TB-29 and TB-30 are provided in Appendix B, the locations of these test borings are depicted on Figure 2.

The samples collected from test borings TB-29 and TB-30 were classified, logged, screened with a PID. Soil samples TB-29 (4-8) and TB-30 (5-8) were retained for testing of TCL VOCs and TICs using USEPA Method 8260 by ALS. Copies of the analytical laboratory reports and executed chain-of-custody documentation for the above soil/fill samples are available upon request.

Between July 22, 2021 and July 26, 2021, five test borings (designated TB-31 through TB-34 and TB-34a) were advanced to equipment refusal in interior locations of the building using a Geoprobe 7822 direct-push drill rig operated by Nothnagle. A concrete coring device was used to core the concrete floor slab prior to advancement of each test boring. The maximum depth of refusal encountered in these test borings was 17.6 ft. bgs (TB-32).

Soil samples were collected from test borings TB-31 through TB-34a in continuous four-foot intervals using a Macrocore sampling device. Samples were classified, logged, screened with a PID. Samples from test borings TB-31 through TB-34 and TB-34a were not submitted for analytical laboratory testing. Logs for test boringsTB-31 through TB-34 are provided in Appendix B, and the locations of the test borings are depicted on Figure 2.

2.3 Groundwater Evaluation

The studies completed to date to assess groundwater conditions and groundwater quality at the Site; including potential off-site impacts migrating onto the Site, suspected preferential migration pathways along buried utilities, potential off-site migration of Site contaminants, and the vertical and lateral extent of impact are discussed in this section.

Groundwater samples were collected and submitted for analytical laboratory testing at various times during the studies completed to date. This section describes the samples collected and the testing completed. The groundwater samples collected in 2019 were submitted to ALS for laboratory analysis; the groundwater samples collected in 2020 and 2021 were submitted to Alpha Analytical, Inc. (Alpha). Alpha is a NYSDOH ELAP-certified laboratory.

2.3.1 Overburden Monitoring Well Installation

Between February 8, 2019 and February 14, 2019, Nothnagle installed six overburden monitoring wells (designated MW-I, MW-J, MW-K, MW-L, MW-M, and MW-N) at test boring locations TB-20, TB-21, TB-22, TB-23, TB-24, and TB-25, respectively. These wells were installed utilizing two-inch inside diameter (ID), Schedule 40 polyvinyl chloride (PVC) casing and screen materials. Each of these monitoring wells was constructed using a 10 ft. long No. 10 slot screen was installed starting at, or near, the bottom of the boring connected to flush-coupled solid PVC riser casing with a PVC cap that extended to or above the ground surface.

The annulus around, and at least one-foot above, each well screen was filled with a washed and graded silica sand pack. A minimum two-foot thick bentonite seal was placed above each sand pack. Portland cement grout was placed above each bentonite seal. The monitoring wells were completed with flush-mounted curb boxes that were placed over the wells and cemented in-place.

Construction diagrams for monitoring wells MW-I through MW-N are included in Appendix B. The locations of these eight overburden monitoring wells are shown on Figure 2.

On August 26, 2019, TREC installed one overburden monitoring well (designated as MW-O) at test boring location TB-30 (refer to Figure 2). Monitoring well MW-O was installed using a one-inch ID, Schedule 40 PVC casing and screen, with a 10 ft. long No. 10 slot screen installed at the bottom of the boring. The top of the threaded screen section was attached to a solid PVC riser casing with a PVC cap that extended to near the ground surface. The annulus around, and at least one-foot above, the well screen was filled with a washed and graded silica sand pack. A 2.5-foot thick bentonite seal was placed above the sand pack. MW-O was completed with a flush-mounted curb box that was cemented in place. A construction diagram for monitoring well MW-O is included in Appendix B.

Between July 22, 2021 and July 26, 2021, Nothnagle installed four overburden monitoring wells (designated MW-P, MW-Q, MW-R, and MW-S) at test boring locations TB-31, TB-32, TB-33, and TB-34, respectively. These wells were installed utilizing two-inch ID, Schedule 40 PVC casing and screen materials. Each well was installed using a 10 ft. long No. 10 slot screen placed at, or near, the bottom of each boring connected to flush-coupled solid PVC riser casing with a PVC cap that extended to or above the ground surface. [Note: Water and coarse sand under hydraulic pressure was encountered during the advancement of test boring TB-33 (monitoring well MW-R). Upon reaching a depth of approximately 14 ft. below the floor surface (around elevation 484 ft. amsl), the level of the groundwater within the hollow-stem augers reached the floor surface and sandy material within the hollow-stem auger was measured to approximately 2.5 ft. below the floor surface. The test boring was covered for three days, following which time, the water level receded allowing removal of the coarse sand from within the hollow-stem auger. Water and coarse sand under pressure was not observed during the time of the well installation (i.e., the hydraulic pressure initially observed had dissipated).]

The annulus around, and at least one-foot above, each well screen was filled with a washed and graded silica sand pack. A minimum two-foot thick bentonite seal was placed above each sand pack. Portland cement grout was placed above the bentonite seal. The monitoring wells were completed with flush-mounted curb boxes that were placed over the wells and cemented in-place.

Construction diagrams for monitoring wells MW-P through MW-S are included in Appendix B, and the locations of these four overburden monitoring wells are shown on Figure 2.

2.3.2 Bedrock Monitoring Wells

Between February 19, 2019, and February 22, 2019, two bedrock monitoring wells (designated BRMW-1 and BRMW-2) were installed at exterior locations of the Site using a 55-LC drill rig operated by Nothnagle. The locations of these two bedrock monitoring wells are shown on Figure 2. At each location, a macro-core and hollow stem auger [assumed 6.25-inch inner diameter (ID)] was used to advance the test boring from the surface to the top of apparent bedrock (i.e., auger refusal). Subsequently, a 2-foot by 5.875-inch rock socket was installed into competent bedrock using a tricone bit and a 4-inch diameter steel surface casing was grouted in place and allowed to set for a minimum of 12 hours. This cement/bentonite grout seal was tremied into the annulus between the borehole and 4-inch steel casing exterior to approximately one foot below grade. Following curing of the grout seal, a 3.875-inch size drill bit was used to core approximately 10 feet of rock from each location. The 4-inch steel risers were cut slightly below grade, and curb boxes were placed over each well and cemented in-place. Construction diagrams for monitoring wells BRMW-1 and BRMW-2 are included in Appendix B.

Between June 10, 2019 and June 14, 2019, bedrock monitoring wells BRMW-3 and BRMW-4 were installed at interior locations of the Site using a Geoprobe 7822 drill rig operated by Nothnagle. The locations of these bedrock monitoring wells are shown on Figure 2. These monitoring wells were constructed using procedures similar to those described for monitoring wells BRMW-1 and BRMW-2. Monitoring well construction diagrams for monitoring wells BRMW-3 and BRMW-4 are included in Appendix B.

Between July 20, 2021, and July 21, 2021, bedrock monitoring well BRMW-5 was installed in an interior location of the Site using a Geoprobe 7822 drill rig operated by Nothnagle. The location of this bedrock monitoring well is shown on Figure 2. This monitoring well was constructed similarly to the other bedrock monitoring wells installed at the Site. A construction diagram for monitoring well BRMW-5 is included in Appendix B.

2.3.3 Well Development

Between March 4, 2019, and March 7, 2019, bedrock and overburden monitoring wells MW-I through MW-N, BRMW-1, and BRMW-2 were developed in accordance with the protocol outlined in the QAPP of the RI/RAA Work Plan.

On June 26, 2019, bedrock monitoring wells BRMW-3 and BRMW-4 were developed in accordance with the protocol outlined in the RI/RAA Work Plan.

On August 28, 2019, overburden monitoring well MW-O was developed in accordance with the protocol outlined in the RI/RA Work Plan.

Between July 27, 2021 and August 4, 2021, overburden monitoring wells MW-P, MW-Q, MW-R, MW-S and bedrock monitoring well BRMW-5 were developed in accordance with the protocol outlined in the RI/RAA Work Plan.

Additional water was removed from well MW-N during well development due to the approximate 10 gallons of water that was added to the augers during the installation of that overburden monitoring well. No water was used or lost during drilling or well installation at the other overburden wells installed as part of the initial RI. Approximately 25 gallons of water was removed from well MW-R during well development to compensate for the water that was added during the installation of overburden monitoring well MW-R (i.e., approximately 45 gallons). Overburden monitoring well MW-R was pumped dry multiple times and additional development was also conducted using a surge block; however, water recovery during well development in this location was limited. The amount of potable water lost during drilling at bedrock monitoring wells and select overburden monitoring wells, and the amount of water removed from overburden and bedrock monitoring wells during well development are documented on Table 2. Logs summarizing the data generated during well development activities completed are included in Appendix C.

2.3.4 Groundwater Sampling and Testing

Two rounds of groundwater sampling/testing were completed as part of the initial RI. The first groundwater sampling event was undertaken in March 2019 and it included the collection of groundwater samples from overburden monitoring wells MW-A, MW-B, MW-C, MW-D, MW-E, MW-F, MW-G, MW-I, MW-J, MW-K, MW-L, MW-M, and MW-N; and bedrock monitoring wells BRMW-1 and BRMW-2. The second groundwater sampling event was undertaken in August 2019 and it included the collection of groundwater samples from overburden monitoring wells MW-A, MW-B, MW-C, MW-D, MW-E, MW-F, MW-G, MW-I, MW-J, MW-K, MW-L, MW-M, MW-N, and MW-O; and bedrock monitoring wells BRMW-1, BRMW-2, BRMW-3, and BRMW-4.

Prior to the collection of the groundwater samples, static water levels and measurements for LNAPL and DNAPL were obtained from each well using a Heron H.OIL Oil/Water interface probe (refer to Table 3 for static water level measurements). The groundwater samples collected during the March 2019 sample event were obtained using the low-flow purge and sample techniques outlined in the QAPP provided in the RI/AA Work Plan. During low-flow purging, water quality measurements were taken using a YSI DSS Pro water quality meter. Once water quality measurements stabilized at a well location, the water quality meter was disconnected and a groundwater sample was collected. Copies of low-flow purge and sample logs are included in Appendix D. With the exception of the sample collected from MW-O, the groundwater samples collected during the August 2019 sampling event were obtained using the passive diffusion bag (PDBs) sample technique as outlined in the RI/AA Work Plan. The sample from MW-O was collected using the low-flow purge and sample techniques outlined in the RI/AA Work Plan. [Note: LNAPL was not measured/observed during the March 2019 groundwater sampling event. A trace (i.e., 0.01 ft.) of LNAPL was observed in monitoring well MW-J on August 7, 2019. LNAPL was not detected in monitoring well MW-O during the August 2019 groundwater sampling event. However, the interface probe was observed to have an apparent sheen. Therefore, the upper two to three inches of the water column in monitoring well MW-O was removed with a dedicated bailer prior to commencement of low-flow groundwater sampling.]

The groundwater samples collected during the March 2019 groundwater sampling event were analyzed for the following parameters:

- TCL VOCs and TICs via USEPA Method 8260: Samples collected from monitoring wells MW-A, MW-B, MW-C, MW-D, MW-E, MW-F, MW-G, MW-I, MW-J, MW-K, MW-L, MW-M, MW-N, BRMW-1, and BRMW-2
- TCL SVOCs and TICs via USEPA Method 8270: Samples collected from monitoring wells MW-A, MW-L, MW-J, and MW-K.
- TAL Metals via USEPA Method 6010 and 7470: Samples collected from monitoring wells MW-A, MW-L, MW-J, and MW-K.
- Cyanide via USEPA Method 9012: Samples collected from monitoring wells MW-A, MW-C, MW-L, MW-I, MW-J, MW-K, MW-M, and MW-N.

In addition, a sample (designated 134-CS-1) of standing water in the concrete crock located in the southeast portion of the Site building was collected using a bladder pump. The sample collected from the concrete crock was submitted to ALS for testing of TCL VOCs and TICs via USEPA Method 8260, TAL Metals via USEPA Method 6010 and 7470, and Cyanide via USEPA Method 9012.

The groundwater samples collected during the August 2019 sample event were analyzed for TCL VOCs and TICs via USEPA Method 8260.

A limited groundwater sampling event was completed in April 2020, and it included the collection of groundwater samples from overburden monitoring wells MW-A, MW-B, MW-I, MW-K, MW-L, MW-N, and MW-O; and bedrock monitoring wells BRMW-3, and BRMW-4. These were collected using PDBs and delivered under chain-of-custody control to ALS for testing of TCL VOCs and TICs via USEPA Method 8260.

A groundwater sampling event was completed in August and September 2021 and included the collection of groundwater samples from overburden monitoring wells MW-A, MW-B, MW-C, MW-D, MW-E, MW-F, MW-G, MW-I, MW-J, MW-K, MW-L, MW-M, MW-N, MW-O, MW-P, MW-Q, MW-R, and MW-S; and bedrock monitoring wells BRMW-1, BRMW-2, BRMW-3, BRMW-4, and BRMW-5. Traces of LNAPL were observed in wells MW-O and BRMW-3. The groundwater samples were collected using PDBs and tested for TCL VOCs and TICs via USEPA Method 8260.

Copies of the data reports prepared by the analytical laboratory and executed chain-of-custody documentation for the groundwater samples tested to date are available upon request.

2.3.5 Hydraulic Conductivity Testing

Between October 6, 2021 and October 8, 2021, the hydraulic conductivity testing was completed in select monitoring wells using in-situ slug testing techniques. Slug tests were conducted by both inserting and removing a slug in monitoring wells MW-G, MW-I, MW-J, MW-K, MW-L, MW-N, MW-Q, MW-S, BRMW-1, BRMW-2, BRMW-3, and BRMW-4. Each slug test was conducted by instantaneously changing the water level in a monitoring well by the introduction ("slug in") and subsequent removal ("slug out") of a non-reactive solid and sealed PVC pipe, ("the slug"), and measuring the response to the changing water level over time. Removal of the slug was conducted only after the well had receded to 95% of the original measured static water level. The water level data was recorded using a Heron Dipperlog and imported to AqteSolv software to calculate hydraulic conductivities at each well (i.e., for both slug in/falling head and slug out/rising head tests). The slug test procedures are described in: Bouwer, H., 1989; "The Bouwer and Rice Slug Test-An Update", Groundwater, vol. 27, no. 3, pp. 304-309; and the original Bouwer, H and R.C. Rice 1976 article in the Water Resources Research Journal.

AqteSolv output graphs for each falling-head or rising-head test are included in Appendix E. Each graph shows the well parameters and falling-head or rising-head data and presents the calculated hydraulic conductivity for the specific test. The calculated hydraulic conductivities are also summarized on Table 4.

2.4 Soil Vapor Evaluation

Between February 8, 2019 and February 13, 2019, four soil vapor probes (designated VP-2 through VP-5) were installed in interior and exterior locations of the Site. [Note: Soil vapor probe VP-1 was installed in 2018 as part of the initial Phase II ESA activities.] Test borings were advanced using a track-mounted Geoprobe 6620 direct-push drill rig operated by Nothnagle. A concrete coring device was used in interior locations and in the location of VP-3, to advance through a concrete slab prior to advancement of the test boring. The test borings extended to approximately one foot above the top of the groundwater based upon conditions observed in nearby monitoring wells. After reaching the targeted depth, a soil vapor probe (e.g., a 6-inch long double woven stainless-steel screen attached to 3/8-inch Teflon lined tubing) was installed in the borehole at the targeted depth. Each borehole was backfilled with clean filter sand to a depth of at least 6 inches above the top of the soil vapor probe. Thereafter, the remaining borehole was backfilled with bentonite. A curb box was placed over each vapor probe and cemented in place. Soil vapor sample probe construction logs are provided in Appendix B, the locations of the soil vapor sample probes are depicted on Figure 2.

On April 10, 2019, the soil vapor sample probes (i.e., VP-1 through VP-5) were tested for potential surface air infiltration using a helium trace gas test in accordance with the provisions outlined in the NYSDOH guidance document. When the helium concentration measured in the soil vapor probe was below 10% of the enriched atmosphere as required by NYSDOH guidance, the soil vapor probes were purged of 3 volumes of air at a flow rate that did not exceed 0.2 liters per minute. Samples were collected using 6-liter Summa canisters equipped with 2-hour regulators. In addition to the soil vapor samples, one background outdoor air sample was collected approximately three feet off the ground from an upwind location, as determined at the time of sample collection during the same general 2-hour period. Copies of the soil vapor sampling logs are included in Appendix F. Following collection, the Summa canisters were transported under chain-of-custody control to ALS for laboratory testing of TO-15 VOCs. Copies of the data reports prepared by ALS and executed chain-of-custody documentation are available upon request.

2.5 Vapor Intrusion Evaluation

Between February 2, 2020 and February 25, 2020, DAY representatives completed a vapor intrusion evaluation within the building at the Site. This evaluation was done in accordance with applicable provisions outlined by the NYSDOH Guidance Document and as described in the Soil Vapor Intrusion Evaluation Work Plan dated December 2019. Prior to the vapor intrusion testing, a product inventory of the interior areas of the building was completed on February 2, 2020 and the results of the product inventory are provided in Appendix G.

On February 24, 2020, sub-slab soil vapor sampling probes were installed in the locations shown on Figure 2. Specifically, a small diameter hole (approximately 0.25-inches in diameter) was advanced through the building slab and approximately 2-inches into the subsurface. After drilling through the slab food grade quality tubing (i.e., polyethylene) that was slotted at the bottom was placed into the hole and extending above the floor surface. The annulus around the slotted tubing was backfilled with sand and a bentonite seal was installed above the sand pack extending to the floor surface.

Prior to sampling, the sub-slab soil vapor probes were tested for potential surface air infiltration using a helium tracer gas test in accordance with the provisions outlined in the NYSDOH guidance document. Following a successful test (i.e., when the helium concentration measured in the soil vapor probe was below 10% of the enriched atmosphere as required by NYSDOH guidance), the soil vapor probes were purged of 3 volumes of air at a flow rate that did not exceed 0.2 liters per minute.

On February 25, 2020, sub-slab soil vapor samples (designated SS-1 through SS-6) and adjacent indoor air samples (designated IA-1 through IA-6) were collected using 6-liter Summa canisters equipped with 8-hour regulators. The indoor air samples were collected approximately three to five feet above the ground surface in proximity of the corresponding sub-slab soil vapor probes. In addition to the soil vapor samples, one background outdoor air sample (designated BG) was collected from an upwind location (as determined at the time of sample collection) during the same general 8-hour period. The background outdoor air sample was collected using a 6-liter Summa canister that was placed approximately three feet off the ground at the time of sample collection. The vacuum readings were recorded at the start of the test and monitored throughout the test (refer to Appendix G). At the conclusion of the sampling, the tubing associated with the sub-slab soil vapor probes were removed and the resulting annulus was backfilled and capped with concrete. Additionally, a PID was used to screen the air space above the Summa canisters to establish background conditions prior to sampling and during the sampling event. Following collection, the Summa canisters were transported under chain-of-custody control to Alpha for laboratory testing of TO-15 VOCs. The data reports prepared by Alpha and Eurofins and executed chain-of-custody documentation are available upon request.

3.0 NATURE AND EXTENT OF IMPACT

This section presents the findings of the studies completed to date with respect to the nature and extent of environmental impact identified within various media including soil/fill, groundwater, soil vapor and indoor air.

3.1 Utility and Building Foundation Assessment

A review of maps and figures obtained from the City of Rochester showed that a combined sewer system and associated manholes are located in East Main Street and Railroad Street. The combined sewer system on East Main Street drains to the west and the combined sewer system on Railroad Street drains to the north. The sewer connected to the manhole in Railroad Street is a 12-inch circular brick sewer. Gas and electrical lines enter the Site underground from East Main Street. The electrical line enters an exterior transformer located south of the building before entering the south portion of the building. Municipal water enters the Site from East Main Street and this line enters the west side of the building. These features are shown on Figure 4. Electric, water, and gas lines within the manufacturing area of the building run aboveground (i.e., through overhead lines).

A trench drain is located in the driveway south of shipping/receiving on the western portion of the Site. A catch basin is located south of the customer entrance to the building, and a catch basin is located inside the shipping/receiving area. As confirmed by dye testing, these three drainage features drain to the combined sewer system located in Railroad Street. The sanitary sewer lines on the northern portion of the building are also assumed to discharge to this combined sewer system. [Note: During dye tracing water could be heard in a cleanout located in the northern portion of the western half of the building (i.e., a cleanout located within the locker room in the north portion of the building).] Based on a review of sewer maps for this area of the City of Rochester, the sanitary sewer lateral exiting the Site discharges into a circular brick sewer, which ties into the manhole observed Railroad Street. The sewer located on Railroad Street is 12-inch diameter vitrified tile construction.

A catch basin is located southeast of the transformer located south of the building. This catch basin and the office sanitary sewer were determined to drain to the combined sewer system located in East Main Street. The sewer map indicates that a 6-inch diameter vitrified tile sewer is located on the south portion of the Site and it is connected to a 15-inch vitrified tile sewer located along East Main Street.

A crock is located in the southeast portion of the building and a condensate pipe from a furnace located in the office area drains into this crock. [Note: The office area is located above the crock area, refer to Figure 4.] This clay tile crock is approximately 18-inches in diameter and approximately two feet deep, with a four-inch drain is located on the south portion of the crock and another four-inch drain located on the north portion of the crock. These drains were evaluated with a camera and the southern drain was observed to either end or be blocked approximately five feet south, and the northern drain was observed to either end or be blocked approximately three feet north.

Four capped floor drains are located behind furnaces V-3 and V-1 (i.e., on the west side of the south portion of the building). These capped floor drains are connected and drain to the north and then to the west from the northernmost capped floor drain. This capped floor drain was traced approximately 20 feet to the west where another cleanout was encountered and observed by camera to extend another seven feet to the west where a two-inch diameter galvanized steel pipe broken at the floor surface is located. This pipe is located above an apparent T-joint observed with the sewer camera. This pipe appears to be connected to a capped former floor drain located in the western portion of the building. Dye testing of the galvanized pipe confirmed that this pipe is also connected to the northernmost capped floor drain on the eastern side of the building (i.e., the capped floor drain located east of furnace V-6 discussed below). Water was also added to this galvanized pipe and could be heard in the cleanout located within the locker room in the north portion of the building.

Former floor drains/cleanouts (i.e., floor drains that are not currently used) are located west of furnace V-2, west of furnace V-7, west of furnace V-5, east of furnace V-7, and east of furnace V-6 (in the northeast portion of the building). [Note: As shown on Figure 4, the three floor drains/cleanouts located to the west of furnace V-5, furnace V-7 and east of V-6) are oriented in a north-south configuration. RSTW personnel reported that these three floor drains are connected and would therefore discharge to the same location (i.e., past the cleanout located in the north locker room on the west portion of the building).] These floor drains are discussed below.

- The floor drain located east of furnace V-7 drains towards a cleanout located to the west of furnace V-7. This floor drain is in the location of the former Black Oxide Line. [Note: Prior to the removal of the Black Oxide Line, representatives of Monroe County Pure Waters (MCPW) collected water samples from the cleanout located in the northern portion of the western half of the building (i.e., a cleanout located within the locker room in the north portion of the building) to assess water entering the sewer system. This water was tested for metals (i.e., cadmium, chromium, copper, lead, nickel, silver, zinc), cyanide, and pH.]

- Dye tracing was attempted in the cleanout located to the east of furnace V-6 (i.e., the northernmost floor drain/cleanout in the three floor drain/cleanout configuration). Water could be heard in a cleanout located in the northern portion of the western half of the building (i.e., a cleanout located within the locker room in the north portion of the building); however, attempts to confirm the presence of dye were not possible (i.e., DAY personnel were unable to fit a bailer or a piece of cloth far enough in to reach the water surface).

- Water was added to the floor drain/cleanout west of furnace V-5 (i.e., the southernmost floor drain/cleanout in the three floor drain/cleanout configuration); however, drainage from this floor drain was limited (i.e., the floor drain appeared to be partially blocked) and it could not be traced.

- The cover of the floor drain/cleanout located to the west of furnace V-7 (i.e., the central floor drain/cleanout in the three floor drain/cleanout configuration) was corroded and could not be removed. Dye tracing was not attempted at this location.

- Dye tracing was attempted at the floor drain located to the west of furnace V-2); however, drainage from this floor drain was limited (i.e., the floor drain appeared to be partially blocked) and it could not be traced. This floor drain appeared to drain to the south (i.e., it is possibly connected to the line between the capped floor drain east of furnace V-1 and the two-inch diameter pipe observed behind the V-4 control panel).

The two cleanouts observed in the shower room, the toilets, urinal, and sinks located in the north portion of the building discharge to the north, past the cleanout located in the locker room.

A three-inch diameter pipe and a four-inch diameter pipe are located east of furnace V-2. Water was added to these pipes and could be heard in the cleanout located in the northern portion of the western half of the building (i.e., the cleanout located within the locker room in the north portion of the building).

Reportedly, a thickened concrete pad is located west of furnace V-2. RSTW personnel indicated that this area formerly contained a pit that stored municipal water used to cool furnaces located in the present location of V-1 and V-3. When this water pit was no longer required it was reportedly filled with concrete.

A cleanout is located on the northeastern exterior of the building. This cleanout was confirmed to be connected to the cleanout located in the locker room.

The building is concrete slab-on-grade construction, however RSTW does not have building or foundation plans for the Site. Available information indicates that the building was constructed in stages and the current configuration is depicted on Figure 4. The various stages of development are depicted on the Sanborn maps included in Appendix A and the various slabs comprising the building are included on Figure 3C. As shown on the Sanborn maps, the original RSTW facility was located in the western portion of the Site and over time structures previously located in the easter portion of the Site were demolished and filling occurred to create the current grades to allow expansion of the building to its current footprint.

3.1.1 Evaluation of the Crock in Southeastern Portion of the Building

The constituents detected in samples collected from the crock located in the southeastern portion of the building at the Site and a comparison to various SCO are presented in Table 5 and discussed below.

Sediment Sample

Various VOCs were detected in the sediment sample collected from the crock located in the southeast portion of the building (i.e., sample 151-SED1). The concentration of cis-1,2-DCE in this sample exceeded the USCO and the PGWSCO. The concentrations of the other VOCs detected were below SCO.

The concentration of bis(2-ethylhexyl) phthalate in sediment sample 151-SED1 exceeded the method detection limit (MDL) reported by the analytical laboratory, but it did not exceed SCO. No other SVOCs were detected in sediment sample 151-SED1.

Various metals were detected in sediment sample 151-SED1 including chromium, copper, mercury, nickel, and zinc, which were detected at concentrations that exceeded the USCO. The other metals detected did not exceed SCO.

Water Sample

The water sample collected from the crock located in the southeast portion of the building (i.e., sample 134-CS-1) contained detectable concentration of three VOCs (refer to Table 6). The concentrations of cis-1,2-DCE detected in the sample exceeded the TOGS 1.1.1 standard, but the concentrations of the other VOCs detected (i.e., 1,1-DCE and TCE) were below the TOGS 1.1.1 standards or guidance values.

The detected concentrations of cadmium, iron, lead, and sodium in the water sample collected from the crock located in the southeast portion of the building exceeded the TOGS 1.1.1 standards. The other metals detected did not exceed TOGS 1.1.1 standards or guidance values. In addition, cyanide was not detected in water sample 134-CS-1 at concentrations greater than the MDL.

3.2 Soil and Fill

The nature and extent of impacts identified to date in surface and subsurface soil/fill are discussed in the subsections outlined below. The locations of surface and subsurface soil/sample collected are presented on Figure 2. The concentrations of constituents detected in the samples tested are summarized in Tables 7 through 13 and discussed below. Tables 7 through 13 also include a comparison of the detected concentrations to applicable USCO, PGWSCO, and ISCO. In addition, the detected concentrations of VOCs and SVOCs are compared to SCL.

3.2.1 Surface Soil/Fill

PID readings of 0.0 ppm were measured above surface soil/fill samples from locations SS-1 through SS-6. A headspace reading of 0.1 ppm was measured above surface soil sample SS-2.

Historic Fill Material (HFM) was observed in surface soil sample SS-1 (i.e., some coal and glass with a tan ash seam at 3 ft. bgs). Trace coal was observed in surface soil sample SS-3. No odors or staining were noted/observed on the surface soil/fill samples.

The concentration of constituents detected in the surface soil/fill samples tested are summarized in Tables 5 through 10, and discussed below.

TPH DRO & GRO

GRO was not detected in the five surface soil/fill samples tested. DRO was detected in four of the five surface soil/fill samples tested. The concentration of DRO ranged from 75 mg/kg [147-S-1 (0.1)] to 410 mg/kg [150-SS-2 (0.1)]. There are no SCO or other New York State regulatory guidance values for DRO.

SVOCs

SVOCs were detected in each of the five surface soil/fill samples tested. The concentrations of SVOCs detected in sample 148-SS-1 (3.3) were below the USCO, ISCO, PGWSCO, and SCL. The concentrations of benzo(b)fluoranthene and indeno(1,2,3-cd)pyrene in sample 148-SS-1 (0.1) exceeded the USCO and SCL, but were below the ISCO and PGWSCO. The concentration of chrysene in 148-SS-1 (0.1) exceeded the USCO, PGSCO and SCL, but it was below the ISCO. The concentrations of SVOCs detected in surface soil sample 148-SS-1 (3.3) were below SCO. Surface soil sample 150-SS-2 (0.1) had concentrations of benzo(a)pyrene, benzo(k)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene that exceeded the USCO and SCL, but the concentrations were below the ISCO and PGWSCO. The concentrations of benz(a)anthracene, benzo(b)fluoranthene, and chrysene in sample 150-SS-2 (0.1) exceeded the USCO, PGWSCOs and SCL, but were below the ISCO. [Note: Surface soil/fill samples SS-1 and SS-2 were located in the grassed area in the north portion of the Site.] Surface soil sample 144-SS-3 (0.1) had concentrations of benzo(b)fluoranthene and indeno(1,2,3-cd)pyrene that exceeded the USCO and SCL, but were below the ISCO and PGWSCO. Surface soil sample 146-SS-4 (0.1) had concentrations of benzo(k)fluoranthene and indeno(1,2,3-cd)pyrene that exceeded the USCO and SCL, but were below the ISCO and PGWSCO. The concentrations of benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and chrysene in 146-SS-4 (0.1) exceeded the USCO, PGWSCO, and SCL, but below the ISCO. [Note: Surface soil samples 144-SS-3 (0.1) and 146-SS-4 (0.1) were located the area of the concrete pad of the transformer on the south portion of the Site and collected from beneath stone. These samples were only tested for PCBs.] TICs in the surface soil samples ranged from 2.70 ppm [148-SS-1 (3.3)] to 21.19 ppm [150-SS-2 (0.1)].

Metals and Cyanide

TAL metals were detected in each of the five surface soil/fill samples tested. The concentrations of lead and zinc in sample 144-SS-3 (0.1); copper, lead, and zinc in sample 146-SS-4 (0.1); copper, lead, mercury, and zinc in sample 147-SS-1 (0.1); copper and mercury in 148-SS-1 (3.3); and, barium, cadmium, chromium, copper, lead, nickel, and zinc in sample 150-SS-2 (0.1) exceeded the USCO, but were below the ISCO and PGWSCO. The concentrations of barium in sample 147-SS-1 (0.1) and mercury in sample 150-SS-2 (0.1) exceeded the USCO and PGWSCO, but were below the ISCO. The concentration of arsenic in sample 147-SS-1 (0.1) exceeded the USCO, ISCO, and PGWSCO. The other metals detected contained concentrations below SCO.

Cyanide was detected in four of the five surface soil/fill samples tested however, the concentrations detected were below the USCO, ISCO, and PGWSCO.

PCBs

PCBs were not detected in the seven surface soil/fill samples tested [i.e., 147-SS-1 (0.1), 148-SS-1 (3.3), 150-SS-2 (0.1), 144-SS-3 (0.1), 146-SS-4 (0.1), 143-SS-5(0.5), and 145-SS-6(0.5)].

Pesticides

Endrin aldehyde was detected in three of the five surface soil/fill samples tested [i.e., 147-SS-1 (0.1), 148-SS-1 (3.3), and 150-SS-2 (0.1)]. There were no SCO for endrin aldehyde. No other pesticides were detected in the surface soil/fill samples tested.

3.2.2 Subsurface Soil/Fill

PID readings measured on the subsurface soil/fill samples ranged from 0.0 ppm to greater than 15,000 ppm (TB-30 at approximately 6.5 ft bgs). [Note: Test boring TB-30 is located in the former TCE degreaser pit which is approximately 2.1 ft. lower than the surrounding floor.] A chemical-type odor was observed in samples collected from test boring TB-20 at an approximate depth of 13 ft. bgs; in test boring TB-31 at an approximate depth of 15.5 ft. bgs; in test boring BRMW-3 at an approximate depth of 12.5 ft. bgs; and, in test boring BRMW-5 at an approximate depth of 12.5 ft. bgs. A petroleum-type odor was observed in samples collected from test boring TB-28 from approximately 11 ft. bgs to 16 ft. bgs.

Test boring refusal in the northern portion of the Site was encountered at depths ranging from 9.4 ft. bgs (TB-34a) to 18 ft. bgs (TB-22 and TB-23). Test boring refusal in the southern portion of the Site was encountered at 23.5 ft. bgs (TB-21). A figure depicting the apparent fill thickness at the Site is included as Figure 5 and a figure depicting the apparent overburden thickness at the Site (i.e., fill and indigenous soil) is included as Figure 6.

The constituents detected in the subsurface soil/fill samples submitted for testing are summarized on Tables 11 through 13 and discussed below. The exceedances of PGWSCO in the subsurface soil/fill samples tested are shown on Figure 3A.

VOCs

Various VOCs were detected in each of the 11 subsurface soil/fill samples tested. The concentrations of VOCs detected in samples 109-TB-21(9) and 115-TB-24(15.5) were below the USCO, ISCO, PGWSCO, and SCL. Sample 105-TB-20(13.5) contained concentrations of petroleum-related VOCs (i.e., 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and xylenes) that exceeded the USCO, PGWSCO, and SCL, but were below the ISCO. The other soil/fill samples tested [i.e., 100-TB-28 (11.5), 101-TB-26(12.5), 102-TB-27(14), 103-TB-23(15), 107-TB-25(11.5), 113-TB-22 (13-14), 163-TB-29 (4-8), and 164-TB-30 (5-8)] contained concentrations of CVOCs (i.e., PCE, TCE, cis-1,2-DCE, and/or vinyl chloride) that exceeded SCO. Additional information regarding these CVOCs is provided below.

- PCE was detected in six of the eleven subsurface soil/fill samples tested. The concentrations of PCE ranged from non-detect [i.e., 102-TB-26(12.5), 105-TB-20(13.5), 109-TB-21(9), 113-TB-22(13-14), 115-TB-24(15.5)] to 23 ppm [107-TB-25 (11.5)]. The detected concentration of PCE in samples 100-TB-28 (11.5), 101-TB-26 (12.5), 103-TB-23 (15), 163-TB-29 (4-8) was below the USCO, ISCO, and PGWSCO. The detected concentrations of PCE in subsurface soil samples 107-TB-25 (11.5) and 164-TB-30 (5-8) exceeded the USCO and PGWSCO but were below the ISCO.

- TCE was detected in ten of the eleven subsurface soil/fill samples tested. The concentrations of TCE ranged from non-detect [i.e., 115-TB-24(15.5)] to 990 ppm [i.e., 164-TB-30(5-8)]. The detected concentrations of TCE in samples 101-TB-26(12.5), 105-TB-20(13.5), 109-TB-21(9), and 115-TB-24(15.5) was below the USCO, ISCO, and PGWSCO. The detected concentrations of TCE in samples 100-TB-28(11.5), 102-TB-27(14), 103-TB-23(15), 113-TB-22(13-14), and 163-TB-29(4-8) exceeded the USCO and the PGWSCO but were below the ISCO. The detected concentrations of TCE in samples 107-TB-25(11.5) and 164-TB-30(5-8) exceeded the USCO, PGWSCO, and ISCO.

- Cis-1,2-DCE was detected in six of the 11 subsurface soil/fill samples tested. The concentrations of cis-1,2-DCE ranged from non-detect [i.e., 105-TB-20(13.5), 107-TB-25(11.5), 109-TB-21(9), 115-TB-24(15.5), 164-TB-30(5-8)] to 3.8 ppm [i.e., 113-TB-22(13-14)]. The detected concentration of cis-1,2-DCE in sample 163-TB-29(4-8) was below the USCO, ISCO, and PGWSCO. The detected concentration of cis-1,2-DCE in samples 100-TB-28(11.5), 101-TB-26(12.5), 102-TB-27(14), 103-TB-23(15), and 113-TB-22(13-14)] exceeded the USCO and PGWSCO but were below the ISCO.

- Vinyl chloride was detected in five of the 11 subsurface soil/fill samples tested. The concentrations of vinyl chloride ranged from non-detect [i.e., 105-TB-20(13.5), 107-TB-25(11.5), 109-TB-21 (9), 115-TB-24 (15.5), 163-TB-29 (4-8), and 164-TB-30 (5-8)] to 0.13 ppm [i.e., 102-TB-27(14)]. The detected concentration of vinyl chloride in samples 103-TB-23(15) was below the USCO, ISCO, and PGWSCO. The detected concentrations of vinyl chloride in samples 100-TB-28(11.5), 101-TB-26(12.5), 102-TB-27(14), 113-TB-22 (13-14), exceeded the USCO and PGWSCO, but they were below the ISCO.

SVOCs

SVOCs were not detected at concentrations greater than the MDL in the two subsurface soil/fill samples tested. TICs were detected in the two subsurface soil/fill samples tested. There are no SCO for SVOC TICs.

Metals and Cyanide

Various TAL metals and cyanide were detected in the three subsurface soil/fill samples tested. The concentration of arsenic, copper, lead, and zinc in sample 104-TB-23(3) and zinc in sample 110-TB-21 (3) exceeded USCO, but they were below the PGWSCO and ISCO. The concentration of barium in sample 104-TB-23(3) exceeded the USCO and PGWSCO, but it was below the ISCO.

Pesticides

Pesticides were not detected in the three subsurface soil/fill samples tested.

3.3 Groundwater

The nature and extent of impacts to overburden and bedrock groundwater identified based on the studies completed to date are presented in this section. The detected constituents measured in the groundwater samples and a comparison to TOGS 1.1.1 Groundwater Standards or Guidance Values are presented on Tables 14A, 14B, 15, 16, and 17. A summary of TCE, cis-1,2-DCE, and vinyl chloride concentrations measured in the overburden and bedrock groundwater samples tested to date is presented on Figure 3B.

3.3.1 Overburden Groundwater

Non-Chlorinated VOCs

The non-chlorinated VOCs detected in overburden groundwater samples tested are discussed below.

<u>Acetone</u>

Acetone was detected in two of the 13 overburden groundwater samples collected/tested during March 2019 groundwater sampling event; in ten of the 14 overburden groundwater samples collected/tested during the August 2019 groundwater sampling event; in 3 of the 7 overburden groundwater samples collected/tested during the April 2020 groundwater sampling event; and, in 14 of the 18 overburden groundwater samples collected/tested during the September 2021 groundwater sampling event. The concentrations of acetone in the samples tested ranged from non-detect to 200 ppb (MW-B, collected on September 15, 2021). The concentration of acetone exceeded the TOGS 1.1.1 guidance value of 50 ppb in seven of the samples tested to date.

<u>Chloroform</u>

Chloroform was detected in four of the 13 overburden groundwater samples collected/tested during the March 2019 groundwater sampling event; in six of the 14 overburden groundwater samples collected/tested during the August 2019 groundwater sampling event; was not detected in the overburden groundwater samples collected/tested during the April 2020 groundwater sampling event; and, in three of the 18 overburden groundwater samples collected/tested during the September 2021 groundwater sampling event. The concentrations of chloroform in the samples ranged from non-detect to 28 ppb (MW-E, collected on September 16, 2021). The concentration of chloroform exceeded the TOGS 1.1.1 guidance value of 7 ppb in one of those samples.

Petroleum-Related VOCs

Petroleum-related VOCs were detected sporadically in the overburden groundwater samples tested. The concentrations of 1,2,4-trimethylbenzene (270 ppb), 1,3,5-trimethylbenzene (91 ppb), 4-isopropyltoluene (9.8 ppb), m,p-xylenes (8.7 ppb), n-butylbenzene (5.7 ppb), n-propylbenzene (12 ppb), and sec-butylbenzene (7.1 ppb) in the overburden groundwater sample collected/tested from overburden monitoring well MW-I on March 15, 2019 exceeded the TOGS 1.1.1 groundwater standards of 5 ppb. The concentration of 1,2,4-trimethylbenzene (93 ppb) collected/tested from MW-A on March 15, 2019 exceeded the TOGS 1.1.1 groundwater standard of 5 ppb. The concentration of naphthalene measured in MW-A in the sample collected/tested on September 16, 2021 exceeded the TOGS 1.1.1 guidance value of 10 ppb. There were no other exceedances of the TOGS 1.1.1 groundwater standards or guidance values for petroleum-related VOCs.

Chlorinated VOCs (CVOCs)

Various CVOCs were detected in the overburden groundwater samples collected/tested to date. One or more CVOCs [i.e., PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, and/or vinyl chloride] were detected at concentrations above TOGS 1.1.1 standards in the seven of the 13 overburden groundwater samples collected/tested during the March 2019 groundwater sampling event; in seven of the 14 overburden groundwater samples collected/tested during the August 2019 groundwater sampling event; in six of the 7 overburden groundwater samples collected/tested during the April 2020 groundwater sampling event; and, in 12 of the 18 overburden groundwater samples collected/tested during the September 2021 groundwater sampling event. Additional information regarding these CVOCs is provided below.

- Concentrations of PCE were detected in four of the 13 overburden groundwater samples tested during the March 2019 groundwater sampling event, and the concentrations ranged from non-detect to 280 ppb (MW-N, collected on March 15, 2019). The concentration of PCE exceeded the TOGS 1.1.1 standard of 5 ppb in two of these four samples.

  Concentrations of PCE were detected in four of the 14 overburden groundwater samples tested during the August 2019 groundwater sampling event, and the concentrations ranged from non-detect to 200 ppb (MW-N, collected on August 30, 2019). The concentration of PCE exceeded the TOGS 1.1.1 standard of 5 ppb in two of those four samples.

Concentrations of PCE were detected in two of the seven overburden groundwater samples tested during the April 2020 groundwater sampling event, and the concentrations ranged from non-detect to 82 ppb (MW-N, collected on April 1, 2020). The concentration of PCE exceeded the TOGS 1.1.1 standard of 5 ppb in this sample.

Concentrations of PCE were detected in six of the 18 overburden groundwater samples tested during the September 2021 groundwater sampling event, and the concentrations ranged from non-detect to 99 ppb (MW-O, collected on September 16, 2021) the concentration of PCE exceeded the TOGS 1.1.1 standard of 5 ppb in three of the six samples.

- Concentrations of TCE were detected in 12 of the 13 overburden groundwater samples tested during the March 2019 groundwater sampling event, and the concentrations ranged from non-detect to 80,000 ppb (MW-N, collected on March 15, 2019). The concentration of TCE exceeded the TOGS 1.1.1 standard of 5 ppb in six of those 12 samples.

  Concentrations of TCE were detected in 12 of the 14 overburden groundwater samples tested during the August 2019 groundwater sampling event, and the concentrations ranged from non-detect to 290,000 ppb (MW-O, collected on August 30, 2019). The concentration of TCE exceeded the TOGS 1.1.1 standard of 5 ppb in two of those 12 samples.

  Concentrations of TCE were detected in each of the seven overburden groundwater samples tested during the April 2020 groundwater sampling event, and the concentrations ranged from 0.41 ppb (MW-I, collected on April 1, 2020) to 580,000 ppb (MW-O, collected on April 1, 2020). The concentration of TCE exceeded the TOGS 1.1.1 standard of 5 ppb in six of those seven samples. in the limited groundwater sampling event.

  Concentrations of TCE were detected in 17 of the 18 overburden groundwater samples tested during the September 2021 groundwater sampling event, and the concentrations ranged from non-detect to 61,000 ppb (MW-O, collected on September 16, 2021). The concentration of TCE exceeded the TOGS 1.1.1 standard of 5 ppb in 11 of those 17 samples.

- Concentrations of cis-1,2-DCE were detected in each of the 13 overburden groundwater samples tested during the March 2019 groundwater sampling event, and the concentrations ranged from non-detect to 48,000 ppb (MW-A, collected on March 15, 2019). The concentration of cis-1,2-DCE exceeded the TOGS 1.1.1 standard of 5 ppb in seven of those 13 samples.

  Concentrations of cis-1,2-DCE were detected in each of the 14 overburden groundwater samples tested during the August 2019 groundwater sampling event, and the concentrations ranged from non-detect to 66,000 ppb (MW-A, collected on August 30, 2019). The concentration of cis-1,2-DCE exceeded the TOGS 1.1.1 standard of 5 ppb in eight of those 14 samples.

  Concentrations of cis-1,2-DCE were detected in each of the seven overburden groundwater samples tested during the April 2020 groundwater sampling event, and the concentrations ranged from 92 ppb (MW-B, collected on April 1, 2020) to 55,000 ppb (MW-K, collected on April 1, 2020). The concentration of cis-1,2-DCE exceeded the TOGS 1.1.1 standard of 5 ppb in five of those seven samples.

  Concentrations of cis-1,2-DCE were detected in 14 of the 18 overburden groundwater samples tested during the September 2021 groundwater sampling event, and the concentrations ranged from non-detect to 20,000 ppb (MW-K, collected on September 15, 2021). The concentration of cis-1,2-DCE exceeded the TOGS 1.1.1 standard of 5 ppb in 11 of those 14 samples.

- Concentrations of trans-1,2-DCE were detected in five of the 13 overburden groundwater samples tested during the March 2019 groundwater sampling event, and the concentrations ranged from non-detect to 320 ppb (MW-A, collected on March 15, 2019). The concentration of trans-1,2-DCE exceeded the TOGS 1.1.1 standard of 5 ppb in three of those five samples.

  Concentrations of trans-1,2-DCE were detected in six of the 14 overburden groundwater samples tested during the August 2019 groundwater sampling event, and the concentrations ranged from non-detect to 260 ppb (MW-A, collected on August 30, 2019). The concentration of trans-1,2-DCE exceeded the TOGS 1.1.1 standard of 5 ppb in two of those six samples.

  Concentrations of trans-1,2-DCE were detected in one of the seven overburden groundwater samples tested during the April 2020 groundwater sampling event, and the concentrations ranged from non-detect to 140 ppb (MW-A, collected on April 1, 2020). The concentration of trans-1,2-DCE exceeded the TOGS 1.1.1 standard of 5 ppb in this sample.

Concentrations of trans-1,2-DCE were detected in two of the 18 overburden groundwater samples tested during the September 2021 groundwater sampling event, and the concentrations ranged from non-detect to 95 ppb (MW-K, collected on September 15, 2021). The concentration of trans-1,2-DCE exceeded the TOGS 1.1.1 standard of 5 ppb in one of those two samples.

- Concentrations of 1,1-DCE were detected in two of the 13 overburden groundwater samples tested during the March 2019 groundwater sampling event, and the concentrations ranged from non-detect to 110 ppb (MW-A, collected on March 15, 2019). The concentration of 1,1-DCE exceeded the TOGS 1.1.1 standard of 5 ppb in one of those two samples.

  Concentrations of 1,1-DCE were detected in three of the 14 overburden groundwater samples tested during the August 2019 groundwater sampling event, and the concentrations ranged from non-detect to 130 ppb (MW-N, collected on August 30, 2019). The concentration of 1,1-DCE exceeded the TOGS 1.1.1 standard of 5 ppb in one of those three samples.

  Concentrations of 1,1-DCE were detected in three of the seven overburden groundwater samples tested during the April 2020 groundwater sampling event, and the concentrations ranged from non-detect to 62 ppb (MW-N, collected on April 1, 2020). The concentration of 1,1-DCE exceeded the TOGS 1.1.1 standard of 5 ppb in two those three samples.

  Concentrations of 1,1-DCE were detected in five of the 18 overburden groundwater samples tested during the September 2021 groundwater sampling event, and the concentrations ranged from non-detect to 50 ppb (MW-K, collected on September 15, 2021). The concentration of 1,1-DCE exceeded the TOGS 1.1.1 standard of 5 ppb in three of those five samples.

- Concentrations of vinyl chloride were detected in nine of the 13 overburden groundwater samples tested during the March 2019 groundwater sampling event, and the concentrations of ranged from non-detect to 2,100 ppb (MW-K, collected on March 15, 2019). The concentration of vinyl chloride exceeded the TOGS 1.1.1 standard of 2 ppb in four of those nine samples.

  Concentrations of vinyl chloride were detected in ten of the 14 overburden groundwater samples tested during the August 2019 groundwater sampling event, and the concentrations of ranged from non-detect to 2,300 ppb (MW-A, collected on August

30, 2019). The concentration of vinyl chloride exceeded the TOGS 1.1.1 standard of 2 ppb in six of ten those samples.

Concentrations of vinyl chloride were detected in each of the seven overburden groundwater samples tested during the April 2020 groundwater sampling event, and the concentrations ranged from 0.42 ppb (MW-I, collected on April 1, 2020) to 4,400 ppb (MW-K, collected on April 1, 2020). The concentration of vinyl chloride exceeded the TOGS 1.1.1 standard of 2 ppb in six of the seven samples.

Concentrations of vinyl chloride were detected in 13 of the 18 overburden groundwater samples tested during the September 2021 groundwater sampling event, and the concentrations ranged from non-detect to 1,800 ppb (MW-K, collected on September 15, 2021). The concentration of vinyl chloride exceeded the TOGS 1.1.1 standard of 2 ppb in nine of those 13 samples.

Total VOCs and TICs

Concentrations of VOC TICs were detected in two of the 13 overburden groundwater samples tested during the March 2019 groundwater sampling event, and the concentrations ranged from non-detect to 445.9 ppb (MW-I, collected on March 15, 2019). The concentrations of total VOCs ranged from 1.94 ppb (MW-F, collected on March 14, 2019) to 92,630 ppb (MW-N, collected on March 15, 2019) in the samples collected during the March 2019 groundwater sampling event.

Concentrations of VOC TICs were detected in three of the 14 overburden groundwater samples tested during the August 2019 groundwater sampling event, and the concentrations ranged from non-detect to 23.11 ppb (MW-I, collected on August 30, 2019). The concentrations of total VOCs ranged from 10.88 ppb (MW-F, collected on August 30, 2019) to 306,540 ppb (MW-O, collected on August 30, 2019) in the samples collected during the August 2019 groundwater sampling event.

Concentrations of VOC TICs were detected in one of the seven overburden groundwater samples tested during the April 2020 groundwater sampling event, and the concentrations ranged from non-detect to 1 ppb (MW-I, collected on April 1, 2020). The concentrations of total VOCs ranged from 5.91 ppb (MW-I, collected on April 1, 2020) to 595,560 ppb (MW-O, collected on April 1, 2020) in the samples collected during the April 2020 groundwater sampling event.

Concentrations of VOC TICs were detected in eight of the 18 overburden groundwater samples tested during the September 2021 groundwater sampling event, and the concentrations ranged from non-detect to 27 ppb (MW-P, collected on September 15, 2021). The concentrations of total VOCs ranged from 18.19 ppb (MW-I, collected on September 16, 2021) to 69,623 ppb (MW-A, collected on March 15, 2019) in the samples collected during the September 2021 groundwater sampling event.

LNAPL

Approximately 0.01 ft. of LNAPL was measured in overburden monitoring well MW-J on August 7, 2019. A sheen was observed on the oil/water interface probe removed from overburden monitoring well MW-O on August 30, 2019. LNAPL was not detected in overburden monitoring well MW-O on March 6, 2020. A trace of LNAPL (i.e., less than 0.01 ft.) was detected in overburden monitoring well MW-O on August 4, 2021. A trace of LNAPL was observed on the oil/water interface probe removed from overburden monitoring well MW-O on August 16, 2021. LNAPL was not detected in the other overburden monitoring wells sampled to date.

DNAPL

DNAPL was not detected in the overburden groundwater samples collected to date.

SVOCs

One or more SVOCs were detected in two of the four overburden groundwater samples tested (MW-K and MW-A) during the March 2019 groundwater sampling event. The concentration of naphthalene detected in the groundwater sample collected from monitoring well MW-A exceeded the TOGS 1.1.1 guidance value. The concentrations of other SVOCs detected in these overburden groundwater samples were below the applicable TOGS 1.1.1 standards or guidance values.

Metals and Cyanide

Various TAL metals were detected in the four overburden groundwater samples tested during the March 2019 groundwater sampling event. One or more metals were detected at concentrations above TOGS 1.1.1 in each of the four overburden groundwater samples tested. These exceedances are discussed below.

- Iron was detected in the four overburden groundwater samples collected/tested during the March 2019 groundwater sampling event at concentrations ranging from 22.9 ppb (136-MW-K) to 4,520 ppb (138-MW-A). The concentration of iron exceeded the TOGS 1.1.1 standard of 300 ppb in two of the four samples tested.

- Magnesium was detected in the four overburden groundwater samples collected/tested during the March 2019 groundwater sampling event at concentrations ranging from 13,100 ppb (129-MW-J) to 35,800 ppb (126-MW-L). The concentration of magnesium exceeded the TOGS 1.1.1 standard of 35,000 ppb in one of the four samples tested.

- Manganese was detected in the four overburden groundwater samples collected/tested during the March 2019 groundwater sampling event at concentrations ranging between 320 ppb (129-MW-J) to 1,510 ppb (136-MW-K). The concentration of manganese exceeded the TOGS 1.1.1 standard of 300 ppb in each of the four samples tested.

- Sodium was detected in the four overburden groundwater samples collected/tested during the March 2019 groundwater sampling event at concentrations ranging between 55,800 ppb (129-MW-J) to 108,000 ppb (126-MW-L). The concentration of sodium exceeded the TOGS 1.1.1 standard of 20,000 ppb in each of the four samples tested.

- Cyanide was detected in one of the nine overburden groundwater samples tested during the March 2019 groundwater sampling event. The concentration of cyanide detected (i.e., 9 ppb in groundwater sample 127-MW-C) did not exceed the TOGS 1.1.1 standard of 200 ppb.

PFAS and 1,4-Dioxane

The concentrations of PFOA and PFOS in the overburden groundwater samples collected from overburden monitoring wells MW-A, MW-E, and MW-L on April 5, 2019 were below 10 ng/L. No individual PFAS was detected at or above 100 ng/L and the total concentration of PFAS was less than 500 ng/L in the samples collected in April 2019. The maximum concentration of total PFAS (i.e., 28.3 ppt) was detected in the groundwater sample collected from MW-A on April 5, 2019. The concentrations detected are below 100 ng/L. [Note: Drinking water wells are not located in proximity to the Site.]

1,4-dioxane was not detected above the MDL in the overburden groundwater samples collected from overburden monitoring wells MW-A, MW-E, and MW-L on April 5, 2019.

3.3.2 Bedrock Groundwater

Non-Chlorinated VOCs

Non-chlorinated VOCs (e.g., 1,2,4-trimethylbenzene, 2-butanone, acetone, methylcyclohexane, sec-butylbenzene, tert-butylbenzene) were detected in the bedrock groundwater samples collected/tested during each of the groundwater sampling events. The concentration of 2-butanone collected from bedrock monitoring well BRMW-1 on September 16, 2021 exceeded the TOGS 1.1.1 standard. The detected concentrations of the other detected constituents did not exceed TOGS 1.1.1 Standards or Guidance Values.

Chlorinated VOCs

CVOCs were detected in the bedrock groundwater samples collected/tested during each of the groundwater sampling events. The CVOCs detected in the bedrock groundwater are discussed in more detail below.

- Concentrations of PCE were detected in each of the bedrock groundwater samples tested during the March 2019 groundwater sampling event, and the concentrations of PCE ranged from 0.42 ppb (BRMW-1, collected on March 13, 2019) to 3 ppb (BRMW-2, collected on March 13, 2019). The concentration of PCE did not exceed the TOGS 1.1.1 standard of 5 ppb in these two samples.

  Concentrations of PCE were detected in each of the four bedrock groundwater samples tested during the August 2019 groundwater sampling event, and the concentrations of PCE ranged from 0.47 ppb (BRMW-1, collected on August 30, 2019) to 120 ppb (BRMW-3, collected on August 30, 2019). The concentration of PCE exceeded the TOGS 1.1.1 standard of 5 ppb in one of those four samples.

  Concentrations of PCE were not detected in the two bedrock groundwater samples tested during the April 2020 groundwater sampling event.

  Concentrations of PCE were detected in four of the five overburden groundwater samples tested during the September 2021 groundwater sampling event, and the concentrations ranged from non-detect to 12 ppb (BRMW-4, collected on September 15, 2021). The concentration of PCE exceeded the TOGS 1.1.1 standard of 5 ppb in two of those four samples.

- Concentrations of TCE were detected in each of the two bedrock groundwater samples tested during the March 2019 groundwater sampling event, and the concentrations of

TCE ranged from 7.5 ppb (BRMW-1, collected on March 13, 2019) to 930 ppb (BRMW-2, collected on March 13, 2019). The concentration of TCE exceeded the TOGS 1.1.1 standard of 5 ppb in these two samples.

Concentrations of TCE were detected in each of the four bedrock groundwater samples tested during the August 2019 groundwater sampling event, and the concentrations of TCE ranged from 5.5 ppb (BRMW-1, collected on August 30, 2019) to 79,000 ppb (BRMW-3, collected on August 30, 2019). The concentration of TCE exceeded the TOGS 1.1.1 standard of 5 ppb in each of these four samples.

Concentrations of TCE were detected in one of the two bedrock groundwater samples tested during the April 2020 groundwater sampling event, and the concentrations of TCE ranged from non-detect to 62,000 ppb (BRMW-3, collected on April 1, 2020). The concentration of TCE exceeded the TOGS 1.1.1 standard of 5 ppb in this one sample.

Concentrations of TCE were detected in each of the five overburden groundwater samples tested during the September 2021 groundwater sampling event, and the concentrations ranged from 10 ppb (BRMW-1, collected on September 16, 2021) to 8,300 ppb (BRMW-5, collected on September 15, 2021). The concentration of TCE exceeded the TOGS 1.1.1 standard of 5 ppb in each of these five samples.

- Concentrations of cis-1,2-DCE were detected in each of the two bedrock groundwater samples tested during the March 2019 groundwater sampling event, and the concentrations of cis-1,2-DCE ranged from 300 ppb (BRMW-1, collected on March 13, 2019) to 510 ppb (BRMW-2, collected on March 13, 2019). The concentration of cis-1,2-DCE exceeded the TOGS 1.1.1 standard of 5 ppb in these two samples.

  Concentrations of cis-1,2-DCE were detected in each of the four bedrock groundwater samples tested during the August 2019 groundwater sampling event, and the concentrations of cis-1,2-DCE ranged from 140 ppb (BRMW-4, collected on August 30, 2019) to 4,500 ppb (BRMW-3, collected on August 30, 2019). The concentration of cis-1,2-DCE exceeded the TOGS 1.1.1 standard of 5 ppb in each of these four samples.

  Concentrations of cis-1,2-DCE were detected in each of the two bedrock groundwater samples tested during the April 2020 groundwater sampling event, and the concentrations of cis-1,2-DCE ranged from 190 ppb (BRMW-4, collected on April 1, 2020) to 62,000 ppb (BRMW-3, collected on April 1, 2020). The concentration of cis-1,2-DCE exceeded the TOGS 1.1.1 standard of 5 ppb in each of these two samples.

Concentrations of cis-1,2-DCE were detected in each of the five overburden groundwater samples tested during the September 2021 groundwater sampling event, and the concentrations of cis-1,2-DCE ranged from 190 ppb (BRMW-1, collected on September 16, 2021) to 2,200 ppb (BRMW-5, collected on September 15, 2021). The concentration of cis-1,2-DCE exceeded the TOGS 1.1.1 standard of 5 ppb in each of these five samples.

- Concentrations of trans-1,2-DCE were detected in each of the bedrock groundwater samples tested during the March 2019 groundwater sampling event, and the concentrations of trans-1,2-DCE ranged from 1.9 ppb (BRMW-1, collected on March 13, 2019) to 3.3 ppb (BRMW-2, collected on March 13, 2019). The concentration of trans-1,2-DCE did not exceed the TOGS 1.1.1 standard of 5 ppb in these two samples.

  Concentrations of trans-1,2-DCE were detected in three of the four bedrock groundwater samples tested during the August 2019 groundwater sampling event, and the concentrations of trans-1,2-DCE ranged from non-detect to 3.7 ppb (BRMW-4, collected on August 30, 2019). The concentration of trans-1,2-DCE did not exceed the TOGS 1.1.1 standard of 5 ppb in each of these three samples.

  Concentrations of trans-1,2-DCE were not detected in the two bedrock groundwater samples tested during the April 2020 groundwater sampling event.

  Concentrations of trans-1,2-DCE were detected in two of the five overburden groundwater samples tested during the September 2021 groundwater sampling event, and the concentrations of trans-1,2-DCE ranged from non-detect to 23 ppb (BRMW-2, collected on September 16, 2021). The concentration of trans-1,2-DCE exceeded the TOGS 1.1.1 standard of 5 ppb in each of these two samples.

- Concentrations of vinyl chloride were detected in each of the bedrock groundwater samples tested during the March 2019 groundwater sampling event, and the concentrations of vinyl chloride ranged from 42 ppb (BRMW-1, collected on March 13, 2019) to 37 ppb (BRMW-2, collected on March 13, 2019). The concentration of vinyl chloride exceeded the TOGS 1.1.1 standard of 2 ppb in each of these two samples.

  Concentrations of vinyl chloride were detected in each of the four bedrock groundwater samples tested during the August 2019 groundwater sampling event, and the concentrations of vinyl chloride ranged from 9.2 ppb (BRMW-4, collected on August 30, 2019) to 160 ppb (BRMW-3, collected on August 30, 2019). The concentration of vinyl chloride exceeded the TOGS 1.1.1 standard of 2 ppb in each of these four samples.

Concentrations of vinyl chloride were detected in one of the two bedrock groundwater samples tested during the April 2020 groundwater sampling event, and the concentrations of vinyl chloride ranged from non-detect to 240 ppb (BRMW-3, collected on April 1,2020). The concentration of vinyl chloride exceeded the TOGS 1.1.1 standard of 2 ppb in this one sample.

Concentrations of vinyl chloride were detected in each of the five overburden groundwater samples tested during the September 2021 groundwater sampling event, and the concentrations of vinyl chloride ranged from 40 ppb (BRMW-4, collected on September 15, 2021) to 240 ppb (BRMW-5, collected on September 15, 2021). The concentration of vinyl chloride exceeded the TOGS 1.1.1 standard of 2 ppb in each of these five samples.

- Concentrations of 1,1,1-TCA were detected in one of the two bedrock groundwater samples tested during the March 2019 groundwater sampling event, and the concentrations of 1,1,1-TCA ranged from non-detect to 5.4 ppb (BRMW-2, collected on March 13, 2019). The concentration of 1,1,1-TCA exceeded the TOGS 1.1.1 standard of 5 ppb in this one sample.

Concentrations of 1,1,1-TCA were detected in three of the four bedrock groundwater samples tested during the August 2019 groundwater sampling event, and the concentrations of 1,1,1-TCA ranged from non-detect to 6,100 ppb (BRMW-3, collected on August 30, 2019). The concentration of 1,1,1-TCA exceeded the TOGS 1.1.1 standard of 5 ppb in two of these three samples.

Concentrations of 1,1,1-TCA were detected in one of the two bedrock groundwater samples tested during the April 2020 groundwater sampling event, and the concentrations of 1,1,1-TCA ranged from non-detect to 3,900 ppb (BRMW-3, collected on April 1, 2020). The concentration of 1,1,1-TCA exceeded the TOGS 1.1.1 standard of 5 ppb in this one sample.

Concentrations of 1,1,1-TCA were detected in three of the five overburden groundwater samples tested during the September 2021 groundwater sampling event, and the concentrations of 1,1,1-TCA ranged from non-detect to 200 ppb (BRMW-3, collected on September 16, 2021). The concentration of 1,1,1-TCA exceeded the TOGS 1.1.1 standard of 5 ppb in each of these three samples.

- Concentrations of CFC 113 were not detected in the two groundwater samples tested during the March 2019 sampling event, not detected in the four groundwater samples tested during the August 2019 sampling event, and not detected in the five groundwater samples tested during the September 2021 sampling event. CFC 113 was detected in one of the two bedrock groundwater samples tested during the April 2020 groundwater sampling event at a concentration of 300 ppb. The concentration detected exceeded the TOGS 1.1.1 standard of 5 ppb in this one sample.

- Concentrations of 1,1-DCA were detected in one of the two bedrock groundwater samples tested during the March 2019 groundwater sampling event, and the concentrations of 1,1-DCA ranged from non-detect to 0.23 ppb (BRMW-1, collected on March 13, 2019). The concentration of 1,1-DCA exceeded the TOGS 1.1.1 standard of 5 ppb in this one sample.

  Concentrations of 1,1-DCA were detected in two of the four bedrock groundwater samples tested during the August 2019 groundwater sampling event, and the concentrations of 1,1-DCA ranged from non-detect to 290 ppb (BRMW-3, collected on August 30, 2019). The concentration of 1,1-DCA exceeded the TOGS 1.1.1 standard of 5 ppb in one of these two samples.

  Concentrations of 1,1-DCA were not detected in the two bedrock groundwater samples tested during the April 2020 groundwater sampling event.

  Concentrations of 1,1,1-TCA were not detected in the five bedrock groundwater samples tested during the September 2021 groundwater sampling event.

- Concentrations of 1,1-DCE were detected in one of the two bedrock groundwater samples tested during the March 2019 groundwater sampling event, and the concentrations of 1,1-DCE ranged from non-detect to 1.9 ppb (BRMW-2, collected on March 13, 2019). The concentration of 1,1-DCE did not exceed the TOGS 1.1.1 standard of 5 ppb in this one sample.

  Concentrations of 1,1-DCE were detected in one of the four bedrock groundwater samples tested during the August 2019 groundwater sampling event, and the concentrations of 1,1-DCE ranged from non-detect to 230 ppb (BRMW-3, collected on August 30, 2019). The concentration of 1,1-DCE exceeded the TOGS 1.1.1 standard of 5 ppb in this sample.

  Concentrations of 1,1-DCE were detected in one of the two bedrock groundwater samples tested during the April 2020 groundwater sampling event, and the concentrations of 1,1-DCE ranged from non-detect to 120 ppb (BRMW-3, collected on April 1, 2020). The concentration of 1,1-DCE exceeded the TOGS 1.1.1 standard of 5 ppb in this one sample.

Concentrations of 1,1-DCE were detected in four of the five overburden groundwater samples tested during the September 2021 groundwater sampling event, and the concentrations of 1,1-DCE ranged from non-detect to 8.6 ppb (BRMW-3, collected on September 16, 2021). The concentration of 1,1-DCE exceeded the TOGS 1.1.1 standard of 5 ppb in two of these four samples.

Total VOCs and TICs

Concentrations of total VOCs ranged from 190 ppb (BRMW-4 on April 1, 2020) to 90,700 ppb (BRMW-3 on August 30, 2019). TICs were not detected in the bedrock groundwater samples collected from the seven bedrock monitoring wells.

LNAPL

A trace of LNAPL (i.e., less than 0.01 ft.) was detected in bedrock monitoring well BRMW-3 on August 7, 2019. LNAPL was not detected in bedrock monitoring well BRMW-3 on March 6, 2020. A trace of LNAPL (i.e., less than 0.01 ft.) was detected in bedrock monitoring well BRMW-3 on August 4, 2021. LNAPL was not detected during in the other bedrock wells sampled to date.

DNAPL

DNAPL was not detected during in the bedrock wells sampled to date.

3.4 Soil Vapor

This section presents the results of the soil vapor testing completed in locations VP-1 through VP-5, and the vapor intrusion study completed in February 2020.

3.4.1 Soil Vapor Assessment

Various VOCs, including petroleum-related VOCs (e.g., benzene, 2-butanone, ethanol, toluene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, xylenes, etc.) and CVOCs (e.g., PCE, TCE, cis-1,2-DCE, vinyl chloride, etc.) were detected in the soil vapor samples collected on April 10, 2019 from soil vapor points VP-1 through VP-5. The NYSDOH does not have standards or guidance values for soil vapor. The VOCs detected in the soil vapor samples tested are summarized in Table 18, and the CVOCs detected are presented on Figure 3C. Some additional information regarding CVOCs detected in the soil vapor samples collected on April 10, 2019, is provided below.

- PCE was detected in each of the five soil vapor samples tested at concentrations ranging from 1.6 micrograms per cubic meter ($\mu g/m^3$) (VP-4) to 20 $\mu g/m^3$ (VP-2). [Note: While the NYSDEC does not have standard or guidance values for soil vapor, the indoor air standard for PCE is 30 $\mu g/m^3$.]

- TCE was detected in each of the five soil vapor samples tested at concentrations ranging from 25 $\mu g/m^3$ (VP-1) to 4,900 $\mu g/m^3$ (VP-3). [Note: While the NYSDEC does not have standard or guidance values for soil vapor, the indoor air standard for TCE is 2 $\mu g/m^3$.]

- Cis-1,2-DCE was detected in each of the five soil vapor samples tested at concentrations ranging from 16 $\mu g/m^3$ (VP-5) to 320 $\mu g/m^3$ (VP-2).

- Vinyl chloride was detected in one of the five soil vapor samples tested. The concentration of vinyl chloride in the samples ranged from non-detect to 0.55 $\mu g/m^3$ (VP-2).

3.4.2 Vapor Intrusion Evaluation

Various VOCs were detected in the sub-slab soil vapor and adjacent indoor air samples tested as part of the SVI Evaluation completed on February 25, 2020. One or more constituents (e.g., chloroform, acetone, 2-butanone, dichlorofluoromethane, 1,1-dichloroethane) were detected in the sub-slab soil vapor samples SS-1, SS-2, SS-4, and SS-5 at concentrations that exceeded the Indoor Air Commercial Benchmarks based on 90th Percentiles referenced in Table C2 of the NYSDOH Guidance Document. The corresponding indoor air samples did not have exceedances of the 90th percentile values. Various CVOCs that are referenced in Table C1 (Air guidelines values derived by the NYSDOH) and the Soil Vapor/Indoor Air Matrices referenced in the NYSDOH guidance document are discussed below.

- PCE was detected in one of the six sub-slab soil vapor samples (SS-2) at a concentration of 24.4 $\mu g/m^3$. PCE was also detected in one of the six indoor air vapor samples (IA-5) at a concentration of 0.136 $\mu g/m^3$. Based upon a comparison to Soil Vapor/Indoor Air Matrix B provided in the NYSDOH Guidance Document, mitigation due to the detected concentrations of PCE is not necessary.

- Concentrations of TCE were detected in each of the six indoor air vapor samples tested during the SVI evaluation. The concentration of TCE exceeded the NYSDOH air guideline of 2 ppb in four of these six samples. The concentrations of TCE in the indoor air samples ranged from 0.602 $\mu g/m^3$ (IA-4) to 23.6 $\mu g/m^3$ (IA-5).

Concentrations of TCE were detected in each of the six sub-slab soil vapor samples tested during the SVI evaluation. The concentrations of TCE in the sub-slab soil vapor samples ranged from 130 µg/m^3 (IA-6) to 161,000 µg/m^3 (IA-3).

Based upon a comparison to Soil Vapor/Indoor Air Matrix B provided in the NYSDOH Guidance Document, mitigation due to the detected concentrations of TCE is required at all locations tested.

- Concentrations of cis-1,2-DCE were detected in each of the six indoor air vapor samples tested during the SVI evaluation. The concentrations of cis-1,2-DCE in the indoor air samples ranged from 0.095 µg/m^3 (IA-4) to 3.71 µg/m^3 (IA-5).

  Concentrations of cis-1,2-DCE were detected in four of the six sub-slab soil vapor samples tested during the SVI evaluation. The concentrations of cis-1,2-DCE in the sub-slab soil vapor samples ranged from non-detect to 1,310 µg/m^3 (SS-3).

  Based upon a comparison to Soil Vapor/Indoor Air Matrix A provided in the NYSDOH Guidance Document, mitigation due to the detected concentrations of cis-1,2-DEC is required at locations for IA-1/SS-2, IA-2/SS-2, IA-3/SS-3, and IA-5/SS-5.

- Vinyl chloride was not detected in the six indoor air samples or the six sub-slab soil vapor samples tested during the SVI evaluation.

4.0 CONCEPTUAL SITE MODEL

The conceptual site model presented in this section identifies and describes: (1) the setting of the Site and surrounding area, (2) the subsurface conditions encountered during the various studies completed to date, (3) the known or potential sources of contamination, (4) the types of contaminants and affected media, and (5) release mechanisms and potential migration pathways.

4.1 Site Setting

The ground surface at the Site slopes down to the north from around elevation 507 ft. amsl at the southern property boundary and around elevation 506 ft amsl near the southeast corner of the building to around elevation 496 ft. amsl on the western side of the building at the base of the loading dock. The floor slab of the manufacturing portion of the building is generally level, and the surface is around elevation 498.5 ft. amsl. The ground surface along the northern/northeastern edge of the Site slopes more steeply away from the edge of the building to the railroad bed, which is around elevation 495 ft. to 497 ft. amsl. The ground surface in proximity of the Site slopes away from the East Main Street railroad overpass bridge embankment (located adjacent to the southeast of the Site) from elevation around 520 ft. amsl and also toward the east and north from a local peak elevation around 513 ft. amsl along Birch Crescent, located approximately 350 ft. to the south-southwest of the Site.

The Site is currently developed with an approximate 15,000 square-foot one- and two-story building, with asphalt-paved parking area and driveway. The building at the Site was constructed in the 1930s with additions in 1976 and 1988. An office area is located in the upper-story of the southeast portion of the building, and the manufacturing areas are located in the lower-story of the remainder of the building. Loading bays are located on the western portion of the building. A paved parking area is located south of the building, and a paved driveway is located west of the building. A concrete-paved area located north of the building is used for storage. There is one grass-covered area located on the northern portion of the Site. The floor of the office area is approximately eight feet higher than the manufacturing portion of the building.

The Site is bound to the west by a commercial property (i.e., 936 East Main Street) that is currently occupied by The Pike Company (a construction management firm) and used for storage. Prior to December 2015, 936 East Main Street was owned by Otis Lumber and used as a lumber yard and lumber mill. The Rochester Main Street Armory is located on the next parcel to the west (i.e., 900 East Main Street).

The Site is bound to the north and northeast by a railway corridor (i.e., approximately 100 ft. wide and about three to five ft. lower in elevation in the vicinity of the Site) owned by CSX Transportation Inc. Two former industrial properties (i.e., 44-55 Railroad Street and 85-97 Railroad Street) that have been converted to commercial (e.g., restaurant, storage, etc.) and/or residential uses (i.e., the upper stories of the 44-55 Railroad Street building) are located to the northeast of the CSX railroad corridor.

The Site is bound to the east and southeast by vacant land that is reportedly owned by the State of New York (i.e., associated with the East Main Street right-of-way and railroad corridor overpass bridge embankment) with the CSX railroad corridor beyond.

The Site is bound to the south by East Main Street with Circle Street beyond to the southeast. 951 East Main Street is located south of East Main Street and is the former location of Staub Dry Cleaners (i.e., NYSDEC State Superfund Site ID 828160). This property has been recently redeveloped as an asphalt-paved parking lot that supports the adjacent multi-story commercial building located at 1 Circle Street.

4.2 Geologic Setting

According to the Monroe County, New York Soil Survey, United States Department of Agriculture Soil Conservation Service, 1973 (USDA NYSS 1973), soil at the Site is classified as urban land (Ub). This listing is applied to areas where it is presumed that disturbance of soil has occurred. Based on a review of the New York State Geological Survey, "Surficial Geologic Map of New York - Fingerlakes Sheet", E.H. Muller and D.H. Cadwell, 1986, native soil in the area of the Site predominantly consists of lacustrine silt and clay that was deposited in postglacial lakes. The USDA NYSS 1973 describes the geologic remains of a series of relatively short-lived postglacial lakes that formed during the Wisconsin Stage glaciation between about 10,000 years ago and 5,000 years ago. “These lakes extended southward from the glacial front and generally drained toward the east”, including “Lake Dana, which formed as the moraine built up when the receding ice stopped for a time along a line that extended from Albion in Orleans County to Rochester, and the resulting moraine now parallels Highland Avenue in Rochester.” It is suspected that the Site is located along the slope of a moraine formed by one of the postglacial lakes (e.g., Lake Dana), as evidenced by the drop in elevation from areas located to the south and west of East Main Street to the CSX railroad corridor and areas to the northeast.

Based on a review of a geologic map from the document titled “Subsurface Structure and Stratigraphy of Rochester, New York” dated 1983 by Jolie Lynn Scherzer, bedrock underlying the overburden deposits in the area of the Site consists of Lockport Dolomite belonging to the Lockport Group, Late (Upper) Silurian Period, Paleozoic Era. A review of a “Subsurface

Bedrock Contour Map" for the Rochester East quadrangle dated 1980 by Dr. Richard A. Young indicates that the bedrock in the area of the Site generally slopes down to the northeast.

4.3 Subsurface Conditions

This section presents a discussion of the soil/fill, bedrock and groundwater conditions encountered at the Site as part of the studies completed to date. Stratigraphic cross sections designated A-A' and B-B' are presented as Figure 7A and Figure 7B, respectively (refer to Figure 2 for the location/orientation of these cross sections).

4.3.1 Soil and Fill

Based upon the test borings advanced on the Site as part of studies conducted to date (refer to Section 2.2 and the logs in Appendix B), the overburden at the Site ranges in thickness from approximately 10 ft. along the western border on the northern portion of the Site (i.e., TB-10) to greater than 25 ft. along the southern border (i.e., TB-12, TB-13, and BRMW-1). A contour map showing the estimated overburden thickness at the Site is presented as Figure 6.

As presented on Figure 5, between about 0.5 ft. and 11.5 ft. of heterogeneous fill material consisting of re-worked soil (i.e., generally sand and gravel near the fill surface, underlain by finer-grained soils in the deeper areas of fill) intermixed with anthropogenic materials (e.g., ash, coal fragments, concrete and brick fragments, etc.) underlie an approximate 0.5 ft. thick layer of building slab or asphalt/concrete pavement. Areas of relatively shallow fill/re-worked soil (i.e., ranging in thickness between 0.5 ft. and 4.0 ft.) were encountered in the vicinity, and to the east, of the former TCE Degreaser (i.e., between test borings TB-1 and TB-4). The thickness of the fill/re-worked soil encountered in test locations to the north and northeast of the former TCE Degreaser area generally increased to between around 8.5 ft. (i.e., test boring TB-33) and 11.5 ft (i.e., test boring TB-6), and then decreased to between around 4.5 ft. (i.e., test boring TB-9) and 5.5 ft (i.e., test boring TB-23) near the northeastern edge of the Site. The thickness of the fill/re-worked soil encountered in test locations to the south and southeast of the former TCE Degreaser area generally increased to between around 6 ft. (i.e., test boring TB-12) and 8 ft (i.e., test boring TB-13) along the southern boundary of the Site.

Indigenous soil below the fill consists of silty sand that generally transitions to a clayey silt above a silty sand with depth. Occasionally, gravel was also observed in this unit of soil (e.g., clayey gravel or silty gravel). This silty sand deposit was encountered across the Site, extending to depths between around 10 ft. bgs (around elevation 485 ft. amsl) in test boring TB-14, located on the west-central edge of the Site and 20 ft. bgs (around elevation 486 ft. amsl) in test boring TB-21, located on the southeast portion of the Site. Typically, a layer consisting of sand with various amounts of gravel that becomes coarser (e.g., coarse sand and gravel) with depth was encountered below this unit. Varying amounts of silt or clay, which generally decreased with depth were observed in the upper portions of this layer in some of the test borings. The layer of coarse sand and gravel ranges in thickness from between approximately 7 ft. to 10 ft. on the southern portion of the Site to between approximately 1 ft. to 4 ft. on the northern portion of the Site. Except in a few test locations (i.e., test borings TB-3, TB-13, and TB-34) where a 0.5 ft. to 1 ft. thick layer of silty clay material was encountered below the layer of coarse sand and gravel, the coarse sand and gravel layer extended to the bottom of the test borings that terminated at the bedrock surface (i.e., equipment refusal), at depths between approximately 16 ft. bgs (i.e., around elevation 481 ft. amsl, at test boring TB-17, located on the west-central edge of the Site) and 26 ft. bgs (i.e., around elevation 484 ft. amsl, at test boring BRMW-1, located on the southeast portion of the Site) The coarse sand and gravel layer was not encountered below the silty to clayey sand layer in test borings TB-10 or TB-34a (i.e., located on the northwestern edge of the Site), where equipment refusal was shallower (i.e., encountered on apparent bedrock at depths of 10.5 ft. and 9.3 ft., respectively or around elevation 489 ft. amsl).

4.3.2 Bedrock

During the advancement of the test borings, a thin layer of weathered and broken bedrock (i.e., typically less than 0.5 ft in thickness) was encountered beginning at elevations ranging between approximately 489 ft. amsl (i.e., test borings TB-10 and TB-34a, located on the northwestern edge of the Site) and 481 ft. amsl (i.e., test borings TB-15, TB-22, TB-23, TB-26, TB-32, and TB-33, located across the north-central portion of the Site, generally between the loading dock on the western edge of the Site and the eastern boundary of the Site). In the southern portion of the Site, weathered and broken bedrock was encountered beginning at approximate elevations ranging between 482 ft. amsl and 483 ft. amsl (i.e., test borings BRMW-1, TB-16, TB-21 and TB-24).

The contour map presented as Figure 8 depicts the top of competent rock across the Site. As shown, a shallow southeasterly to northwesterly trending bedrock trench is evident in the central portion of the Site [i.e., extending between about test borings TB-21 (MW-J) to about BRMW-3]. The competent bedrock surface within the trench generally dips to the northwest from a peak elevation of about 482.5 ft. amsl to about elevation 481 ft. amsl. Near the southern border of the Site, the competent bedrock surface dips gently to the south. The competent bedrock surface in the northern portion of the Site dips to the southeast between about elevation 482.5 ft. amsl near monitoring well BRMW-2 to about elevation 481 ft. amsl near monitoring well BRMW-4 and test boring TB-23 (MW-L). The bedrock surface on the northwestern portion of the Site dips steeply toward the northeast and southeast, from an apparent ridge with an elevation around 489 ft. amsl (i.e., the vicinity of test borings TB-10 and TB-34a), to a west-east trending trough around elevation 481 ft. amsl. This apparent bedrock trough (i.e., a localized low area of the competent bedrock surface) extends across the southwest-central to northeast central portion of the Site from TB-15 (MW-F) to TB-23 (MW-L). Based on the direction of the overburden groundwater flow it is assumed that this trough dips to the northeast.

Bedrock at the Site is a gray, fine grained dolomitic mudstone with horizontal fractures; occasional low-angle and high-angle fractures; and trace to little amounts of vugs. Discontinuities in the rock contain evidence of slight to moderate weathering, and these discontinuities are occasionally filled with clay and broken rock. RQD values (i.e., determined by ratio of the sum of each piece of sound rock exceeding 4 inches in length to the total length of the core sample, expressed as a percentage) for the 5-foot core sample intervals collected ranged between 52% (i.e., bedrock well BRMW-3 between elevations 475 ft. and 470 ft. amsl and bedrock well BRMW-4 between elevations 480 ft. and 475 ft. amsl) and 100% (i.e., bedrock well BRMW-3 between elevations 465 ft. and 460 ft. amsl). At each location, RQD values typically increased with depth over the total interval sampled. However, in some locations (i.e., bedrock wells BRMW-2 and BRMW-3) the RQD values in the samples collected between elevations 475 ft. and 470 ft. amsl decreased, compared to the samples collected between elevations 480 ft. and 475 ft. amsl, indicating a zone of more-frequently fractured bedrock located around 10 ft. below the bedrock surface in these areas.

4.3.3 Overburden Groundwater

As indicated on Table 3, the overburden groundwater elevations ranged between about 484.7 ft. amsl (i.e., overburden monitoring well MW-L) and 489.0 ft. amsl (i.e., overburden monitoring well MW-J) on August 7, 2019 and between about 486.3 ft. amsl (i.e., overburden monitoring well MW-L) and 491.0 ft. amsl (i.e., overburden monitoring well MW-D) on August 4, 2021. These groundwater elevations represent depths to overburden groundwater ranging between about 9.8 ft. bgs and 19.0 ft. bgs on August 7, 2019, and between about 8.3 ft. bgs and 17.1 ft. bgs on August 4, 2021. The variance in the groundwater elevations measured in the 13 overburden wells evaluated on both the August 7, 2019 and August 4, 2021 ranged between 1.6 ft. and 2.6 ft. and averaged 1.8 ft. (i.e., in each case, lower on August 7, 2019 than on August 4, 2021).

The magnitude of the variation in overburden groundwater elevation correlates to the thickness of the overburden materials that overlie the coarse sand and gravel layer located directly above the bedrock surface (refer to Section 4.3.1). Specifically, monitoring wells that exhibited the greatest variation in overburden groundwater elevation contained the thickest deposit of soil/fill over the coarse-grained soil/weathered rock. Monitoring wells that exhibited the least variation in overburden groundwater elevation contained thinner deposits of soil/fill over the coarse-grained soil/weathered rock. This correlation suggests that, while the overburden groundwater surface is generally located within the silty to clayey native soil unit (i.e., present to depths around elevation 485 ft. to 486 ft. amsl), the underlying coarse-grained soil/weathered rock is the dominant overburden groundwater water bearing zone at the Site and it is partially confined by the competent bedrock surface below and the silty to clayey native soil unit above.

Based on the groundwater levels measured in the monitoring wells at the Site on March 4, 2019, August 7, 2019 and August 4, 2021, the groundwater flow in the overburden at the Site is toward the north-northeast. Potentiometric groundwater contour maps based on the static water level measurements made in the overburden monitoring wells on August 7, 2019 and August 4, 2021 are presented on Figure 9A and Figure 9B, respectively.

4.3.4 Bedrock Groundwater

The elevation of bedrock groundwater below the central and southern portions of the Site was generally consistent over the three monitoring events presented on Table 3. Specifically, the bedrock groundwater elevations measured in monitoring wells BRMW-1 and BRMW-3 on March 4, 2019, August 7, 2019 and August 4, 2021 varied by 0.36 ft. and 0.33 ft., respectively, ranging in elevation between 480.62 ft. and 480.98 ft. amsl. (monitoring well BRMW-1) and between 480.58 ft. and 480.91 ft. amsl (monitoring well BRMW-3). The only bedrock groundwater elevation measured in monitoring well BRMW-5 (i.e., around 480.51, measured on August 4, 2021), also located on the central portion of the Site, was slightly lower than the elevations measured at monitoring wells BRMW-1 and BRMW-3, suggesting groundwater flow in this portion of the bedrock toward the east. The bedrock groundwater elevations measured are between around 0.8 ft. and 1.1 ft. below the surface elevation of the competent bedrock at monitoring well BRMW-1; between 0.5 ft. and 0.9 ft. below the surface elevation of the bedrock at monitoring well BRMW-3; and 1.8 ft. below the surface elevation at monitoring well BRMW-5.

The elevation of bedrock groundwater below the northern portion of the Site [i.e., based on measurements collected from monitoring well BRMW-2, located to the north of the apparent west-east trending bedrock surface trough in the vicinity of an area of higher bedrock located to the west (refer to Section 4.3.2)] varied by 1.03 ft., ranging in elevation between 482.31 ft. and 483.34 ft. amsl. These bedrock groundwater elevations are between approximately 0.2 ft. above and 0.8 ft. below the surface elevation of the competent bedrock encountered at monitoring well BRMW-2. The greater variance and higher elevation of the bedrock groundwater in this area (i.e., between around 1.7 ft. and 2.8 ft. higher than the bedrock groundwater elevations measured in monitoring wells BRMW-1 and BRMW-3, and BRMW-5) may be the result of a downward hydraulic gradient from an area of higher bedrock located to the west, and/or from the overburden groundwater discharging into the bedrock in this area.

The groundwater elevations measured in monitoring well BRMW-4 (i.e., located on the northeastern portion of the Site), are comparable to groundwater elevations measured in the overburden groundwater monitoring wells located in this area. It is suspected that this monitoring well is representative of the overburden groundwater and not of the bedrock groundwater. Specifically, the groundwater elevations measured in monitoring well BRMW-4 on August 7, 2019 and August 4, 2021 (i.e., 484.84 ft. and 486.74 ft. amsl, respectively) are between the elevations measured on those dates in nearby overburden monitoring wells MW-B (i.e., located hydraulically upgradient) and MW-L (i.e., located hydraulically downgradient), and the range between the elevations (i.e., around 1.9 ft.) is similar to that observed in the other overburden wells at the Site. Further, unlike elevations of bedrock groundwater elevations measured in the other bedrock monitoring wells at the Site, the bedrock groundwater elevations measured in monitoring well BRMW-4 are around 3.0 ft. and 4.9 ft. above the surface elevation of the competent bedrock at this monitoring well. The specific cause of the overburden groundwater communication in monitoring well BRMW-4 is not known. This apparent communication between the overburden and bedrock groundwater in this area may produce a mixing zone whereby overburden groundwater and bedrock groundwater converge and mix. Depending on seasonal variation, upward migration of bedrock groundwater into the overburden groundwater or downward migration of overburden groundwater into the bedrock groundwater may result.

The groundwater flow pattern measured in the bedrock monitoring wells on August 4, 2021 is presented on Figure 10. [Note: The groundwater elevation measured in BRMW-4 was not included in the bedrock groundwater flow interpolation due to the apparent communication between the overburden and bedrock groundwater in this location.] The groundwater elevations measured in monitoring wells BRMW-1 through BRMW-4 on August 7, 2019 are also presented on this figure, but groundwater contours for August 7, 2019 are not presented since monitoring well BRMW-5 was not installed at that time.

4.3.5 Groundwater Flow Rates

The results of the hydraulic conductivity testing completed in monitoring wells screened in the overburden (i.e., MW-G, MW-I, MW-J, MW-K, MW-L, MW-N, MW-Q, MW-S) and within the bedrock (i.e., BRMW-1, BRMW-2, BRMW-3, and BRMW-4) are summarized in Table 4 and discussed below.

The “slug in” and “slug out” hydraulic conductivities measured in overburden monitoring wells ranged between 1.18 ft/day or 4.48×10^{-6} m/sec and 41.11 ft./day or 1.56×10^{-4} m/sec and the geometric mean of the hydraulic conductivities measured is 2.92 ft./day or 1.11×10^{-5} m/sec.

The “slug in” and “slug out” hydraulic conductivities measured in bedrock monitoring wells ranged between 1.05 ft/day or 3.98×10^{-6} m/sec and 5.35 ft./day or 2.03×10^{-5} m/sec and the geometric mean of the hydraulic conductivities measured is 3.46 ft./day or 1.32×10^{-5} m/sec.

These values are consistent with typical hydraulic conductivity values presented in Freeze and Cherry (1979) ranging between 1×10^{-7} m/sec and 1×10^{-3} m/sec for silty sand; and between 1×10^{-6} m/sec and 1×10^{-2} m/sec for clean (coarse) sand (i.e., the overburden soil evaluated); and between 1×10^{-8} m/sec and 1×10^{-4} m/sec for fractured bedrock.

Based upon measurements made at various times during this study, the average horizontal hydraulic gradients between the monitoring wells installed within the overburden and within the bedrock at the Site ranged between about 0.006 ft/ft and 0.035 ft/ft, and 0.003 ft/ft and 0.008 ft/ft, respectively. Using the range of calculated hydraulic conductivities, the average horizontal gradients and an estimated effective porosity of 0.45 for the overburden soil and an estimated effective porosity of 0.10 for the bedrock zones, the following groundwater flow rates were calculated:

- overburden groundwater: between about 0.05 ft./day and 1.74 ft./day, with a geometric mean of about 0.12 ft./day.

- Bedrock groundwater: between about 0.08 ft./day and 0.43 ft./day, with a geometric mean of about 0.28 ft./day. [Note: Flow in the bedrock is likely dominated by flow through fracture zones and discontinuities within the bedrock.]

Note: The above groundwater flow rates will vary based upon variations in the subsurface, seasonal conditions, nearby pumping, and other factors.

4.3.6 Vertical Hydraulic Gradients

Vertical hydraulic gradients were calculated for several locations where overburden and bedrock monitoring wells are installed in proximity of each other (i.e., MW-E/BRMW-1, MW-C/BRMW-2, MW-O/BRMW-3, MW-L/BRMW-4, MW-B/BRMW-4, and MW-P/BRMW-5). These gradients were calculated using procedures outlined in USEPA document titled, *EPA On-line Tools for Site Assessment Calculation*. With the exception of BRMW-4 where the vertical gradients were negligible, the vertical gradients were downward from the overburden groundwater into the bedrock groundwater at rates ranging from 0.34 to 0.38 ft/ft (BRMW-2) to 0.89 ft/ft (BRMW-5).

4.4 Contaminants of Concern

Based upon the studies completed to date, the contaminants of concern identified and the media impacted at the Site include:

- chlorinated volatile organic compounds (i.e., TCE and associated degradation products) in soil/fill, soil vapor, overburden groundwater and bedrock groundwater;

- Petroleum-related VOCs in soil and overburden groundwater;

- Polycyclic aromatic hydrocarbon (PAH) semi-volatile organic compounds (SVOCs) in surface and subsurface HFM;

- Select metals in surface HFM (i.e., arsenic, barium and mercury), subsurface HFM (i.e., barium), and groundwater (i.e., lead, selenium, iron, manganese and sodium). [Note: Although lead and selenium were detected at concentrations in excess of respective TOGS 1.1.1 standards, they were either detected in a single sample and/or at concentrations that exceeded their respective TOGS 1.1.1 standards by less than 50% (i.e., they were within the same order of magnitude). Also, although the concentrations of iron, manganese and sodium exceeded their respective TOGS 1.1.1 standards in one or more groundwater samples tested, the concentrations measured are typical of background conditions and, as such, are not attributable to contaminants at the Site.]

4.5 Known and Potential Sources of Contamination

The known and potential sources of the contaminants of concern identified at the Site are described in this section and depicted on Figure 11

<u>Chlorinated Volatile Organic Compounds</u>

Historic TCE Degreaser – The historic TCE degreaser and an associated TCE AST were located in the vicinity of test boring TB-1 (overburden monitoring well MW-A), from approximately 1959 until approximately 1972 (refer to Figure 2). An apparent release of TCE from the area of the historic degreaser was identified as part of the studies conducted to date. Specifically, elevated PID readings (i.e., indicating VOC impacts) were measured in subsurface soil/fill samples collected from test boring TB-1 (MW-A), and in nearby test boring TB-5 [i.e., located around 12 ft. northwest of TB-1(MW-A)] beginning initially below the concrete floor slab (approximately elevation 498 ft. amsl) and extending to the bottom of each test boring (approximately elevation 483 ft. amsl). The highest PID reading recorded in each test boring was 399 ppm [i.e., test boring TB-1(MW-A) at around 11 ft. bgs or elevation 488 ft. amsl] and 280 ppm (i.e., test boring TB-5 at around 13 ft. bgs or elevation 486 ft. amsl).

CVOCs were detected in an unsaturated soil sample (collected around elevation 493 ft. amsl) from TB-1(MW-A), and in saturated soil samples collected from test borings TB-1(MW-A) and TB-5 at concentrations exceeding respective PGWSCO. CVOCs were also measured in groundwater samples collected from monitoring well MW-A at concentrations exceeding respective TOGS 1.1.1 standards by between two to four orders of magnitude. It appears that the CVOC impacts originating from this area of the Site are migrating via the overburden groundwater and bedrock groundwater across the Site toward the north and northeast (refer to Section 4.6).

Former TCE Degreaser – The former TCE degreaser was located in the vicinity of test boring TB-29 and test boring TB-30 (MW-O) from approximately 1972 until May 2019 (refer to Figure 2). An apparent release of TCE from the area of the former TCE degreaser was identified. Specifically, elevated PID readings were measured in subsurface soil/fill samples collected from test borings advanced within the former TCE degreaser pit, starting just below the concrete floor slab (approximately elevation 496 ft. amsl) in test boring TB-30(MW-O), and approximately 3 ft. below the concrete floor slab in test boring TB-29 (approximately elevation 493 ft. amsl). Elevated PID readings extended to the bottom of test boring TB-30(MW-O) (approximately elevation 482 ft. amsl), and the highest PID reading, measured at 6 ft. bgs (approximately elevation 490 ft. amsl), exceeded the range of the instrument (i.e., >15,000 ppm). Elevated PID readings extended to 9 ft. bgs in test boring TB-29 (approximately elevation 486 ft. amsl) and the highest PID reading recorded was 115 ppm at approximately 6 ft. bgs (approximately elevation 490 ft. amsl). CVOCs were detected in unsaturated soil samples collected from test borings TB-29 and TB-30 (MW-O) (i.e., from depths between approximately 4 ft. and 8 ft. bgs or between elevation 486 ft. and 490 ft. amsl) at concentrations exceeding respective PGWSCO and/or ISCO. CVOCs were also measured in groundwater samples collected from monitoring wells MW-O, MW-N (i.e., overburden monitoring well located around 10 ft. to the north of MW-O) and BRMW-3 (i.e., bedrock monitoring well located around 13 ft. to the east of MW-O) at concentrations exceeding respective TOGS 1.1.1 standards by between one and five orders of magnitude. It is suspected that the CVOC impacts originating from this area of the Site are migrating via the overburden groundwater and bedrock groundwater across the Site toward the north and northeast (refer to Section 4.6).

Upgradient (off-site) Source – CVOCs were measured in groundwater samples collected from bedrock monitoring well BRMW-1 between March 2019 and September 2021 at concentrations exceeding respective TOGS 1.1.1 standards by up to two orders of magnitude. Bedrock monitoring well BRMW-1 is located on the southern boundary of the Site, in the vicinity of NYSDEC Site 828160 (former Staub Textile Services Inc.). Lower concentrations of CVOCs have been consistently detected between March 2018/2019 and September 2021 in groundwater samples collected from overburden monitoring wells located on the southern and western portions of the Site (i.e., monitoring wells MW-D, MW-E, MW-F, MW-I MW-J and MW-M), which are considered to be located hydraulically upgradient of the historic TCE degreaser and the former TCE degreaser (described above). Elevated PID readings were measured in subsurface soil samples collected from within 2-4 ft. of the bottom of test boring TB-13 (MW-E) and test boring BRMW-1 (i.e., a peak PID of 147 ppm around elevation 484 ft. amsl in test boring TB-13 and 332 ppm around elevation 485 ft. amsl in test boring BRMW-1), indicating that the CVOC may be migrating from the overburden groundwater zone into the bedrock groundwater zone in the vicinity of these test locations.

The concentrations of CVOCs detected in the samples collected from BRMW-1 that were tested contained predominately cis-1,2-DCE, while the samples collected from other bedrock wells typically contained higher concentrations of TCE than cis-1,2-DCE. In addition, the samples from BRMW-1 also contained detectable concentrations of PCE.
The CVOC impacts identified at the southern portion of the Site, do not appear to be of sufficient magnitude to be addressed during future remediation efforts at the Site. However, further study (and/or remedial efforts) by others (i.e., responsible parties for NYSDEC Site 828160) may be warranted to address the CVOC impact identified in the groundwater on the southern portion of the Site.

Petroleum-related VOCs

Low concentrations of petroleum-related VOCs (i.e., below USCO and SCL) were detected in an unsaturated soil sample collected from test boring TB-21 (MW-J), around elevation 497 ft. amsl and a PID reading of 59 ppm was recorded over this soil sample at the time of drilling. Also, concentrations of petroleum-related VOCs exceeding PGWSCO/SCL were detected in a saturated soil sample collected from test boring TB-20 (MW-I), around elevation 486 ft. amsl, and a PID reading of 360 ppm was recorded over this soil sample at the time of drilling. Monitoring well MW-I is located hydraulically downgradient from monitoring well MW-J.

One or more petroleum-related VOCs were detected in groundwater samples collected from monitoring wells MW-I and MW-J in March 2019, and in a groundwater sample collected during the same event from monitoring well MW-A, which is located hydraulically downgradient from monitoring well MW-I. While the petroleum-related VOCs detected in the groundwater sample from monitoring well MW-J were below respective TOGS 1.1.1 standards, concentrations of 1,2,4-trimethylbenzene in the groundwater samples collected from monitoring wells MW-A and MW-I, as well as the concentrations of 1,3,5-trimethylbenzene, 4-isopropyltoluene, m,p-xylenes, n-butylbenzene, n-propylbenzene, sec-butylbenzene and tert-butylbenzene in the groundwater sample from MW-I exceeded TOGS 1.1.1 standards. However, the concentrations of petroleum-related VOCs (if detected) in the groundwater samples collected from these locations during the subsequent three sampling events (i.e., August 2019, March 2020 and September 2021), were below respective TOGS 1.1.1 standards. Further, only one of the above referenced petroleum-related VOCs (i.e., n-propylbenzene detected in the groundwater sample from monitoring well MW-I) was detected in the groundwater samples collected from these three monitoring wells during the September 2021 monitoring event. However, low concentrations of several petroleum-related VOCs were detected in the groundwater sample collected during the September 2021 groundwater monitoring event from monitoring well MW-P, and the concentration of n-propylbenzene in this sample (i.e., 8 ppb) slightly exceeded the TOGS 1.1.1 standard of 5 ppb. [Note: Monitoring well MW-P is located hydraulically downgradient from monitoring well MW-J, and hydraulically cross gradient from monitoring wells MW-I and MW-A. Monitoring well MW-P was installed in July 2021 and was not sampled prior to September 2021.]

While petroleum-related VOCs were detected in soil and overburden groundwater at concentrations exceeding SCG, the source of this impact has not been identified and the most recent test results were below TOGS 1.1.1 standards.

Historic Fill Material

HFM impacted by PAH and select metals was identified in some locations at the Site, however a. specific source of this impact was not identified. The areas where HFM containing compounds/analytes at concentrations exceeding PGWSCO are identified below.

Surface and subsurface HFM samples containing concentrations of PAH exceeding PGWSCO and/or SCL were collected from surface soil samples SS-1 and SS-2 (located north of the building near the Site boundary with the CSX railroad corridor), SS-3 and SS-4 (located in the vicinity of the electrical transformer near the office portion of the building), from depths between approximately 2 ft. and 3 ft. below the surface of the concrete floor slab at test boring TB-5 (located to the north of the Historic TCE Degreaser), and between approximately 7 ft. and 8 ft. below the surface of the concrete pad at test boring TB-10 (located in the concrete-paved storage yard in the northwest portion of the Site). The highest total concentration of PAH (i.e., 2,599 ppm) was measured in the HFM collected from test boing TB-10. The HFM in the sample tested from TB-10 is ash intermixed with silty sand and gravel. [Note: This material was encountered around elevation 486 ft. amsl, directly above native silty clay, which is present in an approximate 2.5 ft. thick layer above apparent bedrock. Although several PAH were detected in the groundwater sample collected from nearby monitoring well MW-C, the concentrations of the detected PAH were below respective TOGS 1.1.1 standards, indicating that the HFM is not the source of PAH impact in the overburden groundwater.]

Surface and subsurface HFM samples containing concentrations of one or more metals exceeding PGWSCO were measured in surface soil samples SS-1 (i.e., arsenic and barium) and SS-2 (i.e., mercury), and approximately 3 ft. below the surface of the concrete floor slab at test boring TB-26 (MW-L) (i.e., barium). [Note: Although arsenic, barium and/or mercury were detected in one or more overburden groundwater samples tested for this study, the concentrations detected were below the respective TOGS 1.1.1 standards, indicating that the HFM materials containing arsenic, barium and/or mercury are not impacting the overburden groundwater at the Site. Further, the metals iron, lead, selenium, manganese and sodium were measured in one or more overburden groundwater sample at concentrations exceeding respective TOGS 1.1.1 standards. However, the concentrations of these metals did not exceed the respective PGWSCO, indicating that HFM is not the source of the elevated concentrations of these metals in the overburden groundwater at the Site.]

4.6 Migration Pathways

Based on the distribution patterns of the contaminants of concern and the subsurface conditions at the Site, the suspected migration pathways from the identified (and potential) source areas are discussed in this section.

<u>Chlorinated Volatile Organic Compounds</u>

The primary route of migration of CVOCs at the Site from the historic and former TCE degreasers is via leaching from the soil/fill into the groundwater at the Site and into soil vapor/indoor air.

As shown on Figure 3A and Figure 3B, the highest concentrations of TCE were detected in the soil and groundwater in proximity of the former and historic degreasers (e.g., test borings TB-1, TB-4, TB-25, TB-29, and TB-30 and monitoring wells MW-N, MW-O, and MW-A). To the north of these locations, particularly in the central portion of the Site (i.e., monitoring wells MW-K, MW-B, and MW-L), lower concentrations of TCE and breakdown products are present. This distribution pattern is consistent with the overburden groundwater flow pattern depicted on Figure 9A and 9B, and the area of the Site where the thickest deposits of coarse-grained soil/weathered rock is evident. The downward vertical hydraulic gradient from the overburden groundwater into the bedrock groundwater, (and the apparent overburden/bedrock mixing zone in the area of bedrock monitoring well BRMW-4) suggests a migration pathway from the coarse-grained soil/weathered rock into the bedrock groundwater. The following table supports this migration pathway.

Monitoring Well	Sample Date	Total CVOC Concentration in Overburden Well (ppb)	Total CVOC Concentration in Bedrock Well (ppb)
MW-E/BRMW-1	March 2019	3.04	352
	August 2019	5.61	223
	September 2021	3.64	257
MW-C/BRMW-2	March 2019	66.87	1,490.6
	August 2019	429	1,706.9
	September 2021	176.92	2,348
MW-O/BRMW-3	August 2019	306,540	90,400
	April 2020	595,560	70,160
	September 2021	64,529	4,794.4
MW-L/BRMW-4	August 2019	656.6	720.4
	April 2020	251	190
	September 2021	1,279.1	8,210.5
MW-P/BRMW-5	September 2021	10.13	10,740

The CVOC distribution pattern within the bedrock is consistent with the groundwater flow pattern depicted on Figure 10. The total CVOC concentrations measured in the bedrock monitoring wells during the September 2021 sample event (i.e., the only event when all five bedrock wells were present and sampled) are summarized below.

Monitoring Well	Total CVOC Concentration	Remarks
BRMW-1	257 ppb	Located adjacent to the southern property line and downgradient of suspected upgradient source area
BRMW-2	2,348 ppb	Located near the northwestern property line and hydraulically upgradient of other bedrock monitoring wells at the Site
BRMW-3	4,794.4 ppb	Located in proximity of the former TCE degreaser
BRMW-4	8,210.5 ppb	Located in a suspected mixing zone of the overburden and bedrock groundwater
BRMW-5	10,740 ppb	Located hydraulically downgradient relative to the other bedrock monitoring wells and the suspected overburden/bedrock mixing zone

The extent of impact within the bedrock groundwater beyond monitoring well BRMW-5 (i.e., as groundwater flows towards the east/northeast) is not known, but concentrations may decrease via natural attenuation. However, additional study is required to confirm this possibility.

Based upon the groundwater flow pattern in the northwestern portion of the Site (refer to Figure 9A, Figure 9B and Figure 10), the migration pathway of CVOC impacts to these locations cannot be identified by the information collected to date (i.e., groundwater elevations measured in overburden groundwater monitoring well MW-C and bedrock groundwater monitoring well BRMW-2, suggest that these monitoring wells are located hydraulically upgradient of nearby overburden and bedrock monitoring wells. Therefore, migration of CVOCs from the area of the Historic TCE degreaser and/or Former TCE degreaser to the area of monitoring wells MW-C and BRMW-2 via the overburden and/or bedrock groundwater flow is not supported by the conceptual site model presented herein, and additional data are required to assess the source of the CVOC impact in monitoring wells MW-C and BRMW-2.

[Note: evidence for preferential migration of CVOCs via utility corridors (including the crock located in the southwestern portion of the building) was not identified during the studies completed to date.]

CVOC impact within the soil vapor appears to be more prevalent in the north and east portions of the Site. As shown on Figure 3C, the maximum concentration of TCE in the soil vapor samples was measured in samples collected from the north and east property boundaries. Specifically, from soil vapor probe VP-3 (TCE concentration of 4,900 $\mu g/m^3$) which is located on the north property boundary; from soil vapor probe VP-2 (TCE concentration of 3,200 $\mu g/m^3$) which is located on the northeast property boundary; and, from soil vapor probe VP-5 (TCE concentration of 2,600 $\mu g/m^3$) which is located on the east property boundary. The concentration of TCE in the soil vapor sample collected from the west property boundary was approximately an order of magnitude less than these samples (i.e., 560 $\mu g/m^3$ in soil vapor probe VP-4). The concentration of TCE in the soil vapor sample collected from the south property boundary was approximately two orders of magnitude less than sample VP-2 (i.e., 2.5 $\mu g/m^3$ in soil vapor probe VP-1). The extent of soil vapor impact beyond the property line (and how the approximate 100 ft. wide unpaved railroad corridor may contribute to the dissipation of soil vapor at it migrates below this area) is not known.

The majority of impacts observed in the sub-slab soil vapor samples appeared to be attributable to TCE originating in the area of the historic and former TCE degreasers. The maximum concentration of TCE in the sub-slab soil vapor samples was observed in the sample collected in the northwest portion of the property (i.e., a concentration of 161,000 $\mu g/m^3$ in sub-slab soil vapor sample SS-3). The majority of the other sub-slab soil vapor samples were approximately two orders of magnitude less than this sample. Mitigation to preclude the migration of CVOCs into the building at the Site is warranted.

Petroleum-related VOCs

The primary route of migration of petroleum-related VOCs from the apparent impacts at the Site to soil/fill on the south-central portion of the Site is leaching into the overburden groundwater and/or soil vapor.

As outlined in Section 4.5, impacts from petroleum related VOCs to unsaturated soil in the vicinity of test boring TB-21 (MW-J) appear to have migrated to the saturated soil and overburden groundwater in the vicinity of test boring TB-20 (MW-I), and to the overburden groundwater in the vicinity of monitoring well MW-A and MW-P. However, the petroleum impacts to soil and groundwater appear to be limited to this area of the Site, and may be dissipating, evidenced by the absence of petroleum-related VOC concentrations in groundwater samples collected from other areas of the Site, and the decrease in concentration (or absence) of petroleum-related VOCs measured in groundwater samples collected from monitoring wells MW-A and MW-I and MW-J between March 2019 and September 2021.

Low concentrations of petroleum-related VOCs were measured in each of the soil vapor samples collected from the soil vapor points installed around the perimeter of the Site (i.e., VP-1 through VP-5), suggesting that background levels of petroleum-related VOCs may be present in the soil vapor in the vicinity of the Site. Specifically, the total concentration of the petroleum-related VOCs (i.e., 1,2,4-trimethylbenzene 1,3,5-trimethylbenzene, o-xylenes, m,p-xylenes, ethylbenzene, and/or toluene where detected) ranged between approximately 4.0 $\mu g/m^3$ in soil vapor sample VP-3 to approximately 17.1 $\mu g/m^3$ in nearby soil vapor sample VP-2 (i.e., both located along the northern Site boundary). Background-level concentrations of petroleum related VOCs were also measured in sub-slab soil vapor samples collected from northeastern (i.e., sub-slab soil vapor sample SS-6) and west-central (i.e., soil vapor sample SS-2) portions of the building, while petroleum-related VOCs were not detected in sub-slab soil vapor samples collected from the southwestern (i.e., sub-slab soil vapor sample SS-1) or northwestern (i.e., sub-slab soil vapor sample SS-3) portion of the building. However, concentrations of petroleum-related VOCs exceeding the apparent background level were detected in the sub-slab soil vapor samples collected from below the southeastern portion of the building, in the vicinity of where petroleum-related VOCs have been identified in overburden groundwater. Specifically, petroleum related VOCs (i.e., predominantly toluene, and lesser amounts of 1,2,4-trimethylbenzene, benzene, and/or o-xylenes, where detected) were measured in sub-slab soil vapor samples SS-4 and SS-5 at total concentrations of approximately 74.9 $\mu g/m^3$ and 35.9 $\mu g/m^3$, respectively.

Historic Fill Material

The migration of COC, which were identified in surface and/or subsurface HFM (i.e., PAH SVOCs and/or select metals) to other media (e.g., groundwater) was not identified during the studied completed to date. Further, it is unlikely that the HFM located below the paved areas of the Site (i.e., building slab, concrete patio and asphalt pavement) is susceptible to physical migration.

5.0 SUMMARY AND CONCLUSIONS

Summary and conclusions of the studies completed to date are provided below.

- RSTW has occupied the Site since the 1950s to operate an industrial facility that treats steel (i.e., anneals, hardens, straightens, etc.). As part of this process, TCE degreasing was completed at the Site between 1959 and May 2019 in two locations (i.e., a historic TCE degreaser located in the south-central portion of the manufacturing portion of the RSTW building that operated between 1959 and 1972, and a former TCE degreaser located in the southwestern portion of the manufacturing portion of the RSTW building that operated between 1972 and May 2019).

- RSTW entered the BCP as a Participant in accordance with Brownfield Cleanup Agreement (BCA) Index # C828210, which was executed on December 7, 2018.

- To assess environmental conditions at the Site pursuant to the evaluation of the need for and type of remediation that may be required, various studies have been completed to date, including:

    - The advancement of 35 overburden test borings in various locations throughout the Site, and the conversion of 19 of these test borings into overburden groundwater monitoring wells.

    - The advancement of four test borings into the top twenty feet of competent bedrock and one test boring into the top ten feet of competent bedrock, and the conversion of each these test borings into bedrock groundwater monitoring wells.

    - The installation of five soil vapor probes near the property lines of the Site.

    - The completion of a vapor intrusion study that included a product inventory and the collection of paired sub-slab and indoor air samples from six locations (i.e., collected from the different concrete slabs of the current RSTW building) and an outdoor background air sample.

    - The collection and testing of representative samples of soil/fill, groundwater, and soil vapor and air collected at various times between 2016 and 2021 from surface soil/fill, test borings, monitoring wells, soil vapor probes, sub-slab/indoor air, and outdoor air.

- Based on the test borings completed, the overburden at the Site ranges in thickness from about 10 ft. along the western border on the northern portion of the Site to greater than 25 ft. along the southern border. The overburden consists of a combination of fill (i.e., reworked soil intermixed in some areas with ash, coal fragments, concrete and brick fragments, etc.) that ranges in thickness from about 0.5 ft. to 11.5 ft. overlaying indigenous deposits. The indigenous deposits consist of silty sand that generally transitions to a clayey silt above a silty sand with depth. In some locations (particularly beneath the RSTW building in the central portion of the Site), a layer of coarse-grained soil/weathered rock was identified above competent bedrock.

- Bedrock underlying the overburden deposits at the Site consists of Lockport Dolomite. A layer of coarse material (i.e., sand and gravel/weathered and broken bedrock), up to ten feet thick depending on location, overlies competent bedrock in some portions of the Site. The competent bedrock surface generally slopes in a northerly/northeasterly direction with localized variations. Specifically, a shallow southeasterly to northwesterly trending bedrock trench is evident in the central portion of the Site and the bedrock surface within the trench generally dips to the northwest. Near the southern border of the Site, the competent bedrock surface dips gently to the south, and the competent bedrock surface in the northwestern portion of the Site dips to the southeast. The bedrock surface on the northwestern portion of the Site dips steeply toward the northeast and southeast and more gradually toward the south to a west-east trending trough (i.e., an apparent low area in the competent bedrock) that extends to the northeast central portion of the Site.

- The groundwater flow in the overburden at the Site is generally toward the north-northeast with localized variations. The groundwater flow in the bedrock appears to be generally to the east across the Site, but based on regional groundwater flow patterns a northeasterly flow away from the Site is likely. In the north-central portion of the Site an apparent overburden and bedrock groundwater mixing zone is evident.

- Based on slug testing, the calculated geometric mean of horizontal hydraulic conductivity within the overburden groundwater is 2.92 ft./day or 1.11 x 10^{-5} m/sec, and 3.46 ft./day or 1.32 x 10^{-5} m/sec within the bedrock groundwater. The horizonal hydraulic gradients measured in the overburden and bedrock monitoring wells ranged between 0.006 ft/ft and 0.035 ft/ft, and 0.003 ft/ft and 0.008 ft/ft, respectively. Using estimated effective porosities of 0.45 for the overburden and 0.10 for the bedrock, estimated flow rates of between about 0.05 ft./day and 1.74 ft./day, with a geometric mean of about 0.12 ft./day were calculated for overburden groundwater, and between about 0.08 ft./day and 0.43 ft./day, with a geometric mean of about 0.28 ft./day for bedrock groundwater. It is noted that these rates will vary based upon localized conditions, nearby pumping or other conditions.

- Except in the north central portion of the Site where the vertical gradients are negligible, the vertical hydraulic gradients are downward from the overburden groundwater into the bedrock groundwater at rates ranging from about 0.34 ft/ft to 0.89 ft/ft.

- The contaminants of concern identified and the media impacted at the Site include:

  - Chlorinated volatile organic compounds (i.e., TCE and associated degradation products) in soil/fill, soil vapor, overburden groundwater and bedrock groundwater;

  - Petroleum-related VOCs in soil, overburden groundwater, and soil vapor; and

  - Polycyclic aromatic hydrocarbons (PAHs) and select metals (i.e., arsenic, barium and mercury) in surface and subsurface HFM.

- The primary source area(s) of the CVOC impact identified at the Site are the historic and former TCE degreasers that operated between 1959 and May 2019. However, NYSDEC Site 828160 (former Staub Textile Services Inc.) appears to be a source of cis-1,2 DCE impact on the southern portion of the Site.

- While petroleum-related VOCs were detected in soil and overburden groundwater in a localized area of the Site at concentrations exceeding SCG, the specific source of this impact (e.g., a leaking tank, petroleum-impacted fill material, etc.) was not identified. Furthermore, petroleum-related VOC concentrations decreased in recent sampling events to levels below SCG. As such, although petroleum-related VOCs are identified as contaminants of concern, further study or remediation are not deemed necessary to address petroleum-related VOCs at the Site.

- HFM containing concentrations of PAHs and arsenic, barium and lead above SCGs was identified in some locations, but concentrations of these constituents exceeding SCG were not measured within the groundwater. As such, HFM is not considered a source area requiring additional study or remediation (other than the possible placement of a cover where HFM is present in exposed surface soil).

- The primary route of migration of CVOCs from the historic and former TCE degreasers is via leaching from the soil/fill into the groundwater at the Site and into soil vapor/indoor air.

- CVOC impact leaching into the groundwater appears to enter a coarse-grained soil/weathered rock deposit where it migrates away from the TCE degreasers generally in a northerly direction (i.e., particularly in the central portion of the Site). In addition, some CVOC impact in the groundwater at the Site may be attributable to an upgradient off-site source (i.e., NYSDEC Site 828160).

- The downward vertical hydraulic gradient from the overburden into the bedrock, and the apparent mixing zone evident in the north central portion of the Site, explain the higher CVOC concentrations found in the bedrock groundwater during recent sampling events than the CVOC concentrations detected in the overburden groundwater.

- The CVOC distribution pattern within the bedrock groundwater is supported by the bedrock groundwater flow pattern that shows the most-elevated CVOC impact within the bedrock monitoring well located within the apparent mixing zone and the downgradient bedrock monitoring well. The extent of impact within the bedrock groundwater is not known, but concentrations may dissipate via natural attenuation as groundwater flows away from the Site.

- CVOC impacts within the soil vapor appear to be more prevalent in the north and east portions of the Site. The extent of soil vapor impact is unknown, but the concentration of CVOCs in soil vapor will probably decline with distance.

- The majority of impacts observed in the sub-slab soil vapor samples appear to be attributable to TCE originating in the area of the historic and former TCE degreasers. Based on the vapor intrusion testing completed, vapor mitigation within the RSTW building is warranted. [Note: An Interim Remedial Measures Work Plan for mitigation of potential soil vapor intrusion at the Site was submitted to the NYSDEC in July 2021.]

Data Gaps

The following data gaps requiring additional study/evaluation have been identified based on the studies completed to date.

- The migration pathway of CVOCs via overburden and/or bedrock groundwater from the source areas identified at the Site to the monitoring wells located on the northwestern portion of the site (i.e., MW-C and BRMW-2) has not been confirmed.

- The overburden and bedrock zones appear to merge in the area of bedrock monitoring well BRMW-4 creating an apparent mixing zone: however, the nature and extent of this apparent mixing zone is not known

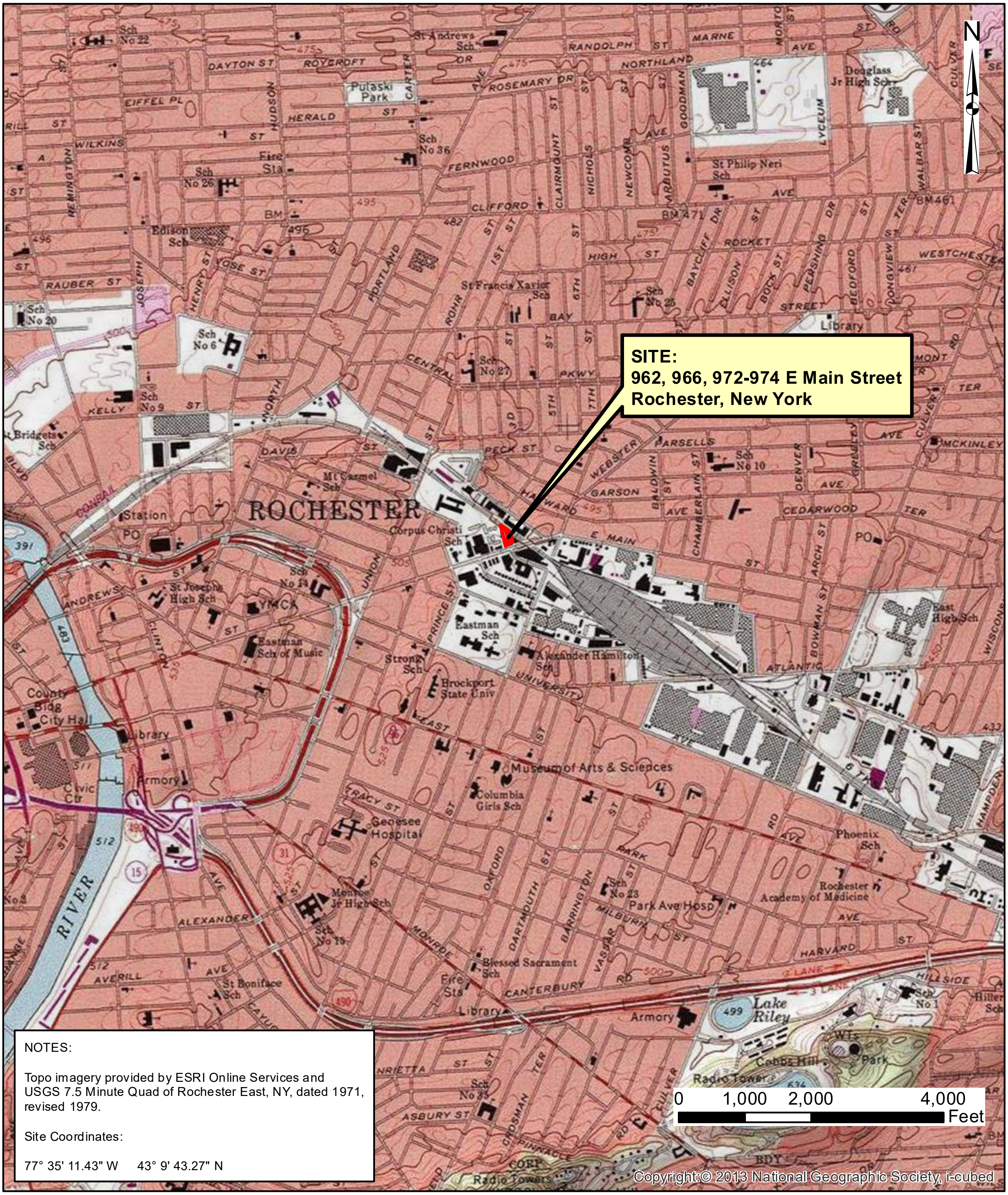
- CVOC impacts were identified in the bedrock groundwater near the eastern property boundary (i.e., BRMW-5); however, the extent of impact is not known.

- CVOC impacts were identified in soil vapor at the Site; however, the extent of possible impact to the east and northeast is not known.

- CVOC soil vapor impact requiring mitigation at the Site was identified via vapor intrusion testing; however, the type and extent of mitigation that will be needed has not been confirmed. The measures outlined in the Interim Remedial Measures Work Plan submitted to the NYSDEC in July 2021 must be completed to determine the mitigation that will be needed.

- The seasonal variation of groundwater flow patterns (i.e., bedrock and overburden zones) at the Site, and their effect on the migration patterns of CVOCs (if any), has not been confirmed.

FIGURES



NOTES:

Topo imagery provided by ESRI Online Services and USGS 7.5 Minute Quad of Rochester East, NY, dated 1971, revised 1979.

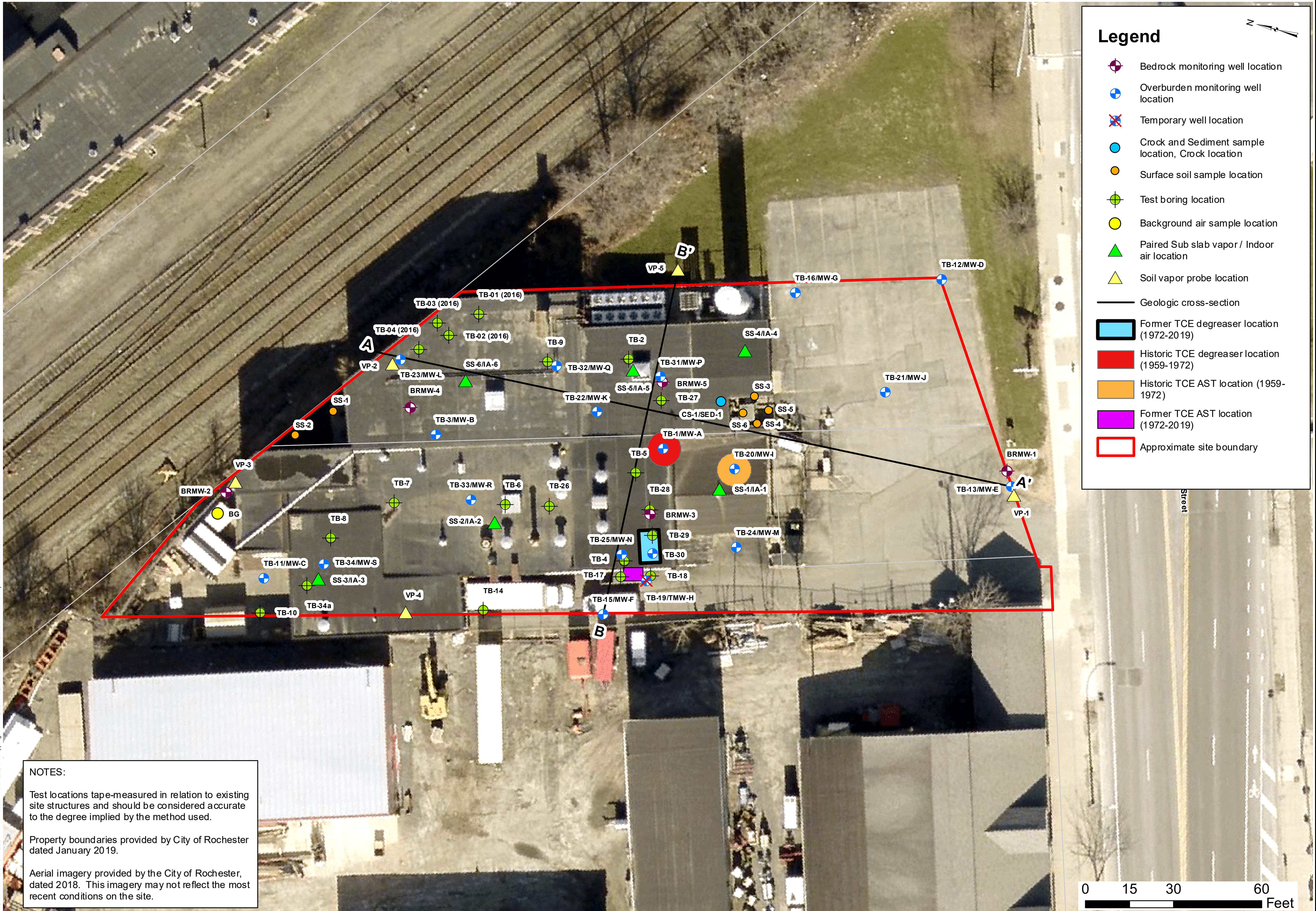
Site Coordinates:

77° 35' 11.43" W 43° 9' 43.27" N

Document Path: E:\GIS Mapping\RSTW5491R-18RSTW\RI_RAA\5491R-06- Locus.mxd

Last Date Saved: 19 Dec 2018

Date 02-20-2018 Drawn By CPS Scale AS NOTED	day DAY ENVIRONMENTAL, INC. Environmental Consultants Rochester, New York 14606 New York, New York 10170	Project Title 962, 966, 972-974 EAST MAIN STREET ROCHESTER, NEW YORK NYSDEC SITE NO. C828210 Drawing Title Project Locus Map	Project No. 5491R-18 FIGURE 1



NOTES:

Test locations tape-measured in relation to existing site structures and should be considered accurate to the degree implied by the method used.

Property boundaries provided by City of Rochester dated January 2019.

Aerial imagery provided by the City of Rochester, dated 2018. This imagery may not reflect the most recent conditions on the site.

Last Date Saved: 07 Dec 2021 Document Path: E:\GIS Mapping\RSTW\5491R-18RSTW\IIR\5491R-02-IIR-Master Sample Location Plan.mxd

DATE	DATE DRAWN	DATE ISSUED
11-2021	11-2021	11-30-2021

PROJECT MANAGER	DRAWN BY	SCALE
HMM	CPS	AS NOTED

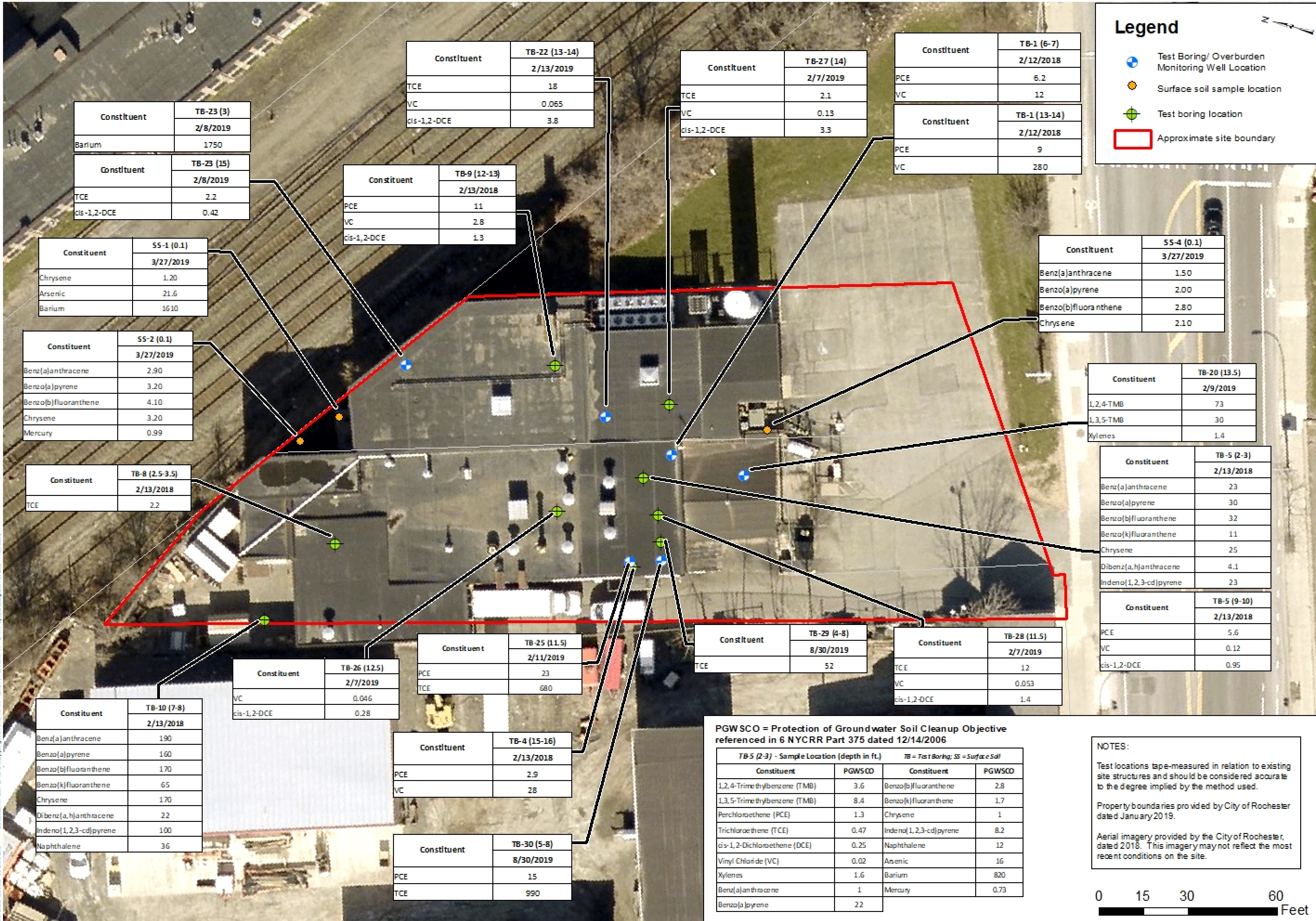
day
DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170

Project Title
962, 966, 972-974 EAST MAIN STREET
ROCHESTER, NEW YORK
NYSDEC SITE NO. C828210

Drawing Title
Site Plan with Sample Locations

Project No.
5491R-18

FIGURE 2



Legend

- Test Boring/ Overburden Monitoring Well Location
- Surface soil sample location
- Test boring location
- Approximate site boundary

Constituent	TB-23 (3)
	2/8/2019
Barium	1750

Constituent	TB-23 (15)
	2/8/2019
TCE	2.2
cis-1,2-DCE	0.42

Constituent	TB-22 (13-14)
	2/13/2019
TCE	18
VC	0.065
cis-1,2-DCE	3.8

Constituent	TB-27 (14)
	2/7/2019
TCE	2.1
VC	0.13
cis-1,2-DCE	3.3

Constituent	TB-1 (6-7)
	2/12/2018
PCE	6.2
VC	12

Constituent	TB-1 (13-14)
	2/12/2018
PCE	9
VC	280

Constituent	TB-9 (12-13)
	2/13/2018
PCE	11
VC	2.8
cis-1,2-DCE	1.3

Constituent	SS-1 (0.1)
	3/27/2019
Chrysene	1.20
Arsenic	21.6
Barium	1610

Constituent	SS-4 (0.1)
	3/27/2019
Benz(a)anthracene	1.50
Benzo(a)pyrene	2.00
Benzo(b)fluoranthene	2.80
Chrysene	2.10

Constituent	SS-2 (0.1)
	3/27/2019
Benz(a)anthracene	2.90
Benzo(a)pyrene	3.20
Benzo(b)fluoranthene	4.10
Chrysene	3.20
Mercury	0.99

Constituent	TB-20 (13.5)
	2/9/2019
1,2,4-TMB	73
1,3,5-TMB	30
Xylenes	1.4

Constituent	TB-8 (2.5-3.5)
	2/13/2018
TCE	2.2

Constituent	TB-5 (2-3)
	2/13/2018
Benz(a)anthracene	23
Benzo(a)pyrene	30
Benzo(b)fluoranthene	32
Benzo(k)fluoranthene	11
Chrysene	25
Dibenz(a,h)anthracene	4.1
Indeno(1,2,3-cd)pyrene	23

Constituent	TB-5 (9-10)
	2/13/2018
PCE	5.6
VC	0.12
cis-1,2-DCE	0.95

Constituent	TB-25 (11.5)
	2/11/2019
PCE	23
TCE	680

Constituent	TB-29 (4-8)
	8/30/2019
TCE	52

Constituent	TB-28 (11.5)
	2/7/2019
TCE	12
VC	0.053
cis-1,2-DCE	1.4

Constituent	TB-26 (12.5)
	2/7/2019
VC	0.046
cis-1,2-DCE	0.28

Constituent	TB-10 (7-8)
	2/13/2018
Benz(a)anthracene	190
Benzo(a)pyrene	160
Benzo(b)fluoranthene	170
Benzo(k)fluoranthene	65
Chrysene	170
Dibenz(a,h)anthracene	22
Indeno(1,2,3-cd)pyrene	100
Naphthalene	36

Constituent	TB-4 (15-16)
	2/13/2018
PCE	2.9
VC	28

Constituent	TB-30 (5-8)
	8/30/2019
PCE	15
TCE	990

PGWSCO = Protection of Groundwater Soil Cleanup Objective referenced in 6 NYCRR Part 375 dated 12/14/2006

TB-5 (2-3) - Sample Location (depth in ft.) *TB = Test Boring; SS = Surface Soil*

Constituent	PGWSCO	Constituent	PGWSCO
1,2,4-Trimethylbenzene (TMB)	3.6	Benzo(b)fluoranthene	2.8
1,3,5-Trimethylbenzene (TMB)	8.4	Benzo(k)fluoranthene	1.7
Perchloroethene (PCE)	1.3	Chrysene	1
Trichloroethene (TCE)	0.47	Indeno(1,2,3-cd)pyrene	8.2
cis-1,2-Dichloroethene (DCE)	0.25	Naphthalene	12
Vinyl Chloride (VC)	0.02	Arsenic	16
Xylenes	1.6	Barium	820
Benz(a)anthracene	1	Mercury	0.73
Benzo(a)pyrene	22		

NOTES:

Test locations tape-measured in relation to existing site structures and should be considered accurate to the degree implied by the method used.

Property boundaries provided by City of Rochester dated January 2019.

Aerial imagery provided by the City of Rochester, dated 2018. This imagery may not reflect the most recent conditions on the site.

DATE 11-2021
DATE DRAWN 11-2021
DATE ISSUED 11-30-2021
PROJECT MANAGER HMM
DRAWN BY CPS
SCALE AS NOTED

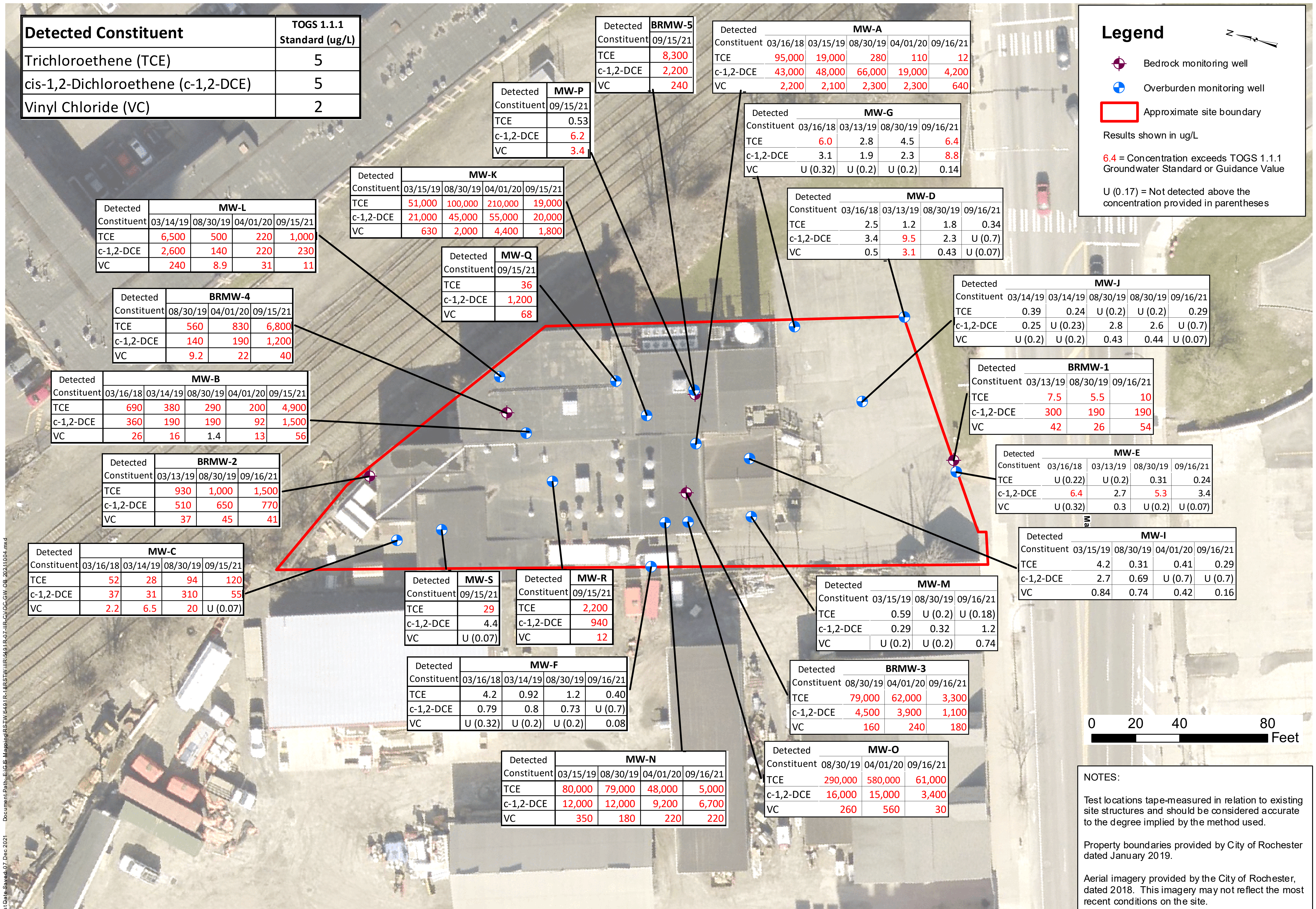
DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170

Project Title: 962, 966, 972-974 EAST MAIN STREET, ROCHESTER, NEW YORK, NYSDEC SITE NO. C828210

Drawing Title: Soil/Fill Exceedances of PGWSCO

Project No. 5491R-18

FIGURE 3A



Detected Constituent	TOGS 1.1.1 Standard (ug/L)
Trichloroethene (TCE)	5
cis-1,2-Dichloroethene (c-1,2-DCE)	5
Vinyl Chloride (VC)	2

Detected Constituent	BRMW-5 09/15/21
TCE	8,300
c-1,2-DCE	2,200
VC	240

Detected Constituent	MW-A 03/16/18	03/15/19	08/30/19	04/01/20	09/16/21
TCE	95,000	19,000	280	110	12
c-1,2-DCE	43,000	48,000	66,000	19,000	4,200
VC	2,200	2,100	2,300	2,300	640

Detected Constituent	MW-P 09/15/21
TCE	0.53
c-1,2-DCE	6.2
VC	3.4

Detected Constituent	MW-G 03/16/18	03/13/19	08/30/19	09/16/21
TCE	6.0	2.8	4.5	6.4
c-1,2-DCE	3.1	1.9	2.3	8.8
VC	U (0.32)	U (0.2)	U (0.2)	0.14

Detected Constituent	MW-K 03/15/19	08/30/19	04/01/20	09/15/21
TCE	51,000	100,000	210,000	19,000
c-1,2-DCE	21,000	45,000	55,000	20,000
VC	630	2,000	4,400	1,800

Detected Constituent	MW-D 03/16/18	03/13/19	08/30/19	09/16/21
TCE	2.5	1.2	1.8	0.34
c-1,2-DCE	3.4	9.5	2.3	U (0.7)
VC	0.5	3.1	0.43	U (0.07)

Detected Constituent	MW-L 03/14/19	08/30/19	04/01/20	09/15/21
TCE	6,500	500	220	1,000
c-1,2-DCE	2,600	140	220	230
VC	240	8.9	31	11

Detected Constituent	MW-Q 09/15/21
TCE	36
c-1,2-DCE	1,200
VC	68

Detected Constituent	MW-J 03/14/19	03/14/19	08/30/19	08/30/19	09/16/21
TCE	0.39	0.24	U (0.2)	U (0.2)	0.29
c-1,2-DCE	0.25	U (0.23)	2.8	2.6	U (0.7)
VC	U (0.2)	U (0.2)	0.43	0.44	U (0.07)

Detected Constituent	BRMW-4 08/30/19	04/01/20	09/15/21
TCE	560	830	6,800
c-1,2-DCE	140	190	1,200
VC	9.2	22	40

Detected Constituent	BRMW-1 03/13/19	08/30/19	09/16/21
TCE	7.5	5.5	10
c-1,2-DCE	300	190	190
VC	42	26	54

Detected Constituent	MW-B 03/16/18	03/14/19	08/30/19	04/01/20	09/15/21
TCE	690	380	290	200	4,900
c-1,2-DCE	360	190	190	92	1,500
VC	26	16	1.4	13	56

Detected Constituent	MW-E 03/16/18	03/13/19	08/30/19	09/16/21
TCE	U (0.22)	U (0.2)	0.31	0.24
c-1,2-DCE	6.4	2.7	5.3	3.4
VC	U (0.32)	0.3	U (0.2)	U (0.07)

Detected Constituent	BRMW-2 03/13/19	08/30/19	09/16/21
TCE	930	1,000	1,500
c-1,2-DCE	510	650	770
VC	37	45	41

Detected Constituent	MW-I 03/15/19	08/30/19	04/01/20	09/16/21
TCE	4.2	0.31	0.41	0.29
c-1,2-DCE	2.7	0.69	U (0.7)	U (0.7)
VC	0.84	0.74	0.42	0.16

Detected Constituent	MW-C 03/16/18	03/14/19	08/30/19	09/15/21
TCE	52	28	94	120
c-1,2-DCE	37	31	310	55
VC	2.2	6.5	20	U (0.07)

Detected Constituent	MW-S 09/15/21
TCE	29
c-1,2-DCE	4.4
VC	U (0.07)

Detected Constituent	MW-R 09/15/21
TCE	2,200
c-1,2-DCE	940
VC	12

Detected Constituent	MW-M 03/15/19	08/30/19	09/16/21
TCE	0.59	U (0.2)	U (0.18)
c-1,2-DCE	0.29	0.32	1.2
VC	U (0.2)	U (0.2)	0.74

Detected Constituent	MW-F 03/16/18	03/14/19	08/30/19	09/16/21
TCE	4.2	0.92	1.2	0.40
c-1,2-DCE	0.79	0.8	0.73	U (0.7)
VC	U (0.32)	U (0.2)	U (0.2)	0.08

Detected Constituent	BRMW-3 08/30/19	04/01/20	09/16/21
TCE	79,000	62,000	3,300
c-1,2-DCE	4,500	3,900	1,100
VC	160	240	180

Detected Constituent	MW-N 03/15/19	08/30/19	04/01/20	09/16/21
TCE	80,000	79,000	48,000	5,000
c-1,2-DCE	12,000	12,000	9,200	6,700
VC	350	180	220	220

Detected Constituent	MW-O 08/30/19	04/01/20	09/16/21
TCE	290,000	580,000	61,000
c-1,2-DCE	16,000	15,000	3,400
VC	260	560	30

NOTES:

Test locations tape-measured in relation to existing site structures and should be considered accurate to the degree implied by the method used.

Property boundaries provided by City of Rochester dated January 2019.

Aerial imagery provided by the City of Rochester, dated 2018. This imagery may not reflect the most recent conditions on the site.

Last Date Saved: 07 Dec 2021

DATE 11-2021
DATE DRAWN 11-2021
DATE ISSUED 12-01-2021
PROJECT MANAGER HMM
DRAWN BY CAH/CPS
SCALE AS NOTED

DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606

Project Title: 962, 966, 972-974 EAST MAIN STREET ROCHESTER, NEW YORK NYSDEC SITE NO. C828210

Drawing Title: Historic Groundwater Test Results - Select CVOCs

Project No. 5491R-18

FIGURE 3B

NOTES:

Approximate property boundaries provided by City of Rochester, dated January 2019.

Aerial imagery provided by the City of Rochester, dated 2018. This imagery may not reflect the most recent conditions on the site.

Detected Compound	IA-5	SS-5
Carbon Tetrachloride	0.440	ND
c-1,2-DCE	3.71 A	258 D A
TCE	23.6 X A	4,460 D A
1,1,1-TCA	ND	137 D
PCE	0.136	ND

Detected Compound	VP-5
c-1,2-DCE	16
TCE	2,600 D
1,1,1-TCA	7.9
PCE	8.8
Methylene Chloride	3.0

Detected Compound	IA-6	SS-6
Carbon Tetrachloride	0.428	ND
c-1,2-DCE	1.17 A	ND
TCE	6.88 X A	130 A

Detected Compound	IA-4	SS-4
Carbon Tetrachloride	0.428	ND
c-1,2-DCE	0.095	ND
TCE	0.602	1,390 D A

Detected Compound	VP-2
Carbon Tetrachloride	0.25
1,1-DCE	0.91
c-1,2-DCE	320
TCE	3,200 D
1,1,1-TCA	30
PCE	20
VC	0.55

Detected Compound	VP-3
Carbon Tetrachloride	0.36
c-1,2-DCE	190
TCE	4,900 D
1,1,1-TCA	2.3
PCE	11
Methylene Chloride	0.89

Detected Compound	VP-1
Carbon Tetrachloride	1.6
c-1,2-DCE	140
TCE	2.5
1,1,1-TCA	3.2
PCE	9.9

Detected Compound	BG (VP)
Carbon Tetrachloride	0.4
c-1,2-DCE	0.15
TCE	20 X

Detected Compound	BG (IA/SS)
Carbon Tetrachloride	0.403

Detected Compound	IA-2	SS-2
Carbon Tetrachloride	0.39	ND
c-1,2-DCE	0.353	363 D A
TCE	4.05 X A	5,750 D A
PCE	ND	24.4 D

Detected Compound	IA-1	SS-1
Carbon Tetrachloride	0.415	ND
c-1,2-DCE	2.29 A	44.8 D
TCE	21.6 X A	3,820 D A

Detected Compound	VP-4
1,1-DCE	0.37
c-1,2-DCE	290
TCE	560 D
1,1,1-TCA	0.35
PCE	1.6

Detected Compound	IA-3	SS-3
Carbon Tetrachloride	0.315	ND
c-1,2-DCE	0.111	1,310 D A
TCE	1.51	161,000 D A

Detected Compound	Air Guideline
Carbon Tetrachloride	NA
1,1-Dichloroethene (1,1-DCE)	NA
Cis-1,2-Dichloroethene (c-1,2-DCE)	NA
Trichloroethylene (TCE)	2
1,1,1-Trichloroethane (1,1,1-TCA)	NA
Tetrachloroethylene (PCE)	30
Methylene Chloride	60
Vinyl Chloride (VC)	NA

A = Mitigation required based on Soil Vapor/Indoor Air Matrix A of NYSDOH Guidance Document

X = Concentration exceeds Air Guideline value of NYSDOH Guidance Document (not applicable to soil vapor or sub-slab vapor samples)

IA = Indoor Air Sample

SS = Sub-Slab Vapor Sample

VP = Soil Vapor Sample

Legend

- Background air sample location
- Sub slab vapor / Indoor air location
- Vapor probe
- Slab 1 (Approximate construction date 1920's or earlier)
- Slab 2 (Approximate construction date 1920's or earlier)
- Slab 3 (Construction date 1962)
- Slab 4 (Construction date 1976)
- Slab 5 (Construction date 1976)
- Slab 6 (Construction date 1987)
- Approximate site boundary

0 15 30 60 Feet

DATE 11-2021

DATE DRAWN 11-2021

DATE ISSUED 11-24-2021

PROJECT MANAGER HMM

DRAWN BY CPS

SCALE AS NOTED

DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170

Project Title: 962, 966, 972-974 EAST MAIN STREET ROCHESTER, NEW YORK NYSDEC SITE NO. C828210

Drawing Title: Site Plan with Soil Vapor and Vapor Intrusion Test Results

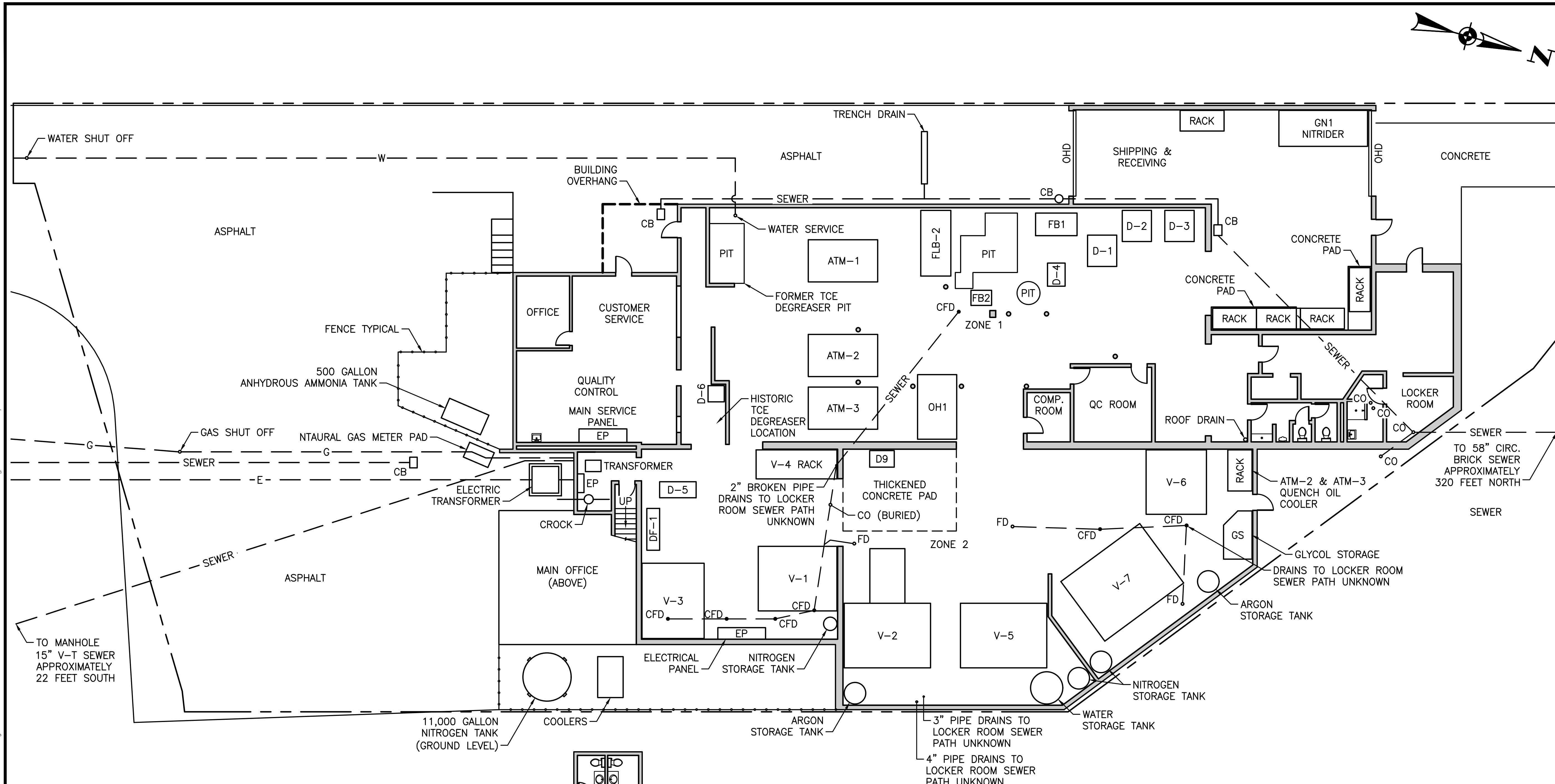
Project No. 5491R-18

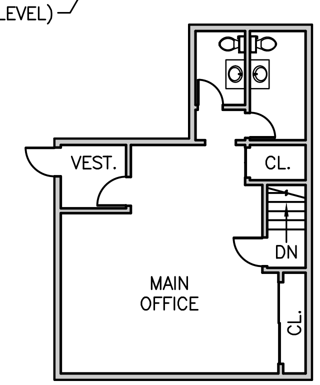
FIGURE 3C

Ref1: Floor Plan for Partial Site Plan.dwg
Ref2:
Ref3:

Xerox432AnsiB-2; 11 x 17
Layout Name: Layout1
Pen Setting File: 800psFullcolor.ctb

Time Plotted: Wednesday, December 8, 2021 1:36:33 PM
File Name: P:\Drawings\RSTW\5491R-18\Partial Site Plan with Floor Plan.dwg





LEGEND

CB ○ CB □	CATCH BASIN
CO ○	CLEANOUT
FD ○	FLOOR DRAIN
CFD ●	CAPPED FLOOR DRAIN
OHD	OVERHEAD DOOR
— — —E— — —	APPROXIMATE LOCATION OF ELECTRICAL CONDUIT
— — —G— — —	APPROXIMATE LOCATION OF GAS PIPING
— — - SEWER - — —	APPROXIMATE LOCATION OF SEWER PIPING
— — —W— — —	APPROXIMATE LOCATION OF WATER PIPING

PARTIAL SITE PLAN
1" = 20'

0' 20' 40' 60'

NOTES:

1. SITE PLAN ADAPTED FROM A MAP OF AN INSTRUMENT SURVEY PROVIDED BY THE CLIENT, AND FILED DIAGRAMS MADE BY: DAY ENVIRONMENTAL, INC. ON SEPTEMBER 15, 1999, JANUARY 19, 1999 OCTOBER 13, 2021 AND OCTOBER 29, 2021.
2. LOCATIONS TAPE MEASURED FROM EXISTING SITE STRUCTURES AND SHOULD BE CONSIDERED ACCURATE TO THE DEGREE IMPLIED BY THE METHOD USED.
3. DRAINAGE DIRECTIONS OF FLOOR DRAINS, CLEANOUTS, CATCH BASINS AND CROCK BASED ON FIELD OBSERVATIONS MADE BY DAY ENVIRONMENTAL, INC. IN 2018, ON FEBRUARY 5, 2019, MARCH 21, 2019 AND NOVEMBER 29, 2021.

DATE	DATE DRAWN	DATE ISSUED
11-2021	11-24-2021	12-8-2021

FILED VERIFIED BY	DRAWN BY	SCALE
HMM	RJM	As Noted

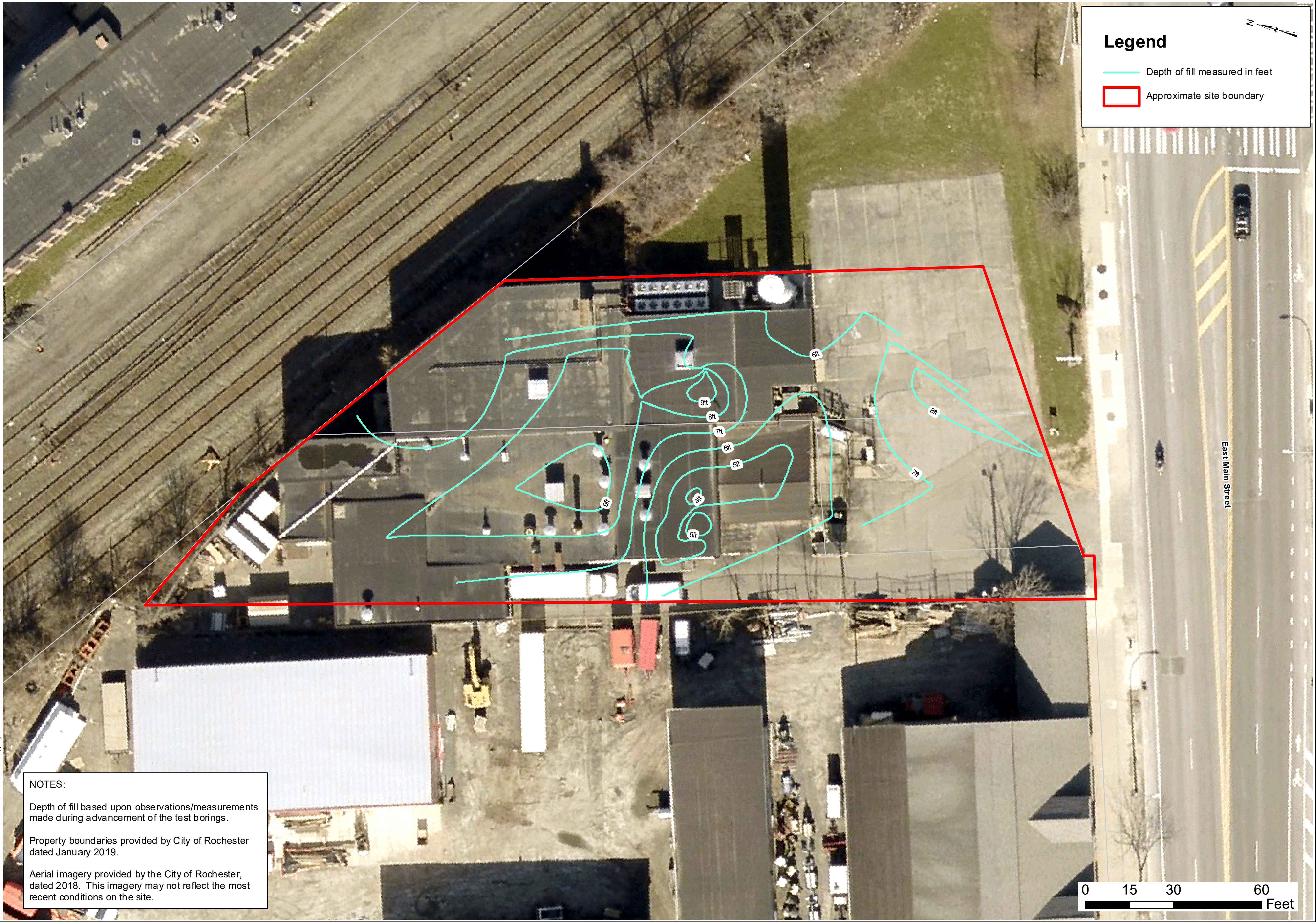
day
DAY ENVIRONMENTAL, INC.
ENVIRONMENTAL CONSULTANTS
ROCHESTER, NEW YORK 14606
NEW YORK, NEW YORK 10170

PROJECT TITLE
962, 966, 972-974 EAST MAIN STREET
ROCHESTER, NEW YORK
NYSDEC SITE NO. C828210

DRAWING TITLE
Building Plan With Approximate Utility Locations

PROJECT NO.
5491R-18

FIGURE 4



NOTES:

Depth of fill based upon observations/measurements made during advancement of the test borings.

Property boundaries provided by City of Rochester dated January 2019.

Aerial imagery provided by the City of Rochester, dated 2018. This imagery may not reflect the most recent conditions on the site.

Last Date Saved: 07 Dec 2021 Document Path: E:\GIS Mapping\RSTW\5491R-18\RSTW\IIR\5491R-04-IIR- Depth to Fill.mxd

PROJECT MANAGER HMM	DATE 11-2021	
DRAWN BY CPS	DATE DRAWN 11-2021	
SCALE AS NOTED	DATE ISSUED 11-24-2021	

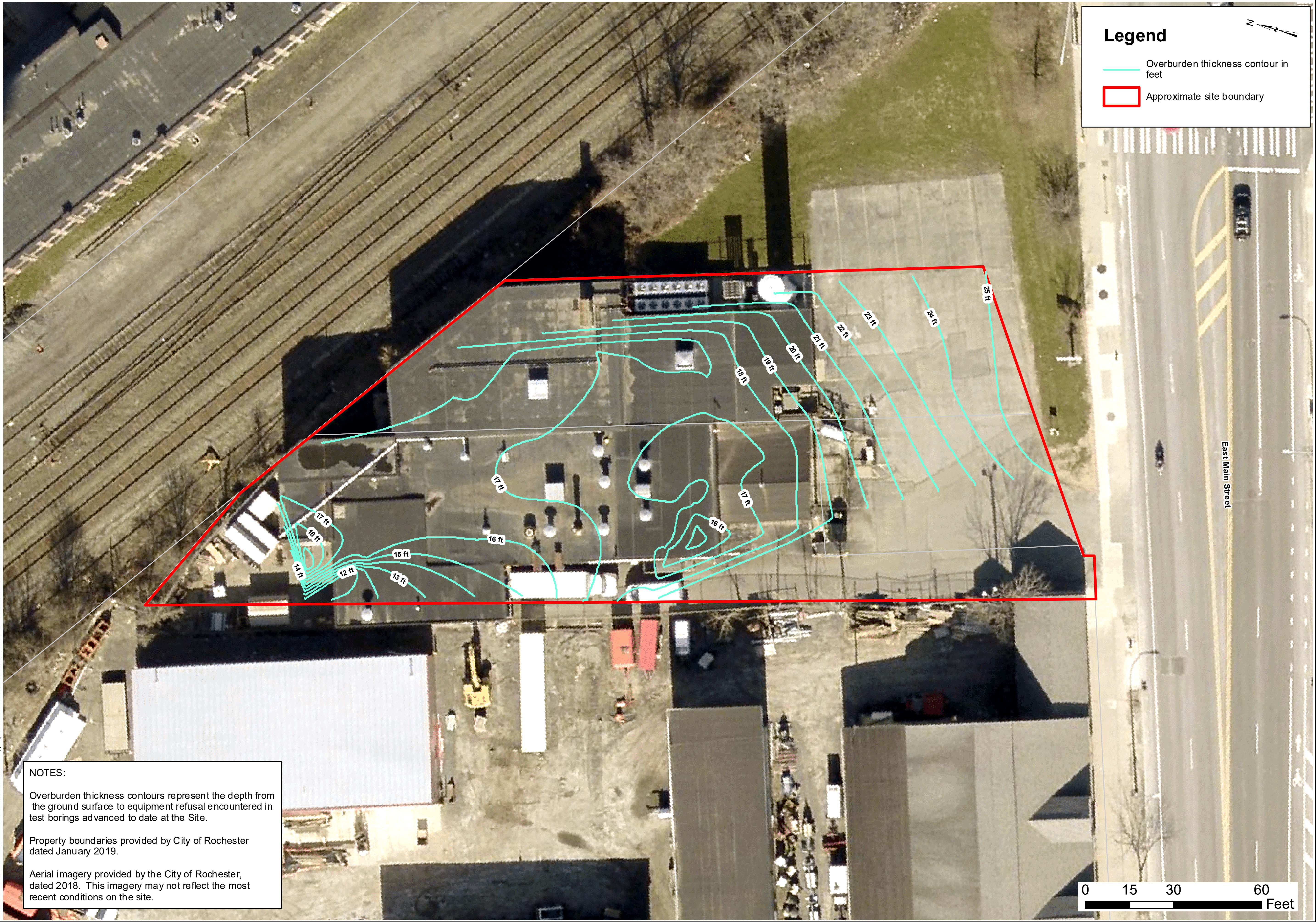
DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170

Project Title
962, 966, 972-974 EAST MAIN STREET
ROCHESTER, NEW YORK
NYSDEC SITE NO. C828210

Drawing Title
Fill Thickness Contours

Project No.
5491R-18

FIGURE 5



PROJECT MANAGER	DATE
HMM	11-2021
DRAWN BY	DATE DRAWN
CPS	11-2021
SCALE	DATE ISSUED
AS NOTED	11-24-2021

day
DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170

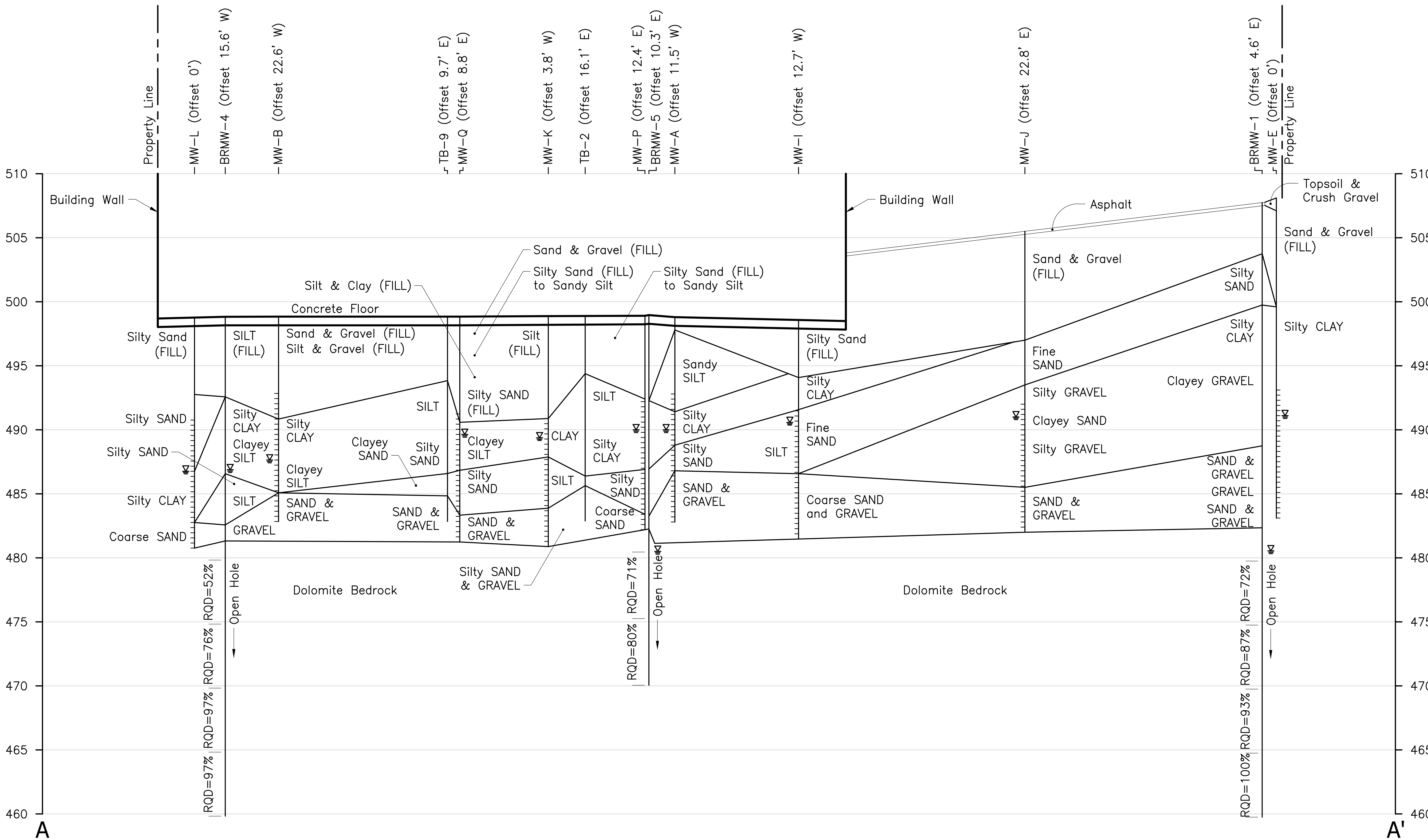
Project Title
962, 966, 972-974 EAST MAIN STREET
ROCHESTER, NEW YORK
NYSDEC SITE NO. C828210

Drawing Title
Overburden Thickness Contours

Project No.
5491R-18

FIGURE 6

Last Date Saved: 07 Dec 2021   Document Path: E:\GIS Mapping\RSTW\5491R-18RSTW\IIR\5491R-03-IIR- Overburden Thickness.mxd



GEOLOGIC CROSS SECTION A–A'

Horizontal Scale 1" = 20'
Vertical Scale 1" = 8'

1" = 20' 0' 20' 40' 60'

1" = 8' 0' 8' 16' 24'

LEGEND

Groundwater Elevation Based On Measurements Made On August 4, 2021

FILED VERIFIED BY	CAH
DATE	11-2021
DRAWN BY	RJM
DATE DRAWN	11-23-2021
SCALE	As Noted
DATE ISSUED	12-8-2021

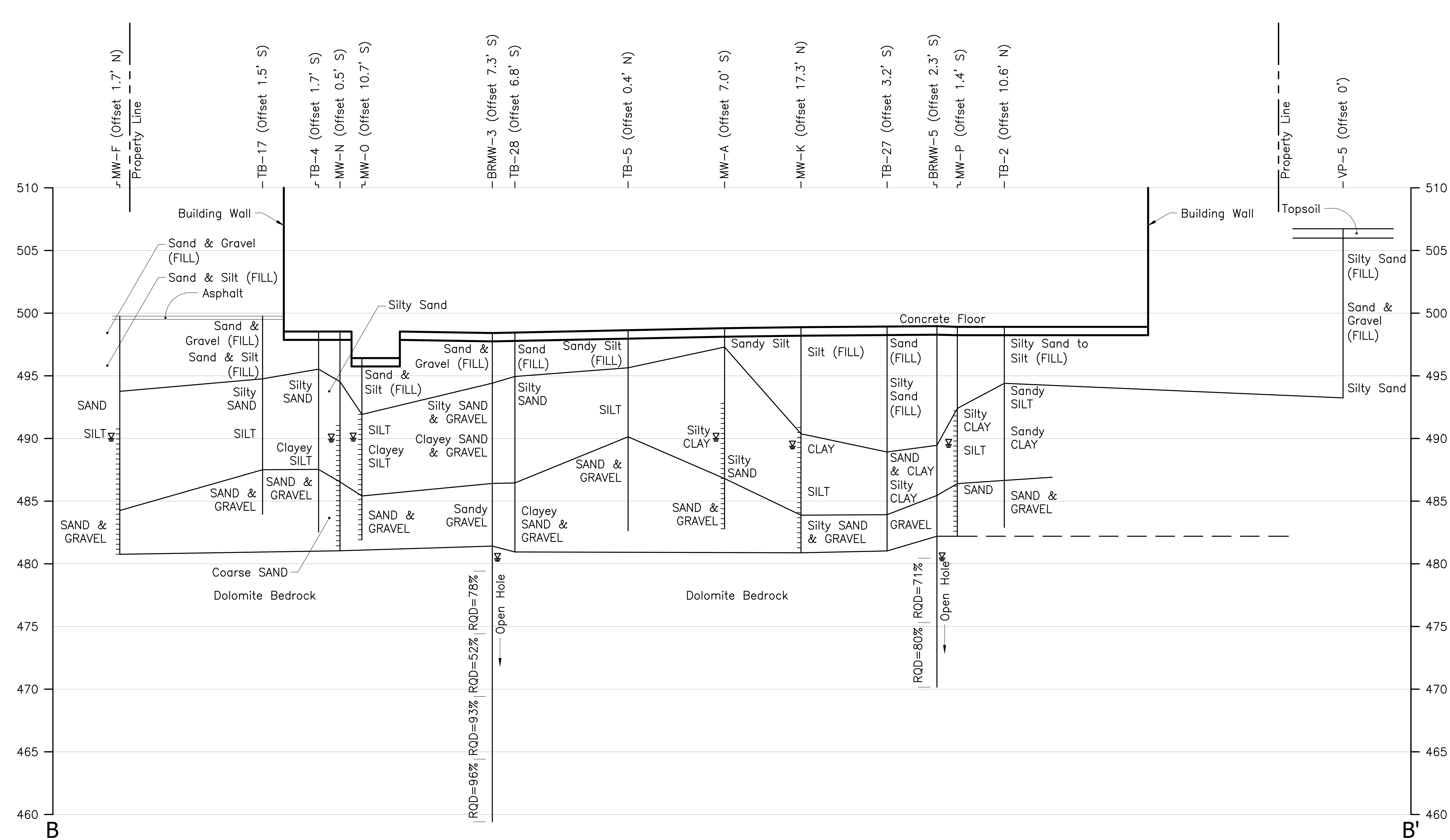
day
DAY ENVIRONMENTAL, INC.
ENVIRONMENTAL CONSULTANTS
ROCHESTER, NEW YORK 14606
NEW YORK, NEW YORK 10170

PROJECT TITLE
962, 966, 972-974 EAST MAIN STREET
ROCHESTER, NEW YORK
NYSDEC SITE NO. C828210

DRAWING TITLE
Geologic Cross Section A-A'

PROJECT NO.
5491R-18

FIGURE 7A



GEOLOGIC CROSS SECTION B-B'

Horizontal Scale 1" = 10'
Vertical Scale 1" = 8'

1" = 10' 0' 10' 20' 30'

1" = 8' 0' 8' 16' 24'

LEGEND

Groundwater Elevation Based On Measurements Made On August 4, 2021

DATE	DATE DRAWN	DATE ISSUED
11-2021	11-23-2021	12-8-2021
FILED VERIFIED BY: CAH	DRAWN BY: RJM	SCALE: As Noted

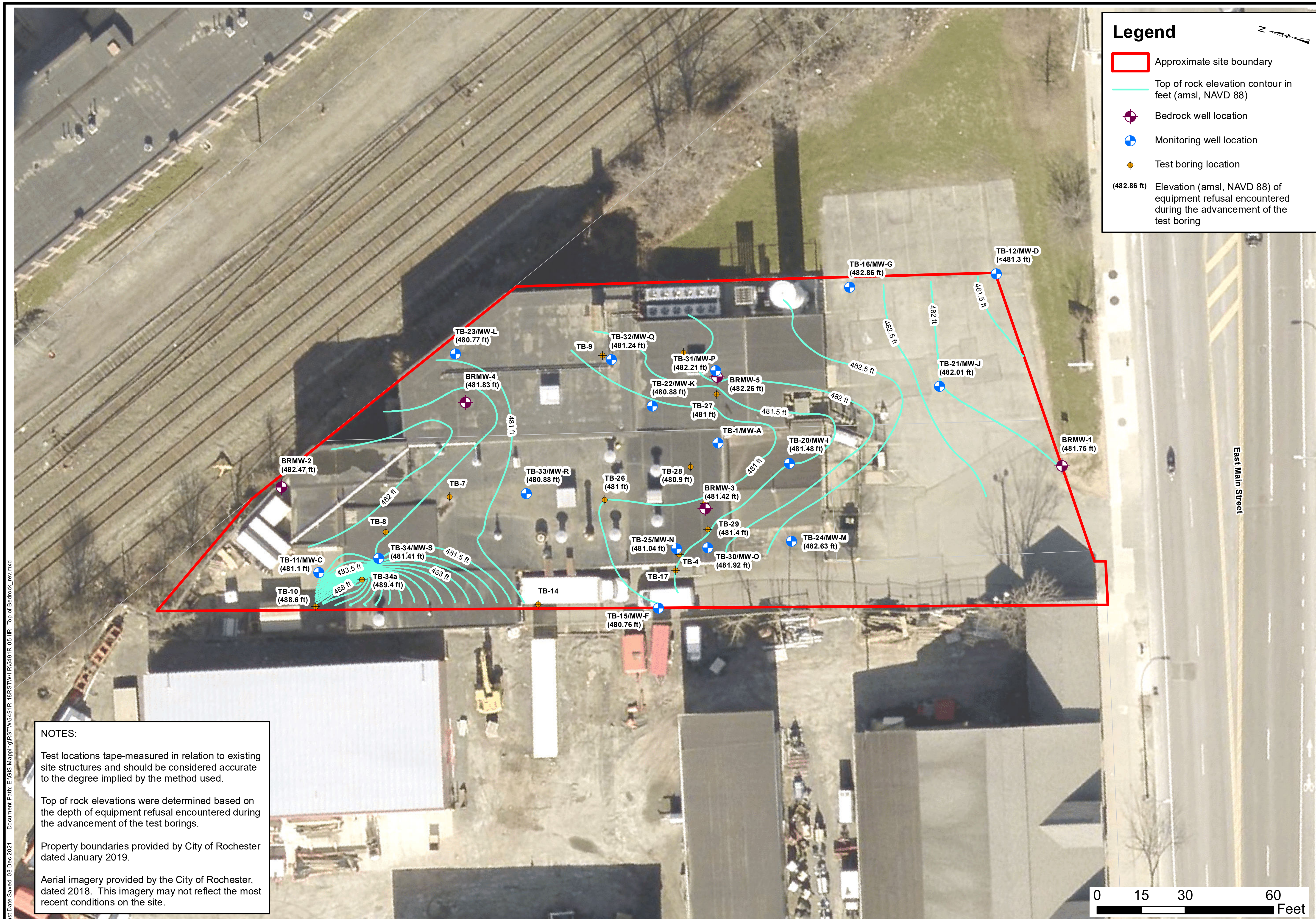
day
DAY ENVIRONMENTAL, INC.
ENVIRONMENTAL CONSULTANTS
ROCHESTER, NEW YORK 14606
NEW YORK, NEW YORK 10170

PROJECT TITLE
962, 966, 972-974 EAST MAIN STREET
ROCHESTER, NEW YORK
NYSDEC SITE NO. C828210

DRAWING TITLE
Geologic Cross Section B-B'

PROJECT NO.
5491R-18

FIGURE 7B



Legend

- Approximate site boundary
- Top of rock elevation contour in feet (amsl, NAVD 88)
- Bedrock well location
- Monitoring well location
- Test boring location
- (482.86 ft) Elevation (amsl, NAVD 88) of equipment refusal encountered during the advancement of the test boring

NOTES:

Test locations tape-measured in relation to existing site structures and should be considered accurate to the degree implied by the method used.

Top of rock elevations were determined based on the depth of equipment refusal encountered during the advancement of the test borings.

Property boundaries provided by City of Rochester dated January 2019.

Aerial imagery provided by the City of Rochester, dated 2018. This imagery may not reflect the most recent conditions on the site.

Last Date Saved: 08 Dec 2021 Document Path: E:\GIS Mapping\RSTW\5491R-18\RSTW\IIR\5491R-05-IR- Top of Bedrock_rev.mxd

DATE	11-2021
PROJECT MANAGER	HMM
DATE DRAWN	11-2021
DRAWN BY	CPS/CAH
DATE ISSUED	12-02-2021
SCALE	AS NOTED

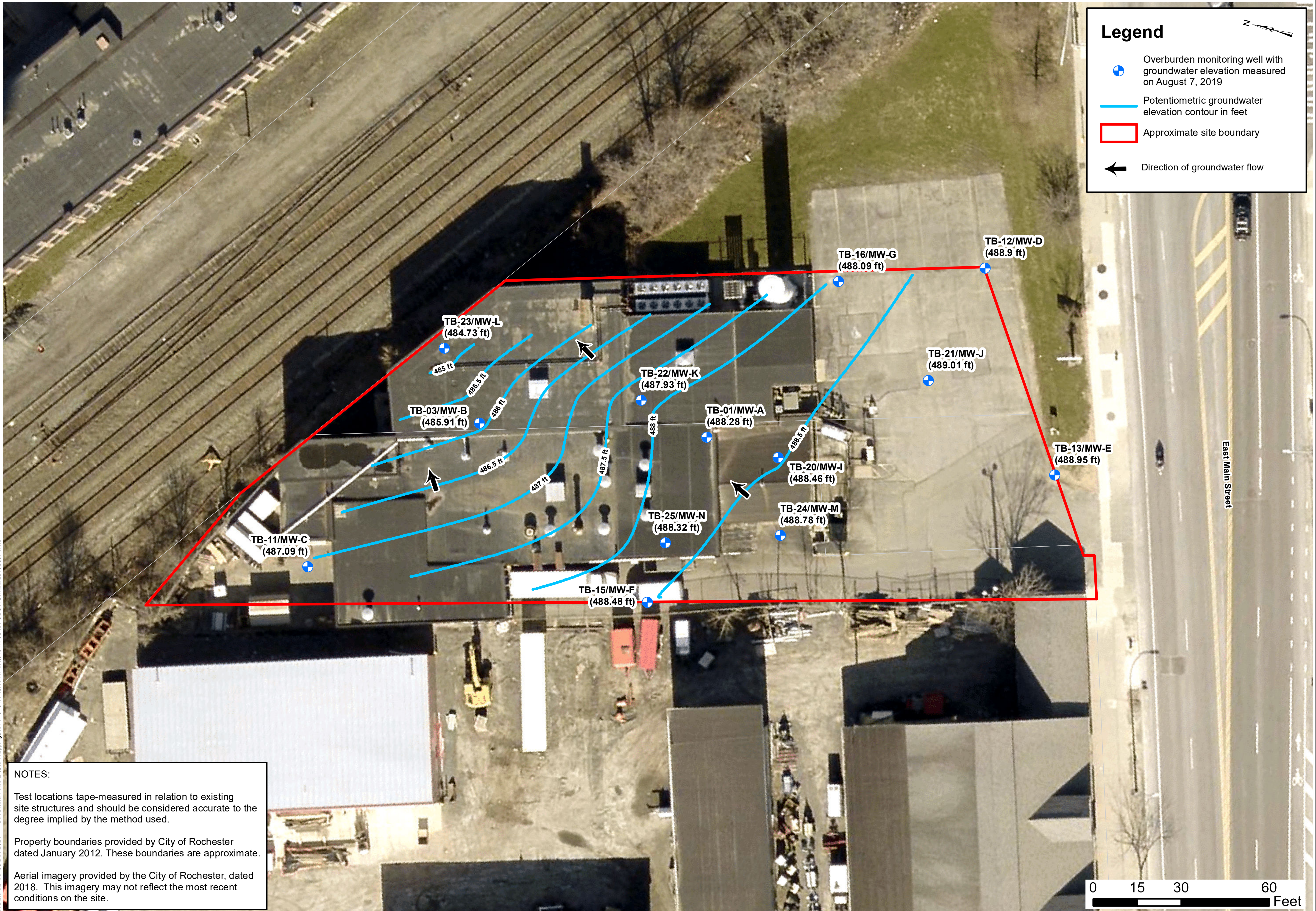
day DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170

Project Title
962, 966, 972-974 EAST MAIN STREET
ROCHESTER, NEW YORK
NYSDEC SITE NO. C828210

Drawing Title
Top of Bedrock Elevation Contours

Project No.
5491R-18

FIGURE 8



NOTES:

Test locations tape-measured in relation to existing site structures and should be considered accurate to the degree implied by the method used.

Property boundaries provided by City of Rochester dated January 2012. These boundaries are approximate.

Aerial imagery provided by the City of Rochester, dated 2018. This imagery may not reflect the most recent conditions on the site.

Last Date Saved: 08 Dec 2021 Document Path: E:\GIS Mapping\RSTW\5491R-18RSTW\IIR\5491R-08-IR-OBGWContour20190807.mxd

DATE	04-2021
DATE DRAWN	04-2021
DATE ISSUED	04-15-2021
PROJECT MANAGER	JAD
DRAWN BY	CPS
SCALE	AS NOTED

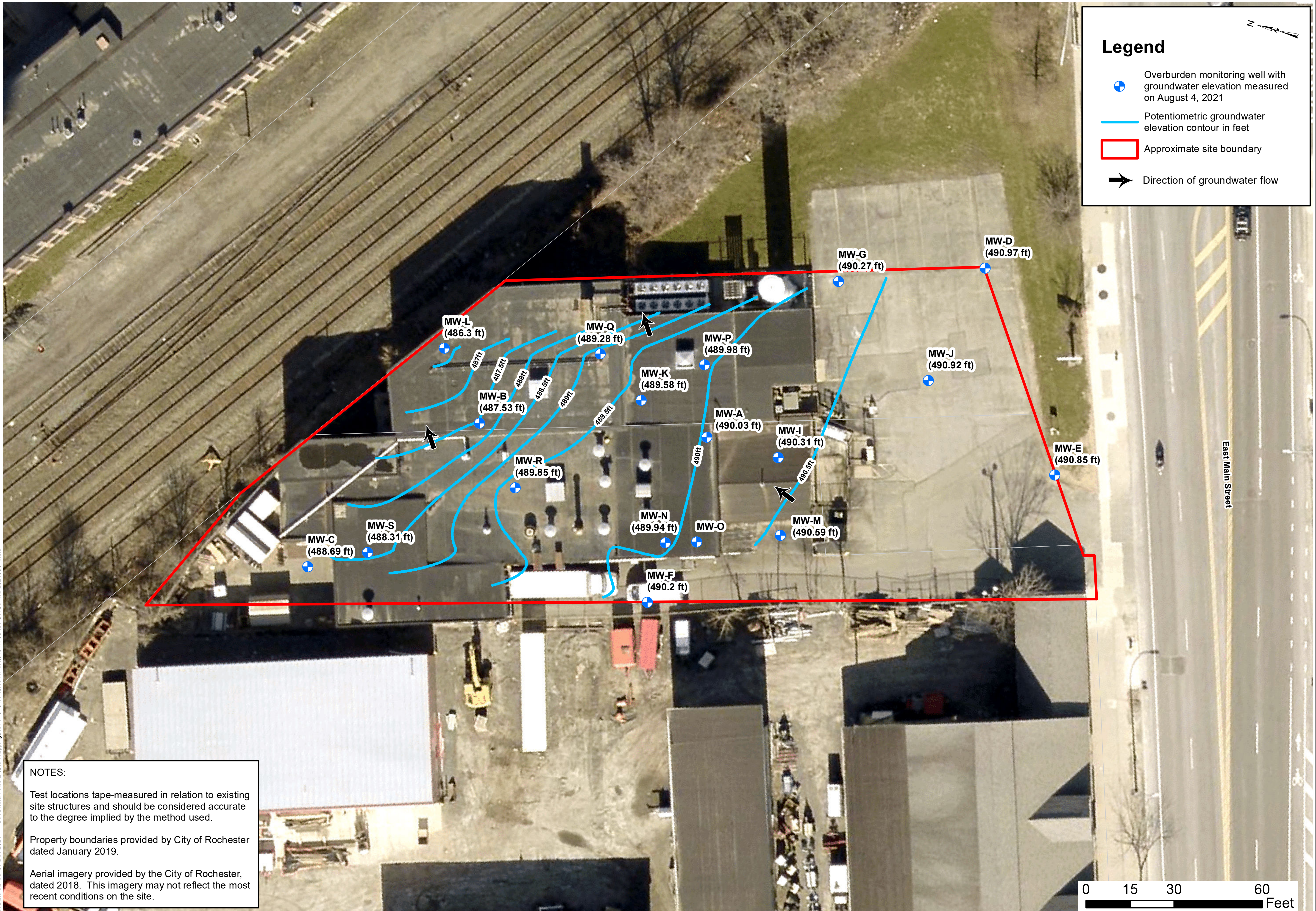
DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170

Project Title
962, 966, 972-974 EAST MAIN STREET
ROCHESTER, NEW YORK
NYSDEC SITE NO. C828210

Drawing Title
Potentiometric Overburden Groundwater Contour Map: August 7, 2019

Project No.
5491R-18

FIGURE 9A



Last Date Saved: 07 Dec 2021 Document Path: E:\GIS Mapping\RSTW\5491R-18RSTW\IR\5491R-09-IR-GWContour20210804.mxd

DATE	10-2021
PROJECT MANAGER	HMM
DATE DRAWN	10-2021
DRAWN BY	CPS
DATE ISSUED	10-04-2021
SCALE	AS NOTED

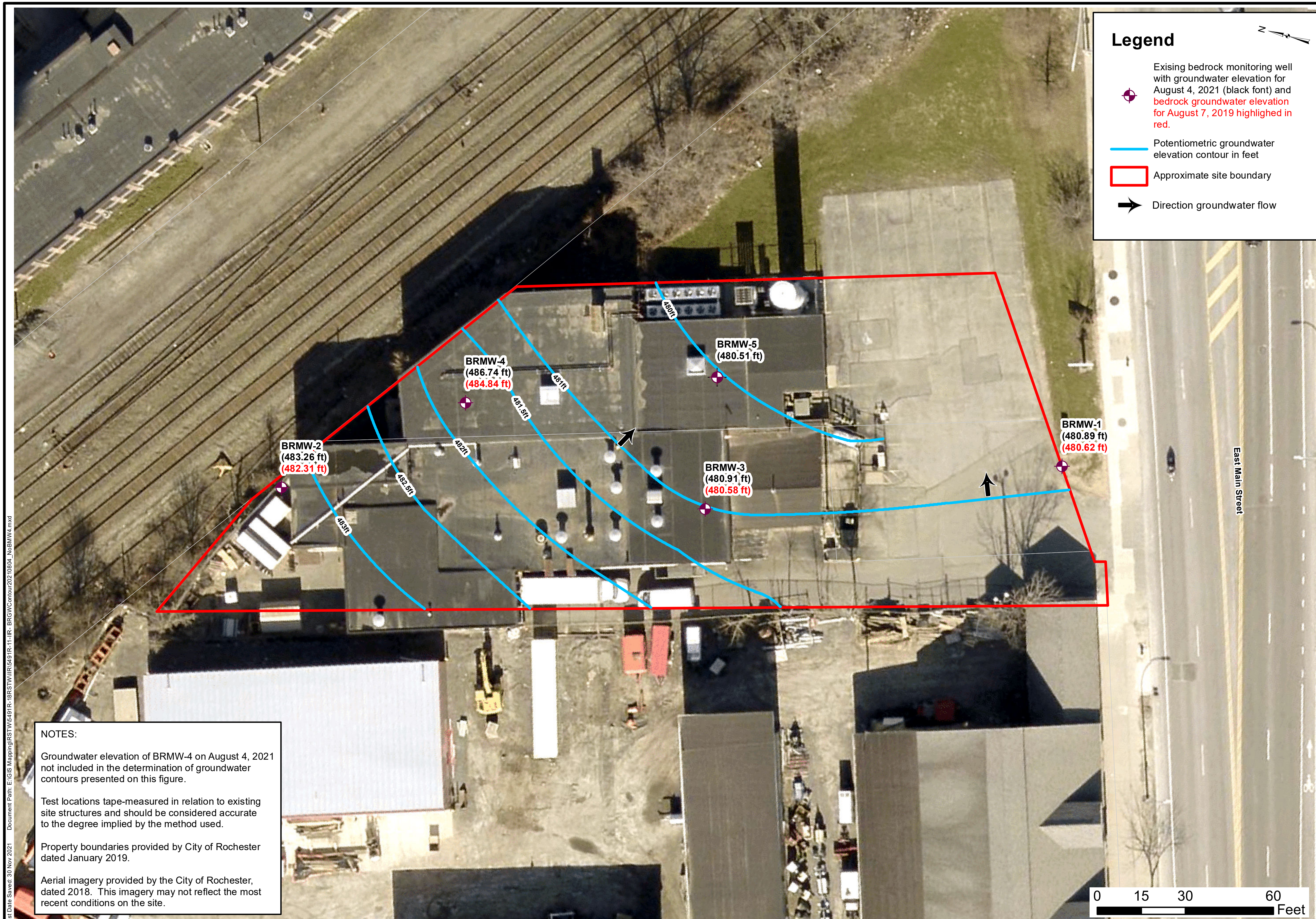
day
DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170

Project Title
962, 966, 972-974 EAST MAIN STREET
ROCHESTER, NEW YORK
NYSDEC SITE NO. C828210

Drawing Title
Potentiometric Overburden Groundwater Contour Map: August 4, 2021

Project No.
5491R-18

FIGURE 9B



NOTES:

Groundwater elevation of BRMW-4 on August 4, 2021 not included in the determination of groundwater contours presented on this figure.

Test locations tape-measured in relation to existing site structures and should be considered accurate to the degree implied by the method used.

Property boundaries provided by City of Rochester dated January 2019.

Aerial imagery provided by the City of Rochester, dated 2018. This imagery may not reflect the most recent conditions on the site.

Last Date Saved: 30 Nov 2021 Document Path: E:\GIS Mapping\RSTW\5491R-18RSTW\IR\5491R-11-IR- BRGWContour20210804_NoBMW4.mxd

DATE 11-2021	DATE DRAWN 11-2021	DATE ISSUED 11-29-2021
PROJECT MANAGER HMM	DRAWN BY CPS	SCALE AS NOTED

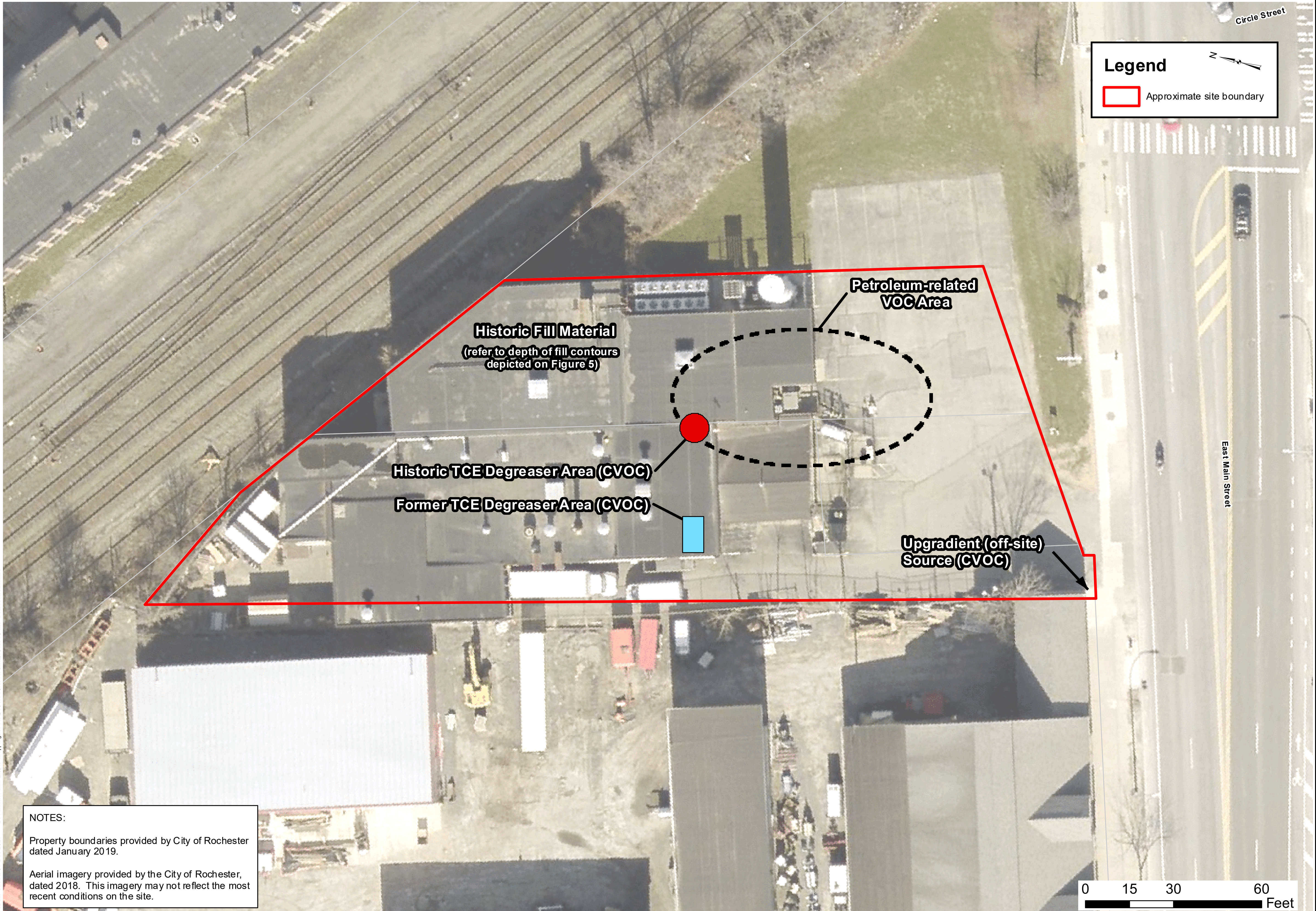
day
DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170

Project Title
962, 966, 972-974 EAST MAIN STREET
ROCHESTER, NEW YORK
NYSDEC SITE NO. C828210

Drawing Title
Bedrock Groundwater Contour Map: August 4, 2021

Project No.
5491R-18

FIGURE 10



NOTES:

Property boundaries provided by City of Rochester dated January 2019.

Aerial imagery provided by the City of Rochester, dated 2018. This imagery may not reflect the most recent conditions on the site.

Last Date Saved: 07 Dec 2021 Document Path: E:\GIS Mapping\RSTW\5491R-18RSTW\IIR\5491R-13-IIR- Source Areas.mxd

PROJECT MANAGER	HMM
DATE	11-2021
DRAWN BY	CAH
DATE DRAWN	11-2021
SCALE	AS NOTED
DATE ISSUED	12-01-2021

DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170

Project Title
962, 966, 972-974 EAST MAIN STREET
ROCHESTER, NEW YORK
NYSDEC SITE NO. C828210

Drawing Title
KNOWN AND POTENTIAL SOURCES OF CONTAMINATION

Project No.
5491R-18

FIGURE 11

TABLES

Table 1

RSTW
Summary of Samples Submitted for Laboratory Analysis
962, 966, 972-974 East Main Street
Rochester, New York

NYSDEC ID: C828210

Laboratory ID	Sample ID	Matrix	Date Collected	Time Collected	VOCs	SVOCs	Metals	CN-	PCBs	pH
SC26099-01	TB-03 (0-4)	Soil/Fill	9/15/2016	11:50	•	•	•		•	•
SC26099-02	TB-04 (0-4)	Soil/Fill	9/15/2016	12:05	•					
SC26099-03	TB-04 (6-8)	Soil/Fill	9/15/2016	12:15		•	•		•	•
R1801384-001	TB-1(6-7)	Soil/Fill	2/12/2018	12:08	•					
R1801384-002	TB-1(13-14)	Soil/Fill	2/12/2018	12:42	•					
R1801384-003	TB-2(2-3)	Soil/Fill	2/12/2018	14:39	•					
R1801384-004	TB-2(3-4)	Soil/Fill	2/12/2018	14:40					•	•
R1801384-005	TB-4(2.5-3.5)	Soil/Fill	2/13/2018	7:32		•	•			
R1801384-006	TB-4(15-16)	Soil/Fill	2/13/2018	8:06	•					
R1801384-007	TB-5(2-3)	Soil/Fill	2/13/2018	8:38		•				
R1801384-008	TB-5(9-10)	Soil/Fill	2/13/2018	8:52	•					
R1801384-009	TB-6(5-6)	Soil/Fill	2/13/2018	10:22			•			•
R1801384-010	TB-6(10-11)	Soil/Fill	2/13/2018	10:08	•					
R1801384-011	TB-7(14-15)	Soil/Fill	2/13/2018	11:15	•					
R1801384-012	TB-8(2.5-3.5)	Soil/Fill	2/13/2018	11:47	•					
R1801384-014	TB-9(12-13)	Soil/Fill	2/13/2018	13:45	•					
R1801384-015	TB-9(13-14)	Soil/Fill	2/13/2018	13:47		•			•	•
R1801384-016	TB-10(7-8)	Soil/Fill	2/13/2018	14:31		•	•			•
R1801451-001	TB-12(6-7)	Soil/Fill	2/16/2018	8:25	•					
R1801451-002	TB-13(2-3)	Soil/Fill	2/16/2018	9:45		•	•			
R1801451-003	TB-13(24-25)	Soil/Fill	2/16/2018	10:09	•					
R1801451-006	TB-14(3.5-4.5)	Soil/Fill	2/16/2018	12:52		•				•
R1801451-004	TB-14(14-15)	Soil/Fill	2/16/2018	13:07	•					
R1801451-005	TB-15(5-6)	Soil/Fill	2/16/2018	13:39	•					
R1801451-007	TB-16(4-5)	Soil/Fill	2/16/2018	15:20		•	•			
R1801451-008	TB-16(14-15)	Soil/Fill	2/16/2018	15:27	•					
R1802353-001	MW-A	Groundwater	3/16/2018	13:15	•					
R1802353-002	MW-B	Groundwater	3/16/2018	13:05	•					
R1802353-003	MW-C	Groundwater	3/16/2018	12:45	•	•	•			
R1802353-004	MW-D	Groundwater	3/16/2018	12:00	•					
R1802353-005	MW-E	Groundwater	3/16/2018	11:50	•				•	
R1802353-006	MW-F	Groundwater	3/16/2018	12:35	•		•			
R1802353-007	MW-G	Groundwater	3/16/2018	12:20	•		•			
R1802353-008	DUP 1*	Groundwater	3/16/2018	11:50	•					
R1805672-001	TMW-H	Groundwater	6/18/2018	-	•					
R1805672-002	TB-18(2-3)	Soil/Fill	6/18/2018	11:49	•					
R1805672-003	TB-19(3-4)	Soil/Fill	6/18/2018	11:56		•	•	•		

*Duplicate sample of MW-E
VOCs = Volatile Organic Compounds
SVOCs = Semi-Volatile Organic Compounds
PCBs = Polychlorinated Biphenyls

Table 1
Summary of Samples Submitted for Laboratory Analysis

962, 966, 972-974 East Main Street
Rochester, New York

Site No: C828210

Sample ID (DAY)	Test Boring/ Monitoring Well ID	Sample ID (Lab)	Date	Time	Matrix	TPH	TCL VOCs & TICs 8260	TCL SVOCs & TICs 8270	TAL Metals	Cyanide	PCBs	Pesticides	TO-15 VOCS	PFAS	1,4-Dioxane
100-TB-28 (11.5)	TB-28	R1901228-001	2/7/2019	13:50	Soil/Fill		•								
101-TB-26 (12.5)	TB-26	R1901228-002	2/7/2019	14:50	Soil/Fill		•								
102-TB-27 (14)	TB-27	R1901228-003	2/7/2019	15:35	Soil/Fill		•								
103-TB-23 (15)	TB-23	R1901228-004	2/8/2019	9:00	Soil/Fill		•								
104-TB-23 (3)	TB-23	R1901228-005	2/8/2019	10:24	Soil/Fill				•	•					
105-TB-20 (13.5)	TB-20	R1901228-006	2/9/2019	9:00	Soil/Fill		•								
106-TB-20 (3.5)	TB-20	R1901228-007	2/9/2019	9:05	Soil/Fill					•					
107-TB-25 (11.5)	TB-25	R1901228-008	2/11/2019	9:47	Soil/Fill		•								
108-TB-25 (3.5)	TB-25	R1901228-009	2/11/2019	9:57	Soil/Fill					•					
109-TB-21 (9)	TB-21~	R1901364-001	2/12/2019	8:47	Soil/Fill		•								
110-TB-21 (3)	TB-21~	R1901364-002	2/12/2019	9:30	Soil/Fill			•	•	•					
111-TB-21 (5)	TB-21~	R1901364-003	2/12/2019	9:35	Soil/Fill							•			
112-TB-22 (3-4)	TB-22	R1901364-004	2/13/2019	9:55	Soil/Fill					•		•			
113-TB-22 (13-14)	TB-22	R1901364-005	2/13/2019	9:55	Soil/Fill		•								
114-EB-021419	Equipment Blank	R1901364-006	2/14/2019	9:30	DI Water		•	•	•	•		•			
115-TB-24 (15.5)	TB-24	R1901364-007	2/14/2019	8:45	Soil/Fill		•								
116-DUP1-021419	TB-24 Field Duplicate	R1901364-008	2/14/2019	8:45	Soil/Fill		•								
117-TB-24 (2.5)	TB-24	R1901364-009	2/14/2019	9:00	Soil/Fill			•	•	•					
118-DUP2-021419	TB-24 Field Duplicate	R1901364-010	2/14/2019	9:00	Soil/Fill			•	•	•					
119-TB-24 (6)	TB-24	R1901364-011	2/14/2019	9:15	Soil/Fill							•			
120-DUP3-021419	TB-24 Field Duplicate	R1901364-012	2/14/2019	9:15	Soil/Fill							•			
121-MW-D	MW-D	R1902260-001	3/13/2019	10:45	GW		•								
122-BRMW-1	BRMW-1	R1902260-002	3/13/2019	13:33	GW		•								
123-MW-G	MW-G	R1902260-003	3/13/2019	13:32	GW		•								
124-MW-E	MW-E	R1902260-004	3/13/2019	16:00	GW		•								
125-BRMW-2	BRMW-2	R1902260-005	3/13/2019	15:38	GW		•								
126-MW-L	MW-L~	R1902260-006	3/14/2019	10:15	GW		•	•	•	•					
127-MW-C	MW-C	R1902260-007	3/14/2019	9:55	GW		•			•					
128-MW-B	MW-B	R1902260-008	3/14/2019	12:07	GW		•								
129-MW-J	MW-J	R1902260-009	3/14/2019	16:03	GW		•	•	•	•					
130-DUP4-031419	MW-J Field Duplicate	R1902260-010	3/14/2019	16:03	GW		•	•	•	•					
131-MW-F	MW-F	R1902260-011	3/14/2019	14:20	GW		•								
132-EB-031419	Equipment Blank	R1902260-012	3/14/2019	16:28	DI Water		•	•	•	•					
133-Trip Blank	Trip Blank	R1902260-013	3/14/2019		DI Water		•								
134-CS-1	CS-1	R1902260-014	3/15/2019	8:30	GW		•		•	•					
135-MW-I	MW-I	R1902260-015	3/15/2019	10:20	GW		•			•					
136-MW-K	MW-K	R1902260-016	3/15/2019	10:37	GW		•	•	•	•					
137-MW-M	MW-M	R1902260-017	3/15/2019	13:32	GW		•			•					
138-MW-A	MW-A	R1902260-018	3/15/2019	13:35	GW		•	•	•	•					
139-MW-N	MW-N	R1902260-019	3/15/2019	16:01	GW		•			•					
140-TRIP BLANK	TRIP BLANK	R1902260-020	3/15/2019		DI Water		•								
141-IDW-032219	IDW	191159-01	3/22/2019	14:10	Waste Water					•					
142-IDW-032219	IDW	191159-02	3/22/2019	14:20	Waste Water					•					
143-SS-5(0.5)	SS-5	R1902673-001	3/27/2019	10:25	Soil/Fill						•				
144-SS-3(0.1)	SS-3	R1902673-002	3/27/2019	10:45	Soil/Fill	•		•	•	•	•	•			
145-SS-6(0.5)	SS-6	R1902673-003	3/27/2019	11:00	Soil/Fill						•				
146-SS-4(0.1)	SS-4	R1902673-004	3/27/2019	11:15	Soil/Fill	•		•	•	•	•	•			
147-SS-1(0.1)	SS-1~	R1902673-005	3/27/2019	11:55	Soil/Fill	•		•	•	•	•	•			
148-SS-1(3.3)	SS-1	R1902673-006	3/27/2019	11:59	Soil/Fill	•		•	•	•	•	•			
149-DUP3-032719	SS-1 Field Duplicate	R1902673-007	3/27/2019	11:59	Soil/Fill	•		•	•	•	•	•			
150-SS-2(0.1)	SS-2	R1902673-008	3/27/2019	12:30	Soil/Fill	•		•	•	•	•	•			
151-SED1	Crock sediment~	R1902673-009	3/27/2019	13:10	Sediment		•	•	•	•					
152-DUP4-032719	Crock sediment Field Duplicate	R1902673-010	3/27/2019	13:10	Sediment		•								
153-EB-032719	Equipment Blank	R1902673-011	3/27/2019	13:45	DI Water	•	•	•	•	•	•	•			
154-Trip Blank	Trip Blank	R1902673-012	3/27/2019		DI Water		•								
155-MW-A	MW-A	R1903020-001	4/5/2019	11:02	GW									•	•
156-MW-E	MW-E	R1903020-002	4/5/2019	9:55	GW									•	•
157-MW-L	MW-L	R1903020-003	4/5/2019	11:48	GW									•	•
DUP-040519	MW-E Field Duplicate	R1903020-004	4/5/2019	9:55	GW									•	•
159-EB-040519	Equipment Blank	R1903020-005	4/5/2019	10:15	DI Water									•	•
160-FB-040519	Field Blank	R1903020-006	4/5/2019	11:57	DI Water									•	•
161-IDW-062519	IDW	R1905908-001	6/25/2019	8:50	Soil/Fill						•				
161-VP-1	VP-1	R1902200-001	4/10/2019	10:07-12:50	Soil Vapor								•		
162-VP-2	VP-2	R1902200-002	4/10/2019	10:09-11:27	Soil Vapor								•		
163-VP-3	VP-3	R1902200-003	4/10/2019	10:10-12:13	Soil Vapor								•		
164-VP-4	VP-4	R1902200-004	4/10/2019	10:11-11:42	Soil Vapor								•		
165-VP-5	VP-5	R1902200-005	4/10/2019	10:29-12:29	Soil Vapor								•		
166-BG-1	Background	R1902200-006	4/10/2019	10:04-12:04	Ambient Air								•		
167-DUP-041019	VP-2 Field Duplicate	R1902200-007	4/10/2019	11:29-13:05	Soil Vapor								•		
162-IDW-062819	Waste Water	193004-01	6/28/2019	12:30	Waste Water					•					
163-TB-29(4-8)	TB-29	R1908161-001	8/26/2019	10:30	Soil		•								
164-TB-30(5-8)	TB-30~	R1908161-002	8/26/2019	11:05	Soil		•								
165-EB-082619	Equipment Blank	R1908161-003	8/26/2019	11:50	DI Water		•								
166-DUP-082619	TB-29 Field Duplicate	R1908161-004	8/26/2019	10:30	GW		•								

TPH = Total Petroleum Hydrocarbons
TCL = Target Compound List
VOCs = Volatile Organic Compounds
SVOCs = Semi-Volatile Organic Compounds
RCRA = Resource Conservation Recovery Act
TAL = Target Analyte List
PFAS = Per- and Poly-Fluorinated Alkyl Compounds
~ (MS/MSD) completed for sample

Table 1
Summary of Samples Submitted for Laboratory Analysis

962, 966, 972-974 East Main Street
Rochester, New York

Site No: C828210

Sample ID (DAY)	Test Boring/ Monitoring Well ID	Sample ID (Lab)	Date	Time	Matrix	TPH	TCL VOCs & TICs 8260	TCL SVOCs & TICs 8270	TAL Metals	Cyanide	PCBs	Pesticides	TO-15 VOCS	PFAS	1,4-Dioxane
167-MW-A	MW-A	R1098397-001	8/30/2019	11:31	GW		•								
168-MW-B	MW-B	R1098397-002	8/30/2019	11:05	GW		•								
169-MW-C	MW-C	R1098397-003	8/30/2019	10:45	GW		•								
170-MW-D	MW-D	R1098397-004	8/30/2019	9:12	GW		•								
171-MW-E	MW-E	R1098397-005	8/30/2019	10:00	GW		•								
172-MW-F	MW-F	R1098397-006	8/30/2019	10:22	GW		•								
173-MW-G	MW-G	R1098397-007	8/30/2019	9:32	GW		•								
174-MW-I	MW-I	R1098397-008	8/30/2019	11:26	GW		•								
175-MW-J	MW-J	R1098397-009	8/30/2019	9:42	GW		•								
176-MW-K	MW-K	R1098397-010	8/30/2019	11:20	GW		•								
177-MW-L	MW-L	R1098397-011	8/30/2019	10:54	GW		•								
178-MW-M	MW-M	R1098397-012	8/30/2019	10:14	GW		•								
179-MW-N	MW-N	R1098397-013	8/30/2019	11:49	GW		•								
180-MW-O~	MW-O~	R1098397-014	8/30/2019	16:22	GW		•								
181-BRMW-1	BRMW-1	R1098397-015	8/30/2019	9:55	GW		•								
182-BRMW-2	BRMW-2	R1098397-016	8/30/2019	10:40	GW		•								
183-BRMW-3	BRMW-3	R1098397-017	8/30/2019	11:43	GW		•								
184-BRMW-4	BRMW-4	R1098397-018	8/30/2019	10:59	GW		•								
185-EB(1)-083019	Equipment Blank	R1098397-019	8/30/2019	15:05	DI Water		•								
186-DUP083019	MW-J Field Duplicate	R1098397-020	8/30/2019	9:42	GW		•								
187-EB(2)-083019	Equipment Blank	R1098397-021	8/30/2019	17:36	DI Water		•								
Trip Blank	Trip Blank	R1098397-022	8/30/2019		DI Water		•								
IA-1	IA-1	L2008546-01	2/25/2020	17:02	Indoor Air								•		
SS-1	SS-1	L2008546-02	2/25/2020	17:02	Sub-Slab Vapor								•		
IA-2	IA-2	L2008546-03	2/25/2020	16:53	Indoor Air								•		
SS-2	SS-2	L2008546-04	2/25/2020	16:53	Sub-Slab Vapor								•		
IA-3	IA-3	L2008546-05	2/25/2020	16:55	Indoor Air								•		
SS-3	SS-3	L2008546-06	2/25/2020	16:55	Sub-Slab Vapor								•		
IA-4	IA-4	L2008546-07	2/25/2020	17:03	Indoor Air								•		
SS-4	SS-4	L2008546-08	2/25/2020	17:03	Sub-Slab Vapor								•		
IA-5	IA-5	L2008546-09	2/25/2020	17:01	Indoor Air								•		
SS-5	SS-5	L2008546-10	2/25/2020	17:01	Sub-Slab Vapor								•		
IA-6	IA-6	L2008546-11	2/25/2020	16:59	Indoor Air								•		
SS-6	SS-6	L2008546-12	2/25/2020	16:59	Sub-Slab Vapor								•		
BG	BG	L2008546-13	2/25/2020	16:58	Ambient Air								•		
208-MW-A	MW-A	L2014354-01	4/1/2020	18:42	GW		•								
203-MW-B	MW-B	L2014354-02	4/1/2020	10:19	GW		•								
206-MW-I	MW-I	L2014354-03	4/1/2020	18:23	GW		•								
207-MW-K	MW-K	L2014354-04	4/1/2020	18:30	GW		•								
204-MW-L	MW-L	L2014354-05	4/1/2020	18:05	GW		•								
210-MW-N	MW-N	L2014354-06	4/1/2020	19:09	GW		•								
211-MW-O	MW-O	L2014354-07	4/1/2020	19:20	GW		•								
209-BRMW-3	BRMW-3	L2014354-08	4/1/2020	18:58	GW		•								
202-BRMW-4	BRMW-4~	L2014354-09	4/1/2020	17:20	GW		•								
212-EB-04012020	EB-04012020	L2014354-10	4/1/2020	19:50	GW		•								
205-DUP-04012020	DUP-04012020	L2014354-11	4/1/2020	17:10	GW		•								
213-TRIP BLANK	Trip Blank	L2014354-12	4/1/2020	-	GW		•								
MW-A	MW-A	L2150455-10	9/16/2021	12:52	GW		•								
MW-B	MW-B	L2150455-19	9/15/2021	12:55	GW		•								
MW-C	MW-C	L21050455-22	9/15/2021	15:01	GW		•								
MW-D	MW-D	L21050455-13	9/16/2021	9:27	GW		•								
MW-E	MW-E	L21050455-07	9/16/2021	9:53	GW		•								
MW-F	MW-F	L21050455-12	9/16/2021	11:40	GW		•								
MW-G	MW-G	L21050455-16	9/16/2021	10:56	GW		•								
MW-I	MW-I	L21050455-15	9/16/2021	13:31	GW		•								
MW-J	MW-J	L21050455-16	9/16/2021	10:43	GW		•								
MW-K	MW-K	L2150455-08	9/15/2021	12:01	GW		•								
MW-L	MW-L	L2150455-23	9/15/2021	13:53	GW		•								
MW-M	MW-M	L2150455-27	9/16/2021	11:17	GW		•								
MW-N	MW-N	L21050455-14	9/16/2021	14:15	GW		•								
MW-O	MW-O	L2150455-20	9/16/2021	14:36	GW		•								
MW-P	MW-P	L2150455-24	9/15/2021	11:37	GW		•								
MW-Q	MW-Q	L2150455-21	9/15/2021	12:39	GW		•								
MW-R	MW-R	L21050455-09	9/15/2021	14:15	GW		•								
MW-S	MW-S	L21050455-17	9/15/2021	14:37	GW		•								
BRMW-1	BRMW-1	L21050455-11	9/16/2021	10:15	GW		•								
BRMW-2	BRMW-2	L2150455-26	9/16/2021	11:56	GW		•								
BRMW-3	BRMW-3	L2150455-25	9/16/2021	13:47	GW		•								
BRMW-4	BRMW-4~	L21050455-05	9/15/2021	13:16	GW		•								
BRMW-5	BRMW-5~	L21050455-06	9/15/2021	10:31	GW		•								
TRIP BLANK	Trip Blank	L21050455-01	9/16/2021	-	DI Water		•								
EB-09162021	Equipment Blank	L21050455-02	9/16/2021	17:23	GW		•								
DUP01-09162021	Duplicate of BRMW-4	L21050455-03	9/15/2021	13:17	GW		•								
DUP02-09162021	Duplicate of BRMW-5	L21050455-04	9/15/2021	10:32	GW		•								

TPH = Total Petroleum Hydrocarbons
TCL = Target Compound List
VOCs = Volatile Organic Compounds
SVOCs = Semi-Volatile Organic Compounds
RCRA = Resource Conservation Recovery Act
TAL = Target Analyte List
PFAS = Per- and Poly-Fluorinated Alkyl Compounds
~ (MS/MSD) completed for sample

Table 2

RSTW
Drilling Water Loss and Water Recovery During Well Development
962, 966, 972-974 East Main Street
Rochester, New York
NYSDEC Site No. C828210

Well ID	Water Loss (gallons)	Water Recovery (gallons)
MW-I	-	10
MW-J	-	8
MW-K	-	6.5
MW-L	-	4
MW-M	-	7.5
MW-N	10	14
MW-O	-	4
MW-P	-	19
MW-Q	-	10.5
MW-R*	45	25
MW-S	-	18.50
BRMW-1	195	285
BRMW-2	600	650
BRMW-3	155	200
BRMW-4	230	320
BRMW-5	40	70

Notes:
*Recovery at MW-R was limited. Well was pumped dry multiple times

Table 3

RSTW
962, 966, 972-974 East Main Street
Rochester, NY
Site ID C828210

Static Water Levels and Calculated Groundwater Elevations

Well ID	Measurement Point	Elevation (ft. amsl)	3/4/2019		8/7/2019		8/4/2021	
			Depth to Water (ft. bTOC)	Groundwater Elevation (ft. amsl)	Depth to Water (ft. bTOC)	Groundwater Elevation (ft. amsl)	Depth to Water (ft. bTOC)	Groundwater Elevation (ft. amsl)
MW-A	TOC	498.45	9.22	489.23	10.17	488.28	8.41	490.04
	Floor	498.80						
MW-B	TOC	498.43	11.28	487.15	12.52	485.91	10.9	487.53
	Floor	498.84						
MW-C	TOC	498.84	10.68	488.16	11.75	487.09	10.15	488.69
	Ground	499.11						
MW-D	TOC	506.32	16.63	489.69	17.42	488.90	15.35	490.97
	Ground	506.38						
MW-E	TOC	507.94	18.18	489.76	18.99	488.95	17.09	490.85
	Ground	508.11						
MW-F	TOC	499.59	10.24	489.35	11.11	488.48	9.39	490.20
	Ground	499.76						
MW-G	TOC	505.67	16.2	489.47	17.58	488.09	15.4	490.27
	Ground	505.86						
MW-I	TOC	498.26	8.89	489.37	9.8	488.46	7.95	490.31
	Floor	498.58						
MW-J	TOC	505.25	15.44	489.81	16.24	489.01	14.33	490.92
	Ground	505.51						
MW-K	TOC	498.59	9.66	488.93	10.66	487.93	9	489.59
	Floor	498.88						
MW-L	TOC	498.45	12.51	485.94	13.72	484.73	12.15	486.30
	Floor	498.77						
MW-M	TOC	499.79	10.12	489.67	11.01	488.78	9.2	490.59
	Ground	500.13						
MW-N	TOC	498.26	9.05	489.21	9.94	488.32	8.32	489.94
	Floor	498.54						
MW-O	TOC	496.12					6.1	490.02
	Floor	496.42						
MW-P	TOC	498.61					8.63	489.98
	Floor	498.91						
MW-Q	TOC	498.53					9.24	489.29
	Floor	498.71						
MW-R	TOC	497.85					8	489.85
	Floor	498.08						
MW-S	TOC	498.39					10.08	488.31
	Floor	498.71						
BR-MW-1	TOC	507.37	26.39	480.98	26.75	480.62	26.48	480.89
	Ground	507.75						
BRMW-2	TOC	498.67	15.33	483.34	16.36	482.31	15.41	483.26
	Ground	499.07						
BR-MW-3	TOC	498.13			17.55	480.58	17.22	480.91
	Floor	498.42						
BR-MW-4	TOC	498.47			13.63	484.84	11.73	486.74
	Floor	498.83						
BR-MW-5	TOC	498.66					18.15	480.51
	Floor	498.96						

Notes
ft. amsl = feet above mean sea level
bTOC = below top of casing

Table 4

Summary of Hydraulic Conductivity Results
962, 966, and 972-974 East Main Street
Rochester, New York

NYSDEC Site ID C828210

Well ID	Slug In or Slug Out	K (ft/sec)	K (m/sec)	K (ft/day)
MW-G	Slug In	3.51E-05	1.15E-05	3.03
	Slug Out	1.95E-05	6.41E-06	1.69
MW-I	Slug In	1.99E-05	6.54E-06	1.72
	Slug Out	2.53E-05	8.30E-06	2.19
MW-J	Slug In	2.20E-05	7.22E-06	1.90
	Slug Out	1.41E-05	4.62E-06	1.22
MW-K	Slug In	7.87E-05	2.58E-05	6.80
	Slug Out	1.37E-05	4.48E-06	1.18
MW-L	Slug In	1.48E-05	4.86E-06	1.28
	Slug Out	3.91E-05	1.28E-05	3.38
MW-N	Slug In	4.76E-04	1.56E-04	41.11
	Slug Out	3.04E-05	9.98E-06	2.63
MW-Q	Slug In	5.18E-05	1.70E-05	4.48
	Slug Out	3.40E-05	1.12E-05	2.94
MW-R	Slug In	4.24E-05	1.39E-05	3.66
	Slug Out	2.77E-05	9.09E-06	2.39
MW-S	Slug In	4.01E-05	1.31E-05	3.46
	Slug Out	4.20E-05	1.38E-05	3.63
Overburden Geometric Mean		3.38E-05	1.11E-05	2.92
BRMW-1	Slug In	1.21E-05	3.98E-06	1.05
	Slug Out	3.58E-05	1.17E-05	3.09
BRMW-2	Slug In	5.39E-05	1.77E-05	4.66
	Slug Out	6.11E-05	2.01E-05	5.28
BRMW-3	Slug In	6.19E-05	2.03E-05	5.35
	Slug Out	4.21E-05	1.38E-05	3.63
BRMW-4	Slug In	3.65E-05	1.20E-05	3.15
	Slug Out	4.90E-05	1.61E-05	4.24
Bedrock Geometric Mean		4.01E-05	1.32E-05	3.46
Overall Geometric Mean		**3.56E-05**	**1.17E-05**	**3.08**

Notes:

Hydraulic conductivity of the water-bearing units in select monitoring wells installed at the Site were evaluated using in-situ slug testing techniques

Water level data was recorded using a Heron Dipperlog

Data evaluated using AqteSolv software

Table 5

Summary of Detected Constituents in Crock Sediment Sample
962, 966, 972-974 East Main Street
Rochester, New York

NYSDEC Site C828210

Constituent	A Unrestricted SCO(1)	B Industrial SCO(1)	C Protection of Groundwater SCO(1)	D CP-51 SCL(2)	Sample ID / Sample Date: 151-SED1 3/27/2019	
VOCs						
1,2,4-Trimethylbenzene	3.6	380	3.6	3.6	0.078 J	
4-Isopropyltoluene	NS	NS	10	10	1.40 J	
Methyl Acetate	NS	NS	NS	NS	0.46 J	
Tetrachloroethene (PCE)	1.3	300	1.3	NS	0.12 J	
cis-1,2-Dichloroethene (DCE)	0.25	1000	0.25	NS	1.30 J	AC
n-Butylbenzene	12	1000	12	12	U	
sec-Butylbenzene	11	1000	11	11	U	
TICs	NS	NS	NS	NS	38.9	
VOCs & TICs	NS	NS	NS	NS	42.258	
SVOCs						
Bis(2-ethylhexyl) Phthalate	NS	NS	435	NS	27	
TICs	NS	NS	NS	NS	1345.8	
SVOCs & TICs	NS	NS	NS	NS	1372.8	
Metals and Cyanide						
Aluminum	NA	NA	NA	NS	4050	
Antimony	NA	NA	NA	NS	U	
Arsenic	13	16	16	NS	3.3	
Barium	350	10000	820	NS	61.6	
Beryllium	7.2	2700	47	NS	0.22 J	
Cadmium	2.5	60	7.5	NS	324	ABC
Calcium	NA	NA	NA	NS	23800	
Chromium	30	6800	NA	NS	61.1	A
Cobalt	NA	NA	NA	NS	4.00 J	
Copper	50	10000	1720	NS	1700	A
Iron	NA	NA	NA	NS	60500	
Lead	63	3900	450	NS	527	AC
Magnesium	NA	NA	NA	NS	8480	
Manganese	1600	10000	2000	NS	399	
Mercury	0.18	5.7	0.73	NS	0.517	A
Nickel	30	10,000	130	NS	51.6	A
Potassium	NA	NA	NA	NS	650	
Selenium	3.9	6800	4	NS	5.2	AC
Silver	2	6800	8.3	NS	123	AC
Sodium	NA	NA	NA	NS	490	
Vanadium	NA	NA	NA	NS	16	
Zinc	109	10000	2480	NS	2240	A
Cyanide	27	10000	40	NS	0.32	

Notes:
Concentrations shown are in mg/kg or parts per million (ppm)
(1) = Soil Cleanup Objective (SCO) referenced in 6 NYCRR Part 375 dated 12/14/2006 and CP-51 dated 10/21/10
(2) = Soil Cleanup Level (SCL) referenced in CP-51 dated 10/21/10
VOCs = Volatile Organic Compounds
SVOCs = Semi-Volatile Organic Compounds
NS = No Standard Available
TICs = Tentatively Identified Compounds
J = Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration
U = Not detected above Method Detection Limit
A = Concentration Exceeds Unrestricted Use SCO
B = Concentration Exceeds Industrial Use SCO
C = Concentration Exceeds Protection of Groundwater SCO
D = Concentration Exceeds SCL

Table 6

Summary of Detected Constituents in Crock Water Sample
962, 966, 972-974 East Main Street
Rochester, New York

NYSDEC Site C828210

Constituent	TOGS 1.1.1	134-CS-1		
		3/15/2019		
VOCs				
1,1-Dichloroethene (DCE)	5	0.52	J	
Trichloroethene (TCE)	5	0.53	J	
cis-1,2-Dichloroethene (DCE)	5	230	D	X
Total VOCs	NS	231.05		
TICs	NS	0		
Total TICs and VOCs	NS	231.05		
Metals and Cyanide				
Aluminum	NS	867		
Barium	1,000	35.6		
Cadmium	5	10.7		X
Calcium	NS	40200		
Chromium	50	3.6	J	
Copper	200	104		
Iron	300	2560		X
Lead	25	27.1	J	X
Magnesium	35,000	6970		
Manganese	300	38.4		
Nickel	100	5.9	J	
Potassium	NS	5790	NE	
Silver	50	0.7	J	
Sodium	20,000	91300		X
Thallium	0.5		U	
Vanadium	NS	1	J	
Zinc	2,000	165		
Cyanide	200		U	

Notes
VOCs = Volatile Organic Compounds
TICs = Tentatively Identified Compounds
TOGS 1.1.1 = Groundwater Standard or Guidance Value referenced in NYSDEC Technical and Operational Operational Guidance Series (TOGS) 1.1.1 dated June 1998 as amended by the NYSDEC's supplemental table dated April 2000.
NS = No Standard Available
J = Detected above the MDL but below the Reporting Limit; therefore, result is an estimated concentration
U = Not detected above method detection limit
D = Concentration is a result of a dilution
N = Matrix spike recovery was outside laboratory limits
E = Concentration is estimated due to the serial diluation was outside control limits
X = Exceeds TOGS 1.1.1 Groundwater Standard or Guidance Value

Table 7

Summary of Detected DRO in Surface Soil Samples
962, 966, 972-974 East Main Street
Rochester, New York

NYSDEC Site C828210

Constituent	Sample ID / Sample Date				
	144-SS-3 (0.1)	**146-SS-4 (0.1)**	**147-SS-1 (0.1)**	**148-SS-1 (3.3)**	**150-SS-2 (0.1)**
	3/27/2019	**3/27/2019**	**3/27/2019**	**3/27/2019**	**3/27/2019**
Diesel Range Organics (DRO) as C10-C28 Alkanes	82	87	75	ND	410

Notes:
Concentrations shown are in mg/kg or parts per million (ppm)
Soil Cleanup Objectives (SCOs) are not available for Diesel Range Organics

Table 8

Summary of Detected SVOCs in Surface Soil Samples
962, 966, 972-974 East Main Street
Rochester, New York

NYSDEC Site C828210

Constituent	A Unrestricted SCO(1)	B Industrial SCO(1)	C Protection of Groundwater SCO(1)	D CP-51 SCL(2)	Sample ID / Sample Date: 144-SS-3 (0.1) 3/27/2019			146-SS-4 (0.1) 3/27/2019			147-SS-1 (0.1) 3/27/2019			148-SS-1 (3.3) 3/27/2019			150-SS-2 (0.1) 3/27/2019		
2-Methylnaphthalene	NS	NS	36.4	NS		U			U		0.22	J			U		0.30	J	
Acenaphthylene	100	1000	107	100		U			U		0.27	J			U		1.10		
Anthracene	100	1000	1000	100	0.12	J		0.17	J		0.32	J			U		1.00		
Benz(a)anthracene	1	11	1	1	0.72			1.50		ACD	0.92				U		2.90		ACD
Benzo(a)pyrene	1	1.1	22	1	0.93			2.00		ACD	0.88				U		3.20		AD
Benzo(b)fluoranthene	1	11	1.7	1	1.20		AD	2.80		ACD	1.20		AD	0.14	J		4.10		ACD
Benzo(g,h,i)perylene	100	1000	1000	100	0.90			2.00			0.64			0.12	J		2.20		
Benzo(k)fluoranthene	0.8	110	1.7	0.8	0.46			0.99		AD	0.46				U		1.40		AD
Bis(2-ethylhexyl) Phthalate	NS	NS	435	NS		U			U			U			U			U	
Carbazole	NS	NS	NS	NS	0.11	J		0.24	J		0.41				U		0.66		
Chrysene	1	110	1	1	0.96			2.10		ACD	1.20		ACD	0.14	J		3.20		ACD
Di-n-butyl Phthalate	NS	NS	8.1	NS		U			U		0.21	J			U		0.62		
Dibenz(a,h)anthracene	0.33	1.1	1000	0.33	0.14	J		0.32	J		0.14	J			U		0.50		AD
Dibenzofuran	NS	NS	NS	NS		U			U		0.22	J			U		0.28	J	
Fluoranthene	100	1000	1000	100	1.90			4.10			2.70			0.14	J		6.00		
Fluorene	30	1000	386	30		U			U		0.17	J			U		0.31	J	
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	0.5	0.77		AD	1.80		AD	0.59		AD		U		2.30		AD
Naphthalene	12	1000	12	12		U			U		0.33	J			U		0.27	J	
Phenanthrene	100	1000	1000	100	0.76			1.40			2.60			0.11	J		3.50		
Pyrene	100	1000	1000	100	1.60			3.40			2.30			0.11	J		4.70		
TICs	NS	NS	NS	NS	10.07			11.24			8.45			2.70			21.19		
Total SVOCs & TICs	NS	NS	NS	NS	20.64			34.06			24.23			3.46			59.73		

Notes:

Concentrations shown are in mg/kg or parts per million (ppm)

(1) = Soil Cleanup Objective (SCO) referenced in 6 NYCRR Part 375 dated 12/14/2006 and CP-51 dated 10/21/10

(2) = Soil Cleanup Level (SCL) referenced in CP-51 dated 10/21/10

SVOCs = Semi-volatile Organic Compounds

NS = No Standard Available

therefore, result is an estimated concentration

U = Not detected above Method Detection Limit

A = Concentration Exceeds Unrestricted Use SCO

B = Concentration Exceeds Industrial Use SCO

C = Concentration Exceeds Protection of Groundwater SCO

D = Concentration Exceeds SCL

Table 9

Summary of Detected Metals and Cyanide in Surface Soil Samples
962, 966, 972-974 East Main Street
Rochester, New York

NYSDEC Site C828210

ANALYTE	A Unrestricted SCO(1)	B Industrial SCO(1)	C Protection of Groundwater SCO(1)	Sample ID / Sample Date: 144-SS-3 (0.1) 3/27/2019		146-SS-4 (0.1) 3/27/2019		147-SS-1 (0.1) 3/27/2019		148-SS-1 (3.3) 3/27/2019		150-SS-2 (0.1) 3/27/2019	
Aluminum	NA	NA	NA	5160		6390		3100		3300		4820	
Antimony	NA	NA	NA	U		U		U		12.3		2.80 J	
Arsenic	13	16	16	5		11.5		21.6	ABC	7.7		12.3	
Barium	350	10000	820	57.9		53.4		1610	AC	103		662	A
Beryllium	7.2	2700	47	0.29 J		0.39		0.59		0.44		0.5	
Cadmium	2.5	60	7.5	1.15		2.36		1.48		0.49 J		6.32	A
Calcium	NA	NA	NA	37900		36800		7700		4070		34200	
Chromium	30	6800	NA	16.6		23.9		14.5		7.3		200	A
Cobalt	NA	NA	NA	4.90 J		11.7		6.1		5.90 J		13.1	
Copper	50	10000	1720	31.6		69	A	110	A	169	A	121	A
Iron	NA	NA	NA	16800		24700		32300		16300		25700	
Lead	63	3900	450	68.4	A	68.8	A	177	A	254		210	A
Magnesium	NA	NA	NA	17900		19600		1780		1860		14000	
Manganese	1600	10000	2000	614		580		284		248		419	
Mercury	0.18	5.7	0.73	0.067		0.052		0.584	A	0.248	A	0.993	AC
Nickel	30	10,000	130	20		29.8		20.2		12.3		115	A
Potassium	NA	NA	NA	1010		1440		570		430		990	
Selenium	3.9	6800	4	U		0.80 J		U		U		1.9	
Silver	2	6800	8.3	0.30 J		0.50 J		0.20 J		U		1.20 J	
Sodium	NA	NA	NA	160		120		180		650		240	
Vanadium	NA	NA	NA	15.2		16.3		14.6		13		18.7	
Zinc	109	10000	2480	384	A	292	A	182	A	102		1070	A
Cyanide	27	10000	40	U		0.10 J		0.41		0.14		0.86	

Notes:
Concentrations shown are in mg/kg or parts per million (ppm)
(1) = Soil Cleanup Objective (SCO) referenced in 6 NYCRR Part 375 dated 12/14/2006 and CP-51 dated 10/21/10
NA = No Standard Available
U = Not detected above Method Detection Limit
J = Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration

A = Exceeds Unrestricted Use SCO
B = Exceeds Restricted Industrial Use SCO
C = Exceeds Protection of Groundwater SCO

Table 10

Summary of Detected Pesticide in Surface Soil Samples
962, 966, 972-974 East Main Street
Rochester, New York

NYSDEC Site C828210

ANALYTE	A Unrestricted SCO(1)	B Industrial SCO(1)	C Protection of Groundwater SCO(1)	144-SS-3 (0.1) 3/27/2019		146-SS-4 (0.1) 3/27/2019		147-SS-1 (0.1) 3/27/2019		148-SS-1 (3.3) 3/27/2019		150-SS-2 (0.1) 3/27/2019	
Endrin Aldehyde	NS	NS	NS	U		U		0.0036		0.0031		0.0074	

Notes:
Concentrations shown are in mg/kg or parts per million (ppm)
(1) = Soil Cleanup Objective (SCO) referenced in 6 NYCRR Part 375 dated 12/14/2006 and CP-51 dated 10/21/10
NS = No Standard Available
U = Not detected above Method Detection Limit

Table 11

RSTW
Summary of Detected VOCs in Subsurface Soil/Fill Samples
962, 966, 972-974 East Main Street
Rochester, New York

NYSDEC Site C828210

Constituent	A Unrestricted SCO[1]	B Industrial SCO[1]	C Protection of Groundwater SCO[1]	D CP-51 SCL[2]	TB-03 (0-4)* 9/15/2016	TB-04 (0-4)* 9/15/2016	TB-1(6-7) 2/12/2018	TB-1(13-14) 2/12/2018	TB-2 (2-3) 2/12/2018	TB-4 (15-16) 2/13/2018	TB-5 (9-10) 2/13/2018
1,1,1-Trichloroethane	0.68	1,000	0.68	NS	UJL	UJL	U	U	0.002 J	U	U
1,2,4-Trimethylbenzene	3.6	380	3.60	3.60	UJL	UJL	U	U	0.0016 J	U	0.11 JD
1,2-Dichlorobenzene	1.1	1,000	1.1	NS	UJL	UJL	U	U	U	U	U
1,3,5-Trimethylbenzene	8.4	380	8.4	8.4	UJL	UJL	U	U	U	U	U
Acetone	0.05	1,000	0.05	NS	UJL	UJL	U	U	0.028	U	U
Benzene	0.06	89	0.06	0.06	UJL	UJL	U	U	0.00041 J	U	U
2-Butanone (MEK)	0.12	1,000	0.12	NS	UJL	UJL	U	U	U	U	U
cis-1,2-Dichloroethene	0.25	1,000	0.25	NS	UJL	UJL	6.2 D AC	9 JD AC	0.0083	2.9 D AC	5.6 D AC
Cyclohexane	NS	NS	NS	NS	NT	NT	U	U	U	U	U
Dichloromethane	0.05	1,000	0.05	NS	0.0034 UJL	0.0038 UJL	U	U	U	U	U
Ethylbenzene	1	780	1	1	UJL	UJL	U	U	U	U	U
Isopropylbenzene	NS	NS	NS	2.3	UJL	UJL	U	U	U	U	U
4-Isopropyltoluene	NS	NS	NS	10	UJL	UJL	U	U	U	U	U
Methyl Acetate	NS	NS	NS	NS	NT	NT	U	U	U	U	U
Methylcyclohexane	NS	NS	NS	NS	NT	NT	U	U	U	U	U
n-Butylbenzene	12	1,000	12	12	UJL	UJL	U	U	U	U	U
n-Propylbenzene	3.9	1,000	3.9	3.9	UJL	UJL	U	U	U	U	U
sec-Butylbenzene	11	1,000	11	11	UJL	UJL	U	U	U	U	0.076 JD
tert-Butylbenzene	5.9	1,000	5.9	5.9	UJL	UJL	U	U	U	U	U
Tetrachloroethene (PCE)	1.3	300	1.3	NS	UJL	UJL	0.2 JD	U	U	0.66 JD	U
Trichloroethene (TCE)	0.47	400	0.47	NS	UJL	0.0045 UJL	12 D AC	280 D AC	0.054	28 D AC	0.12 JD
Trichlorofluoromethane (Freon 11)	NS	NS	NS	NS	UJL	UJL	U	U	0.0092	U	U
Toluene	0.7	1,000	0.7	0.7	UJL	UJL	U	U	U	U	U
Vinyl Chloride	0.02	27	0.02	NS	UJL	UJL	U	U	U	U	0.95 D AC
Xylenes	0.26	1,000	1.6	0.26	UJL	UJL	U	U	U	U	U
Total VOCs	NS	NS	NS	NS	0.0034	0.0083	18.4	289	0.1031	31.56	6.856

Constituent	TB-6 (10-11) 2/13/2018	TB-7 (14-15) 2/13/2018	TB-8 (2.5-3.5) 2/13/2018	TB-9 (12-13) 2/13/2018	TB-12 (6-7) 2/16/2018	TB-13 (24-25) 2/16/2018	TB-14 (14-15) 2/16/2018	TB-15 (5-6) 2/16/2018	TB-16 (14-15) 2/16/2018	TB-18 (2-3) 6/18/2018
1,1,1-Trichloroethane	U	U	U	U	U	U	U	U	U	U
1,2,4-Trimethylbenzene	0.0013 J	U	U	U	0.0021 J	U	U	0.057	U	0.001 J
1,2-Dichlorobenzene	0.00079 J	U	U	U	U	U	U	U	U	U
1,3,5-Trimethylbenzene	0.0018 J	U	U	U	0.0014 J	U	U	0.017	U	U
Acetone	0.011	U	U	U	0.012	0.016	0.029	0.074	0.012	U
Benzene	U	U	U	U	0.00078 J	U	0.00043 J	0.00052 J	U	U
2-Butanone (MEK)	U	U	U	U	U	0.0031 J	U	0.0052 J	U	U
cis-1,2-Dichloroethene	U	U	U	11 D AC	U	0.0012 J	0.0011 J	U	U	U
Cyclohexane	U	U	U	U	0.0039 J	0.0084	0.0014 J	U	U	U
Dichloromethane	U	U	U	U	U	0.00079 J	U	0.00096 J	0.00085 J	0.001 J
Ethylbenzene	0.00074 J	U	U	U	0.00028 J	U	U	0.00083 J	U	U
Isopropylbenzene	0.00084 J	U	U	U	U	U	U	0.0013 J	U	U
4-Isopropyltoluene	U	U	U	U	U	0.0036 J	U	0.0033 J	U	U
Methyl Acetate	U	U	U	U	U	U	U	0.0035 J	U	U
Methylcyclohexane	0.0025 J	0.98 D	U	U	0.0045 J	0.02	0.0015 J	U	U	U
n-Butylbenzene	U	0.099 JD	U	U	U	0.021	U	0.0083	U	U
n-Propylbenzene	0.0013 J	U	U	U	U	U	U	0.0041 J	U	U
sec-Butylbenzene	0.00075 J	0.19 JD	U	0.076 JD	U	0.032	U	0.0034 J	U	U
tert-Butylbenzene	0.0011 J	U	U	U	U	0.0096	U	U	U	U
Tetrachloroethene (PCE)	U	U	U	U	U	U	0.0032 J	U	U	U
Trichloroethene (TCE)	0.00021	0.1 JD	2.2 D AC	2.8 D AC	0.0045 J	U	0.0032 J	0.0092	0.0071	0.039
Trichlorofluoromethane (Freon 11)	U	U	U	U	U	U	U	U	U	U
Toluene	U	U	U	U	0.0022 J	U	0.0011 J	U	U	U
Vinyl Chloride	U	U	U	1.3 D AC	U	U	U	U	U	U
Xylenes	0.0013 J	U	U	U	0.00327 J	U	U	0.0105 J	U	U
Total VOCs	0.02363	1.369	2.2	15.176	0.03493	0.11569	0.04093	0.19911	0.01995	0.041

Notes:
Concentrations shown are in mg/kg or parts per million (ppm)
USCO = Unrestricted Soil Cleanup Objectives
ISCO = Restricted Industrial Soil Cleanup Objectives
PGSCO = Protection of Groundwater Soil Cleanup Objectives
Soil Cleanup Objectives (SCOs) are as referenced in 6 NYCRR Part 375-6, Remedial Program Cleanup Objectives, dated December 14, 2006
VOCs = Volatile Organic Compounds
* = Soil/Fill sample not preserved in field in methanol and water; Method 5035A completed in laboratory
NS = No Standard Available
NT = Sample not analyzed for constituent

MDL = Method Detection Limit: The minimum concentration that can be measured and reported with 99 percent confidence that the concentration is greater than zero, but the exact concentration cannot be reliably quantified
J = Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration
U (0.17) = Not detected above Method Detection Limit (MDL provided in parentheses)
UJL = Non-detect is potentially biased low
A = Exceeds Unrestricted Use SCO
B = Exceeds Restricted Industrial Use SCO
C = Exceeds Protection of Groundwater SCO
D = Concentration Exceeds SCL

Table 11 continued

Summary of Detected VOCs in Subsurface Soil/Fill Samples
962, 966, 972-974 East Main Street
Rochester, New York

NYSDEC Site C828210

Constituent	A Unrestricted SCO(1)	B Industrial SCO(1)	C Protection of Groundwater SCO(1)	D CP-51 SCL(2)	Sample ID / Sample Date: 100-TB-28 (11.5) 2/7/2019	101-TB-26(12.5) 2/7/2019	102-TB-27(14) 2/7/2019	103-TB-23(15) 2/8/2019	105-TB-20(13.5) 2/9/2019	107-TB-25(11.5) 2/11/2019	109-TB-21 (9) 2/12/2019	113-TB-22 (13-14) 2/13/2019	115-TB-24 (15.5) 2/14/2019	163-TB-29 (4-8) 8/30/2019	164-TB-30 (5-8) 8/30/2019
1,1,1-Trichloroethane (TCA)	0.68	1000	0.68	NS	U	U	U	0.0025 J	U	U	U	U	U	U	U
1,1-Dichloroethene (1,1-DCE)	0.33	1000	0.33	NS	0.0062	0.0013 J	0.0024 J	U	U	U	U	U	U	U	U
1,2,4-Trimethylbenzene	3.6	380	3.6	3.6	U	U	0.037	U	73 D ACD	U	0.00019 J	U	0.085 J	U	U
1,2-Dichlorobenzene	1.1	1000	1.1	NS	U	U	0.00053 J	U	U	U	U	U	U	U	U
1,3,5-Trimethylbenzene	8.4	380	8.4	8.4	U	U	0.0033 J	U	30 ACD	U	U	U	U	U	U
2-Butanone (MEK)	0.12	1000	0.12	NS	0.0026 J	U	U	U	U	U	U	U	U	U	U
4-Isopropyltoluene	NS	NS	10	10	U	U	0.0012 J	U	7.3	U	U	U	U	U	U
Acetone	0.05	1000	0.05	NS	0.027	0.010	0.0067	0.035	U	U	0.031	U	U	U	U
Benzene	0.06	89	0.06	0.06	0.00045 J	0.00030 J	U	U	U	U	U	U	U	U	U
Carbon Disulfide	NS	NS	2.7	NS	U	0.0021 J	U	U	U	U	U	U	U	U	U
Chloroform	0.37	700	0.37	NS	U	U	U	U	U	U	U	0.013 J	U	U	U
Chloromethane	NS	NS	NS	NS	U	U	U	U	U	U	U	U	U	U	U
Cyclohexane	NS	NS	NS	NS	U	U	U	U	0.58 J	U	0.00065 J	U	U	U	U
Isopropylbenzene (Cumene)	NS	NS	2.3	2.3	U	U	0.0022 J	U	1.5	U	U	U	U	U	U
Methyl Acetate	NS	NS	NS	NS	0.0032 J	U	U	U	U	U	0.002 J	U	U	U	U
Methyl tert-Butyl Ether	NS	1000	0.93	0.93	U	U	U	U	U	U	0.0002 J	U	U	U	U
Methylcyclohexane	NS	NS	NS	NS	0.0011 J	0.002 J	U	U	3	U	0.0011 J	U	0.18 J	U	U
Naphthalene	12	1000	12	12	U	U	U	U	0.63 J	U	U	U	U	U	U
Tetrachloroethene (PCE)	1.3	300	1.3	NS	0.160	0.0013 J	U	0.0038 J	U	23 J AC	U	U	U	0.34 J	15 AC
Toluene	0.7	1000	0.7	0.7	U	U	U	U	U	U	0.00023 J	U	U	U	U
Trichloroethene (TCE)	0.47	400	0.47	NS	12 D AC	0.079	2.1 D AC	2.2 D AC	0.37 J	680 ABC	0.00026 J	18 D AC	U	52 D AC	990 D ABC
Trichlorofluoromethane (CFC 11)	NS	NS	NS	NS	0.00096 J	U	0.0023 J	U	U	U	U	U	U	U	U
Vinyl Chloride	0.02	27	0.02	NS	0.053 AC	0.046 AC	0.13 AC	0.0073	U	U	U	0.065 J AC	U	U	U
cis-1,2-Dichloroethene (DCE)	0.25	1000	0.25	NS	1.4 D AC	0.28 DJ AC	3.3 D AC	0.42 D AC	U	U	U	3.8 AC	U	0.049 J	U
Xylenes	0.26	1000	1.6	0.26	U	U	0.0014 J	U	1.4 J ACD	U	U	U	U	U	U
n-Butylbenzene	12	1000	12	12	U	U	0.0049	U	5.4	U	U	U	U	U	U
n-Propylbenzene	3.9	1000	3.9	3.9	U	U	0.0019 J	U	3.9	U	U	U	U	U	U
sec-Butylbenzene	11	1000	11	11	0.0012 J	0.0024 J	0.0029 J	U	4.7	U	U	U	0.23 J	U	U
tert-Butylbenzene	5.9	1000	5.9	5.9	U	0.0032 J	0.00084 J	U	1	U	U	U	0.11 J	U	U
trans-1,2-Dichloroethene	0.19	1000	0.19	NS	0.012	0.00097 J	0.0058	0.0012 J	U	U	U	0.013 J	U	U	U
TICs	NS	NS	NS	NS	0	0.0372	0.4131	0	906	0	0	0.3	401	0	0
Totals VOCs & TICs	NS	NS	NS	NS	13.66771	0.46577	6.01647	2.67005	1,038.78	703	0.03563	22.191	401.605	52.389	1,005

Notes:
Concentrations shown are in mg/kg or parts per million (ppm)
(1) = Soil Cleanup Objective (SCO) referenced in 6 NYCRR Part 375 dated 12/14/2006 and CP-51 dated 10/21/10
(2) = Soil Cleanup Level (SCL) referenced in CP-51 dated 10/21/10
Soil Cleanup Objectives (SCOs) are as referenced in 6 NYCRR Part 375-6, Remedial Program Cleanup Objectives, dated December 14, 2006
VOCs = Volatile Organic Compounds
* = Soil/Fill sample not preserved in field in methanol and water; Method 5035A completed in laboratory
NS = No Standard Available
TICs = Tentatively Identified Compounds

J = Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration
U = Not detected above Method Detection Limit
D = Concentration is a result of a dilution
A = Concentration Exceeds Unrestricted Use SCO
B = Concentration Exceeds Industrial Use SCO
C = Concentration Exceeds Protection of Groundwater SCO
D = Concentration Exceeds SCL

Table 12

RSTW
Summary of Detected SVOCs in Soil/Fill Samples
962, 966, 972-974 East Main Street
Rochester, New York

NYSDEC Site ID: C828210

Constituent	A Unrestricted SCO(1)	B Industrial SCO(1)	C Protection of Groundwater SCO(1)	D CP-51 SCL(2)	Sample ID / Sample Date: TB-03 (0-4) 9/15/2016	TB-04 (6-8) 9/15/2016	TB-4 (2.5-3.5) 2/13/2018	TB-5 (2-3) 2/13/2018	TB-9 (13-14) 2/13/2018	TB-10 (7-8) 2/13/2018	TB-13 (2-3) 2/16/2018	TB-14 (3.5-4.5) 2/16/2018	TB-16 (4-5) 2/16/2018	TB-19 (3-4) 6/18/208
Acenaphthene	20	1,000	98	20	U	U	U	U	U	42 JD AD	U	U	U	U
Acenaphthylene	100	1,000	107	100	U	U	U	3.2 JD	U	36 JD	U	U	U	U
Anthracene	100	1,000	1,000	100	U	U	U	3.9 D	U	150 D AD	U	U	U	U
Benz(a)anthracene	1	11	1	1	U	U	0.13 J	23 D ABCD	U	190 D ABCD	U	U	0.097 J	0.26 J
Benzo(a)pyrene	1	1.1	22	1	U	U	0.26 J	30 D ABCD	U	160 D ABCD	U	U	0.099 J	0.39
Benzo(b)fluoranthene	1	11	1.7	1	U	U	0.38	32 D ABCD	U	170 D ABCD	U	U	0.12 J	0.42
Benzo(g,h,i)perylene	100	1,000	1,000	100	U	U	0.54	20 D	U	87 D	U	U	0.087 J	0.4
Benzo(k)fluoranthene	0.8	110	1.7	0.8	U	U	0.14 J	11 D ACD	U	65 D ACD	U	U	U	0.15 J
Chrysene	1	110	1	1	U	U	0.18 J	25 D ACD	U	170 D ABCD	U	U	0.099 J	0.27 J
Dibenz(a,h)anthracene	0.33	1.1	1,000	0.33	U	U	0.089 J	4.1 D ABD	U	22 JD ABD	U	U	U	0.07 J
Fluoranthene	100	1,000	1,000	100	0.640 JD	U	0.15 J	50 D	U	440 D AD	U	U	0.23 J	0.42
Fluorene	30	1,000	386	30	U	U	U	1.2 JD	U	91 D AD	U	U	U	U
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	0.5	U	U	0.53	23 D ABCD	U	100 D ABCD	U	U	U	0.42
Naphthalene	12	1,000	12	12	U	U	U	U	U	36 JD ACD	U	U	U	U
Phenanthrene	100	1,000	1,000	100	0.449 JD	U	0.11 J	24 D	0.24 J	470 D AD	U	U	0.19 J	0.23 J
Pyrene	100	1,000	1,000	100	0.508 JD	U	0.12 J	51 D	0.087 J	370 D AD	U	U	0.2 J	0.35 J
Total SVOCs	NS	NS	NS	NS	1.597	0	2.629	301.4	0.327	2,599	0	0	1.122	3.38

Notes:

Concentrations shown are in mg/kg or parts per million (ppm)

(1) = Soil Cleanup Objective (SCO) referenced in 6 NYCRR Part 375 dated 12/14/2006 and CP-51 dated 10/21/10

(2) = Soil Cleanup Level (SCL) referenced in CP-51 dated 10/21/10

SVOCs = Semi-Volatile Organic Compounds

NS = No Standard Available

J = Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration

U = Not detected above Method Detection Limit

A = Concentration Exceeds Unrestricted Use SCO

B = Concentration Exceeds Industrial Use SCO

C = Concentration Exceeds Protection of Groundwater SCO

D = Concentration Exceeds SCL

Table 12 continued

Summary of Detected SVOCs in Soil/Fill Samples
962, 966, 972-974 East Main Street
Rochester, New York

NYSDEC Site ID: C828210

Constituent	A Unrestricted SCO(1)	B Industrial SCO(1)	C Protection of Groundwater SCO(1)	D CP-51 SCL(2)	Sample ID / Sample Date: 110-TB-21 (3) 2/12/2019	117-TB-24 (2.5) 2/14/2019
TICs	NS	NS	NS	NS	26.78 J	6.8 J

Notes:
Concentrations shown are in mg/kg or parts per million (ppm)
USCO = Unrestricted Soil Cleanup Objectives
ISCO = Restricted Industrial Soil Cleanup Objectives
PGSCO = Protection of Groundwater Soil Cleanup Objectives
Soil Cleanup Objectives (SCOs) are as referenced in 6 NYCRR Part 375-6, Remedial Program Cleanup Objectives, dated December 14, 2006
SVOCs = Semi-Volatile Organic Compounds
NS = No Standard Available
J = Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration

Table 13

RSTW
Summary of Detected Metals, Cyanide, and pH in Subsurface Soil Samples
962, 966, 972-974 East Main Street
Rochester, New York

NYSDEC Site ID: C828210

Constituent	A Unrestricted SCO(1)	B Industrial SCO(1)	C Protection of Groundwater SCO(1)	TB-03 (0-4)	TB-04 (6-8)	TB-2 (3-4)	TB-4 (2.5-3.5)	TB-6 (5-6)	TB-9 (13-14)	TB-10 (7-8)	TB-13(2-3)	TB-14(3.5-4.5)	TB-16(4-5)	TB-19(3-4)
Sample Date				9/15/2016	9/15/2016	2/12/2018	2/13/2018	2/13/2018	2/13/2018	2/13/2018	2/16/2018	2/16/2018	2/16/2018	6/18/2018
Aluminum	NS	NS	NS	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	4320
Arsenic	13	16	16	10.7	5.06	NT	6.7	5	NT	5.4	1.9	NT	4.2	6.3
Barium	350	10000	820	697 A	204	NT	67.9	97.3	NT	183	15.3	NT	104	1630
Cadmium	2.5	60	7.5	0.346 J	0.0687 J	NT	0.28 J	0.344 J	NT	0.33 J	0.372 J	NT	0.466 J	2
Mercury	0.18	5.7	0.73	0.121 A	0.0819	NT	0.776	0.069	NT	0.296 A	U	NT	0.054	0.2
Calcium	NS	NS	NS	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	19400
Chromium	30	6800	NS	16.2	8.08	NT	10.8	11.4	NT	8.5	6.4	NT	9.5	53.9
Copper	50	10000	1720	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	50.8 A
Iron	NS	NS	NS	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	71900
Lead	63	3900	450	67.3 A	56.2	NT	405	10.5	NT	443 A	35.8	NT	96.7	111
Magnesium	NS	NS	NS	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	12700
Manganese	1600	10000	2000	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	290
Nickel	30	10000	130	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	14
Potassium	NS	NS	NS	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	633
Selenium	3.9	6800	4	1.52 J	2.05	NT	0.749 J	0.6 J	NT	U	U	NT	0.455 J	1.5
Silver	2	6800	8.3	U	U	NT	0.089 J	U	NT	0.089 J	U	NT	0.2 J	U
Sodium	NS	NS	NS	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	920
Vanadium	NS	NS	NS	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	14.5
Zinc	109	10000	2480	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	167 A
Cyanide	27	10000	40	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	5.69
pH	NS	NS	NS	10.4	9.09	8.18	NT	7.99	8.35	8.1	NT	8.94	NT	NT

Notes:
Concentrations shown are in mg/kg or parts per million (ppm)
(1) = Soil Cleanup Objective (SCO) referenced in 6 NYCRR Part 375 dated 12/14/2006 and CP-51 dated 10/21/10
NS = No Standard Available
NT = Not Tested
J = Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration
U = Not detected above Method Detection Limit

A = Exceeds Unrestricted Use SCO
B = Exceeds Restricted Industrial Use SCO
C = Exceeds Protection of Groundwater SCO

Table 13 continued

Summary of Detected Metals, Cyanide, and pH in Subsurface Soil Samples
962, 966, 972-974 East Main Street
Rochester, New York

NYSDEC Site ID: C828210

Constituent	**A Unrestricted SCO(1)**	**B Industrial SCO(1)**	**C Protection of Groundwater SCO(1)**	Sample ID / Sample Date											
				104-TB-23(3) 2/8/2019		106-TB-20(3.5) 2/9/2019		108-TB-25(11.5) 2/11/2019		110-TB-21 (3) 2/12/2019		112-TB-22 (3-4) 2/13/2019		117-TB-24 (2.5) 2/14/2019	
Aluminum	NS	NS	NS	5210		NT		NT		1040		NT		7260	
Arsenic	13	16	16	15.5	A	NT		NT		2.2		NT		3.1	
Barium	350	10,000	820	1750	AC	NT		NT		4.7		NT		45.8	
Beryllium	7.2	2,700	47	0.535		NT		NT		0.118 J		NT		0.283 J	
Cadmium	2.5	60	7.5	0.849		NT		NT		0.324 J		NT		0.210 J	
Mercury	0.18	5.7	0.73	0.158		NT		NT		U		NT		0.035 J	
Calcium	NS	NS	NS	73,100		NT		NT		129,000		NT		3,190	
Chromium	30	6,800	NS	11.0		NT		NT		3.1		NT		11.3	
Cobalt	NS	NS	NS	4.6 J		NT		NT		1.4 J		NT		4.1 J	
Copper	50	10,000	1,720	60.2	A	NT		NT		4.9		NT		9.4	
Iron	NS	NS	NS	19,900		NT		NT		4,580		NT		12,400	
Lead	63	3,900	450	353	A	NT		NT		23.4		NT		14.8	
Magnesium	NS	NS	NS	25,200		NT		NT		74,700		NT		2,140	
Manganese	1600	10000	2000	416		NT		NT		249		NT		462	
Nickel	30	10,000	130	10.6		NT		NT		3.0 J		NT		8.2	
Potassium	NS	NS	NS	1,020		NT		NT		859		NT		471	
Selenium	3.9	6,800	4	1.4		NT		NT		U		NT		U	
Silver	2	6,800	8.3	0.174 J		NT		NT		U		NT		U	
Sodium	NS	NS	NS	1840		NT		NT		898		NT		903	
Thallium	NS	NS	NS	1.2 J		NT		NT		U		NT		U	
Vanadium	NS	NS	NS	18.7		NT		NT		3.5 J		NT		15.4	
Zinc	109	10,000	2,480	141	A	NT		NT		134	A	NT		40.9	
Cyanide	27	10,000	40	0.25 J		0.04 J		0.75		U		U		U	
pH	NS	NS	NS	NT		NT		NT		NT		NT		NT	

Notes:
Concentrations shown are in mg/kg or parts per million (ppm)
(1) = Soil Cleanup Objective (SCO) referenced in 6 NYCRR Part 375 dated 12/14/2006 and CP-51 dated 10/21/10
NS = No Standard Available
NT = Not Tested
J = Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration
U = Not detected above Method Detection Limit

A = Exceeds Unrestricted Use SCO
B = Exceeds Restricted Industrial Use SCO
C = Exceeds Protection of Groundwater SCO

Table 14A

Summary of Detected VOCs in Overburden Groundwater Samples
962, 966, 972-974 East Main Street
Rochester, New York

NYSDEC Site C828210

Constituent	TOGS 1.1.1	Well ID / Sample Date													
		MW-A					MW-B					MW-C			
		3/16/2018	3/15/2019	8/30/2019	4/1/2020	9/16/2021	3/16/2018	3/14/2019	8/30/2019	4/1/2020	9/15/2021	3/16/2018	3/14/2019	8/30/2019	9/15/2021
1,1,1-Trichloroethane (TCA)	5	U	U	U	U	U	4.8 J	2.3 J	1.8 J	U	U	U	U	U	U
1,1,2-Trichlorotrifluoroethane (CFC 113)	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane (1,1-DCA)	5	U	U	U	U	U	U	0.35 J	0.31 J	U	U	U	U	U	U
1,1-Dichloroethene (1,1-DCE)	5	U	110 J X	U	39 J X	U	U	0.61 J	0.58 J	0.44 J	U	U	U	U	U
1,2,4-Trimethylbenzene	5	140 JD X	93 J X	U	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichlorobenzene	3	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,3,5-Trimethylbenzene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U
2-Butanone (MEK)	50	U	U	U	U	U	U	U	U	U	U	U	U	U	U
2-Hexanone	50	U	U	U	U	U	U	U	U	U	U	U	U	U	U
4-Isopropyltoluene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U
4-Methyl-2-pentanone	NS	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Acetone	50	U	U	U	U	U	U	U	17 B	6.1 J	200 DJH X	U	U	14 BJ	58 JH X
Bromodichloromethane	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Carbon Disulfide	60	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Chloroform	7	840 JD X	U	U	U	U	U	U	0.37 J	U	U	1.6 J	U	0.61 J	U
Chloromethane	NS	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Cyclohexane	NS	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Dichloromethane	5.0	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Isopropylbenzene (Cumene)	NS	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Methylcyclohexane	NS	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Naphthalene	10	U	U	U	U	80 JD X	U	U	U	U	U	U	U	U	1.4 J
Tetrachloroethene (PCE)	5	U	U	U	U	U	1.8 J	1.0 J	1.6 J	0.74 J	U	1.5 J	1.1 J	1.2 J	0.92
Trichloroethene (TCE)	5	95,000 D X	19,000 D X	280 J X	110 X	12 JD X	690 X	380 D X	290 D X	200 X	4,900 D X	52 X	28 X	94 X	120 X
Vinyl Chloride	2	2,200 JD X	2,100 X	2,300 J X	2,300 X	640 D X	26 X	16 X	1.4 J	13 X	56 D X	2.2 J	6.5 X	20 X	U
cis-1,2-Dichloroethene	5	43,000 D X	48,000 D X	66,000 X	19,000 D X	4,200 D X	360 X	190 X	190 X	92 X	1,500 D X	37 X	31 X	310 X	55 X
m,p-Xylenes	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U
n-Butylbenzene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U
n-Propylbenzene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U
sec-Butylbenzene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U
tert-Butylbenzene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U
trans-1,2-Dichloroethene	5	260 JD X	320 J X	260 J X	140 J X	U	1.9 J	0.97 J	1 J	U	U	1.4 J	0.27 J	3.8 J	1.0 J
Total VOCs	NS	141,440	69,623	68,840	21,589	4,932	1,084.5	591.23	504.06	312.28	6,656	95.7	66.87	443.61	236.32
TICs	NS	NT	0	0	0	0	NT	0	0	0	0	NT	0	0	0
Total TICs and VOCs	NS	141,440	69,623	68,840	21,589	5,012	1,084.5	591.23	504.06	312.28	6656	95.7	66.87	443.61	236.32

Notes:
Concentrations shown are in µg/L or parts per billion (ppb)
VOCs = Volatile Organic Compounds
TICs = Tentatively Identified Compounds
TOGS 1.1.1 = Groundwater Standard or Guidance Value referenced in NYSDEC Technical and Operational Operational Guidance Series (TOGS) 1.1.1 dated June 1998 as amended by the NYSDEC's supplemental table dated April 2000.
NS = No Standard Available
J = Detected above the MDL but below the Reporting Limit; therefore, result is an estimated concentration
JH = Result is estimated high
U = Not detected above method detection limit
B = Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result
D = Concentration is a result of a dilution
X = Exceeds TOGS 1.1.1 Groundwater Standard or Guidance Value

Table 14A continued

Summary of Detected VOCs in Groundwater Samples
962, 966, 972-974 East Main Street
Rochester, New York

NYSDEC Site C828210

Constituent	TOGS 1.1.1	Sample ID / Sample Date																
		MW-D				MW-E				MW-F				MW-G				MW-H
		3/16/2018	3/13/2019	8/30/2019	9/16/2021	3/16/2018	3/13/2019	8/30/2019	9/16/2021	3/16/2018	3/14/2019	8/30/2019	9/16/2021	3/16/2018	3/13/2019	8/30/2019	9/16/2021	6/18/2018
1,1,1-Trichloroethane (TCA)	5	U	U	U	U	U	U	U	UJ	U	U	U	U	U	U	U	U	U
1,1,2-Trichlorotrifluoroethane (CFC 113)	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane (1,1-DCA)	5	U	U	U	U	U	U	U	UJ	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene (1,1-DCE)	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-Trimethylbenzene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichlorobenzene	3	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,3,5-Trimethylbenzene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
2-Butanone (MEK)	50	U	U	U	1.9 J	U	U	U	U	U	U	U	4.1 J	U	U	U	U	U
2-Hexanone	50	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
4-Isopropyltoluene	5	U	U	U	U	0.43 J	U	U	U	U	U	U	U	U	U	U	U	U
4-Methyl-2-pentanone	NS	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Acetone	50	U	U	11 B	81 JH X	2.2 J	U	12 B	22 JH	U	U	8.6 BJ	73 JH X	U	U	14 B	55 JH X	U
Bromodichloromethane	5	U	U	U	U	U	U	U	U	U	U		U	U	U		U	U
Carbon Disulfide	60	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Chloroform	7	U	U	0.83 J	2.60	15 X	5.2	6.4	28 X	0.47 J	0.25 J	0.35 J	U	U	U	U	U	U
Chloromethane	NS	U	U	U	U	U	U	U	UJ	U	U	U	U	U	U	U	U	U
Cyclohexane	NS	U	U	U	U	U	U	U	UJ	U	U	U	U	U	U	U	U	U
Dichloromethane	5.0	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Isopropylbenzene (Cumene)	NS	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Methylcyclohexane	NS	U	U	U	U	0.82 J	U	U	U	U	U	U	U	U	U	U	U	U
Naphthalene	10	U	U	U	U	U	U	U	U	U		U	U	U	U	U	U	U
Tetrachloroethene (PCE)	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Trichloroethene (TCE)	5	2.5 J	1.2 J	1.8 J	0.3 J	U	U	0.31 J	0.24 J	4.2 J	0.92 J	1.2 J	0.4 J	6.0 X	2.8 J	4.5 J	6.4 X	5,700 D X
Vinyl Chloride	2	0.5 J	3.1 J X	0.43 J	U	U	0.34 J	U	U	U	U	U	0.08 J	U	U	U	0.14 J	84.00 JD X
cis-1,2-Dichloroethene	5	3.4 J	9.5 X	2.3 J	U	6.4 X	2.7 J	5.3 X	3.4	0.79 J	0.77 J	0.73 J	U	3.1 J	1.9 J	2.3 J	8.8 X	3,800 D X
m,p-Xylenes	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
n-Butylbenzene	5	U	U	U	U	0.92 J	U	U	U	U	U	U	U	U	U	U	U	U
n-Propylbenzene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
sec-Butylbenzene	5	U	U	U	U	4.1 J	0.77 J	U	U	U	U	U	U	U	U	U	U	U
tert-Butylbenzene	5	U	0.29 J	U	U	1.5 J	0.44 J	U	U	U	U	U	U	U	U	U	U	U
trans-1,2-Dichloroethene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	19 J X
Total VOCs	NS	6.4	14.09	16.36	85.84	31.37	9.45	24.01	53.64	5.46	1.94	10.88	77.58	9.1	4.7	20.8	70.34	9603
TICs	NS	NT	0	0	1.94 J	NT	10.6	0	1.18 J	NT	0	0	1.58 J	NT	0	2.46	4.41 J	NT
Total TICs and VOCs	NS	6.4	14.09	16.36	87.78	31.37	20.05	24.01	54.82	5.46	1.94	10.88	79.16	9.1	4.7	23.26	74.75	9603

Notes:

Concentrations shown are in µg/L or parts per billion (ppb)

VOCs = Volatile Organic Compounds

TICs = Tentatively Identified Compounds

TOGS 1.1.1 = Groundwater Standard or Guidance Value referenced in NYSDEC Technical and Operational Operational Guidance Series (TOGS) 1.1.1 dated June 1998 as amended by the NYSDEC's supplemental table dated April 2000.

NS = No Standard Available

J = Detected above the MDL but below the Reporting Limit; therefore, result is an estimated concentration

JH = Result is estimated high

U = Not detected above method detection limit

B = Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result

D = Concentration is a result of a dilution

X = Exceeds TOGS 1.1.1 Groundwater Standard or Guidance Value

Table 14A continued

Summary of Detected VOCs in Overburden Groundwater Samples
962, 966, 972-974 East Main Street
Rochester, New York

NYSDEC Site C828210

Constituent	TOGS 1.1.1	Well ID / Sample Date																
		MW-I				MW-J					MW-K				MW-L			
		3/15/2019	8/30/2019	4/1/2020	9/16/2021	3/14/2019	3/14/2019	8/30/2019	8/30/2019	9/16/2021	3/15/2019	8/30/2019	4/1/2020	9/15/2021	3/14/2019	8/30/2019	4/1/2020	9/15/2021
1,1,1-Trichloroethane (TCA)	5	U	U	U	U	U	U	U	U	U	U	U	U	U	41 J X	3.9 J	U	33 D X
1,1,2-Trichlorotrifluoroethane (CFC 113)	5.0	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane (1,1-DCA)	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	1.1 J	U	U
1,1-Dichloroethene (1,1-DCE)	5	U	U	U	U	U	U	U	U	U	U	U	U	50 D X	U	1.6 J	U	2.3 JD
1,2,4-Trimethylbenzene	5	270 X	4.1 J	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichlorobenzene	3	0.74 J	0.22 J	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,3,5-Trimethylbenzene	5	91 X	4.2 J	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
2-Butanone (MEK)	50	U	U	U	3.6 J	U	U	U	U	2.8 J	U	U	U	U	U	U	U	U
2-Hexanone	50	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
4-Isopropyltoluene	5	9.8 J X	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
4-Methyl-2-pentanone	NS	U	0.45 J	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Acetone	50	U	9.3 BJ	4.8 J	12 JH	2.2 J	U	6 BJ	9.2 BJ	18 JH	U	U	U	U	U	11 BJ	4.9 J	U
Bromodichloromethane	5	U	U	U	U	U	U	U	U	0.78	U	U	U	U	U			U
Carbon Disulfide	60	U	U	U	U	U	U	0.33 J	U	U	U	U	U	U	U	U	U	U
Chloroform	7	U	U	U	U	0.39 J	0.42 J	0.64 J	0.67 J	5.30	U	U	U	U	U	U	U	U
Chloromethane	NS	U	0.39 BJ	U	U	U	U	0.62 BJ	0.65 BJ	U	U	U	U	U	U	U	U	U
Cyclohexane	NS	1.2 J	U	0.28 J	U	U	U	U	U	0.34 J	U	U	U	U	U	U	U	U
Dichloromethane	5.0	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Isopropylbenzene (Cumene)	NS	6.8 J	1.3 J	U	0.9 J	U	U	U	U	U	U	U	U	U	U	U	U	U
Methylcyclohexane	NS	3.5 J	0.35 J	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Naphthalene	10	U	1.7 J	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Tetrachloroethene (PCE)	5	U	U	U	U	U	U	U	U	U	U	U	U	U	17 J X	U	U	2.8 JD
Trichloroethene (TCE)	5	4.2 J	0.31 J	0.41 J	0.29 J	0.39 J	0.24 J	U	U	0.26 J	51,000 X	100,000 X	190,000 D X	19,000 D X	6,500 X	500 X	220 D X	1,000 X
Vinyl Chloride	2	0.84 J	0.74 J	0.42 J	0.16 J	U	U	0.43 J	0.44 J	U	630 J X	2,000 J X	4,400 D X	1,800 D X	240 J X	8.9 J X	31 D X	11 D X
cis-1,2-Dichloroethene	5	2.7 J	0.69 J	U	U	0.25 J	U	2.8 J	2.6 J	U	21,000 X	45,000 X	55,000 D X	20,000 D X	2,600 X	140 X	U	230 D X
m,p-Xylenes	5	8.7 J X	0.73 J	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
n-Butylbenzene	5	5.7 J X	0.28 J	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
n-Propylbenzene	5	12 X	1.9 J	U	1.2 J	U	U	U	U	U	U	U	U	U	U	U	U	U
sec-Butylbenzene	5	7.1 J X	0.78 J	U	U	0.86 J	0.81 J	U	U	U	U	U	U	U	U	U	U	U
tert-Butylbenzene	5	, J X	0.48 J	U	U	0.5 J	0.53 J	U	U	U	U	U	U	U	U	U	U	U
trans-1,2-Dichloroethene	5	U	U	U	U	U	U	U	U	U	110 J X	240 J X	U	95 JD X	13 J X	1.1 J	U	U
Total VOCs	NS	424.28	27.92	5.91	18.19	4.59	2.00	10.82	13.56	27.48	72,740	147,240	249,400	40,945	9,411	668	255.9	1,279
TICs	NS	445.9	23.11	1 J	1.21 J	0	0	0	0	0	0	0	0	0	0	0	0	0
Total TICs and VOCs	NS	870.18	51.03	6.91	19.4	4.59	2.00	10.82	13.56	27.48	72740	147,240	249,400	40,945	9,411	668	255.9	1,299

Notes:
Concentrations shown are in µg/L or parts per billion (ppb)
VOCs = Volatile Organic Compounds
TICs = Tentatively Identified Compounds
TOGS 1.1.1 = Groundwater Standard or Guidance Value referenced in NYSDEC Technical and Operational Operational Guidance Series (TOGS) 1.1.1 dated June 1998 as amended by the NYSDEC's supplemental table dated April 2000.
NS = No Standard Available
J = Detected above the MDL but below the Reporting Limit; therefore, result is an estimated concentration
JH = Result is estimated high
U = Not detected above method detection limit
B = Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result
D = Concentration is a result of a dilution
X = Exceeds TOGS 1.1.1 Groundwater Standard or Guidance Value

Table 14A continued

Summary of Detected VOCs in Overburden Groundwater Samples
962, 966, 972-974 East Main Street
Rochester, New York

NYSDEC Site ID: C828210

Constituent	TOGS 1.1.1	Sample ID / Sample Date													
		MW-M			MW-N				MW-O			MW-P	MW-Q	MW-R	MW-S
		3/15/2019	8/30/2019	9/16/2021	3/15/2019	8/30/2019	4/1/2020	9/16/2021	8/30/2019	4/1/2020	9/16/2021	9/15/2021	9/15/2021	9/15/2021	9/15/2021
1,1,1-Trichloroethane (TCA)	5	U	U	U	U	U	U	U	U	U	U	U	U	110 D X	U
1,1,2-Trichlorotrifluoroethane (CFC 113)	5.0	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane (1,1-DCA)	5	U	U	U	U	U	U	U	U	U	UJ	U	U	UJ	U
1,1-Dichloroethene (1,1-DCE)	5	U	U	U	U	130 J X	62 JD X	23 JD X	U	U	U	U	2.3 JD	5.2 JD X	U
1,2,4-Trimethylbenzene	5	U	U	U	U	U	U	U	U	U	U	1.6 J	U	U	U
1,2-Dichlorobenzene	3	U	U	U	U	U	U	U	U	U	U	0.99 J	U	U	U
1,3,5-Trimethylbenzene	5	U	U	U	U	U	U	U	U	U	U	0.98 J	U	U	U
2-Butanone (MEK)	50	U	U	4.8 J	U	U	U	U	U	U	U	3.5 J	U	U	5.2
2-Hexanone	50	U	0.22 J	U	U	U	U	U	U	U	U	U	U	U	U
4-Isopropyltoluene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U
4-Methyl-2-pentanone	NS	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Acetone	50	3.1 J	11 B	19 JH	U	U	U	UJ	U	U	UJ	25 JH	U	UJ	56 JH X
Bromodichloromethane	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Carbon Disulfide	60	U	U	U	U	U	U	U	U	U	UJ	U	U	UJ	U
Chloroform	7	1.9 J	U	U	U	U	U	U	U	U	U	U	U	U	U
Chloromethane	NS	U	0.38 BJ	U	U	U	U	U	U	U	UJ	U	U	UJ	U
Cyclohexane	NS	U	U	U	U	U	U	U	U	U	UJ	0.97 J	U	UJ	U
Dichloromethane	5.0	U	0.42 J	U	U	U	U	U	U	U	U	U	U	U	U
Isopropylbenzene (Cumene)	NS	U	U	U	U	U	U	U	U	U	U	7.8	U	U	U
Methylcyclohexane	NS	0.51 J	U	U	U	U	U	U	U	U	U	0.76 J	U	U	U
Naphthalene	10	U	U	U	U	U	U	U	U	U	U	9.5	U	U	U
Tetrachloroethene (PCE)	5	U	U	U	280 J X	200 J X	82 JD X	40 D X	180 J X	U	99 JD X	U	U	15 D X	0.27 J
Trichloroethene (TCE)	5	0.59 J	U	U	80,000 X	79,000 X	48,000 D X	5,000 D X	290,000 D X	580,000 D X	61,000 D X	0.53	36 D X	2,200 D X	29 X
Vinyl Chloride	2	U	U	0.74 J	350 J X	180 J X	220 JD X	220 D X	260 J X	560 JD X	30 JD X	3.4 X	68 D X	12 JD X	U
cis-1,2-Dichloroethene	5	0.29 J	0.32 J	1.20 J	12,000 X	12,000 X	9,200 D X	6,700 D X	16,000 X	15,000 D X	3,400 D X	6 X	1,200 D X	940 D X	4.4
m,p-Xylenes	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U
n-Butylbenzene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U
n-Propylbenzene	5	U	U	U	U	U	U	U	U	U	U	8 X	U	U	U
sec-Butylbenzene	5	0.53 J	U	U	U	U	U	U	U	U	U	2.5	U	U	U
tert-Butylbenzene	5	1.1 J	U	0.7 J	U	U	U	U	U	U	U	2.9	U	U	U
trans-1,2-Dichloroethene	5	U	U	U	U	U	U	U	100 J X	U	U	U	U	U	U
Total VOCs	NS	8.02	12.34	26.44	92,630	91,510	57,564	11,983	306,540	595,560	64,529	74.63	1,306	3,282	94.87
TICs	NS	0	0	3.04 J	0	0	0 D	0	0	0	0	27 J	0	0	2.12 J
Total TICs and VOCs	NS	8.02	12.34	29.48	92,630	91,510	57,564	11,983	306,540	595,560	64,529	101.63	1,334	3,282	96.99

Notes:
Concentrations shown are in µg/L or parts per billion (ppb)
VOCs = Volatile Organic Compounds
TICs = Tentatively Identified Compounds
TOGS 1.1.1 = Groundwater Standard or Guidance Value referenced in NYSDEC Technical and Operational Operational Guidance Series (TOGS) 1.1.1 dated June 1998 as amended by the NYSDEC's supplemental table dated April 2000.
NS = No Standard Available
J = Detected above the MDL but below the Reporting Limit; therefore, result is an estimated concentration
JH = Result is estimated high
U = Not detected above method detection limit
B = Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result
D = Concentration is a result of a dilution
X = Exceeds TOGS 1.1.1 Groundwater Standard or Guidance Value

Table 14B

Summary of Detected VOCs in Bedrock Groundwater Samples
962, 966, 972-974 East Main Street
Rochester, New York

NYSDEC Site C828210

Constituent	TOGS 1.1.1	Well ID / Sample Date												
		BRMW-1			BRMW-2			BRMW-3			BRMW-4			BRMW-5
		3/13/2019	8/30/2019	9/16/2021	3/13/2019	8/30/2019	9/16/2021	8/30/2019	4/1/2020	9/16/2021	8/30/2019	4/1/2020	9/15/2021	9/15/2021
1,1,1-Trichloroethane (TCA)	5	U	U	U	5.4 J X	5.8 J X	9.3 JD X	6,100 X	3,900 D X	200 D X	4.6 J	U	150 D X	U
1,1,2-Trichlorotrifluoroethane (CFC 113)	5	U	U	U	U	U	U	300 J X	U	U	U	U	U	U
1,1-Dichloroethane (1,1-DCA)	5	0.23 J	U	U	U	U	U	290 J X	U	U	1.5 J	U	UJ	U
1,1-Dichloroethene (1,1-DCE)	5	U	U	0.4 J	1.9 J	U	1.8 JD	230 J X	120 JD X	8.6 JD X	U	U	8.5 JD X	U
1,2,4-Trimethylbenzene	5	0.35 J	0.49 J	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichlorobenzene	3	U	U	U	U	U	U	U	U	U	U	U	U	U
1,3,5-Trimethylbenzene	5	U	U	U	U	U	U	U	U	U	U	U	U	U
2-Butanone (MEK)	50	U		3.5 J	U	U	U	U	U	U	U	U	U	U
2-Hexanone	50	U	U	U	U	U	U	U	U	U	U	U	U	U
4-Isopropyltoluene	5	U	U	U	U	U	U	U	U	U	U	U	U	U
4-Methyl-2-pentanone	NS	U	U	U	U	U	U	U	U	U	U	U	U	U
Acetone	50	U	13 B	14 JH	U	U	U	U	U	UJ	12 BJ	U	UJ	U
Bromodichloromethane	5	U		U	U	U	U	U	U	U		U	U	U
Carbon Disulfide	60	U	U	U	U	U	U	U	U	U	U	U	U	UJ
Chloroform	7	U	U	U	U	U	U	U	U	U	U	U	U	U
Chloromethane	NS	U	U	U	U	U	U	U	U	U	U	U	UJ	U
Cyclohexane	NS	U	U	U	U	U	U	U	U	U	U	U	UJ	U
Dichloromethane	5.0	U	U	U	U	U	U	U	U	U	U	U	U	U
Isopropylbenzene (Cumene)	NS	U	U	U	U	U	U	U	U	U	U	U	U	U
Methylcyclohexane	NS	0.24 J	U	U	U	U	U	U	U	U	U	U	U	U
Naphthalene	10	U	U	U	U	U	U	U	U	U	U	U	U	U
Tetrachloroethene (PCE)	5	0.42 J	0.47 J	1.6	3.0 J	2.5 J	2.9 JD	120 J X	U	5.8 JD X	1.4 J	U	12 JD X	U
Trichloroethene (TCE)	5	7.5 X	5.5 X	10 X	930 X	1,000 X	1,500 D X	79,000 X	62,000 D X	3,300 D X	560 X	U	6800 JD X	8300 JD X
Vinyl Chloride	2	42 X	26 X	54 X	37 X	45 J X	41 D X	160 J X	240 JD X	180 D X	9.2 J X	U	40 JD X	240 JHD X
cis-1,2-Dichloroethene	5	300 D X	190 X	190 X	510 X	650 X	770 D X	4,500 X	3900 D X	1,100 D X	140 X	190 D X	1200 D X	2200 JD X
m,p-Xylenes	5	U	U	U	U	U	U	U	U	U	U	U	U	U
n-Butylbenzene	5	U	U	U	U	U	U	U	U	U	U	U	U	U
n-Propylbenzene	5	U	U	U	U	U	U	U	U	U	U	U	U	U
sec-Butylbenzene	5	0.60 J	0.27 J	U	U	U	U	U	U	U	U	U	U	U
tert-Butylbenzene	5	1.3 J	1.4 J	U	U	U	U	U	U	U	U	U	U	U
trans-1,2-Dichloroethene	5	1.9 J	1.2 J	0.95 J	3.3 J	3.6 J	23 JD X	U	U	U	3.7 J	U	U	U
Total VOCs	NS	354.54	238.33	274.45	1,490.6	1,707	2,348.0	90,700	70,160	4,794	732.4	190	8210.5	10740
TICs	NS	0	0	0	0	0	0	0	0	0	0	0	0	0
Total TICs and VOCs	NS	354.54	238.33	274.45	1490.6	1,707	2,369.0	90,700	70,160	4,794	732.4	190	8210.5	10740

Notes:
Concentrations shown are in µg/L or parts per billion (ppb)
VOCs = Volatile Organic Compounds
TICs = Tentatively Identified Compounds
TOGS 1.1.1 = Groundwater Standard or Guidance Value referenced in NYSDEC Technical and Operational Operational Guidance Series (TOGS) 1.1.1 dated June 1998 as amended by the NYSDEC's supplemental table dated April 2000.
NS = No Standard Available
J = Detected above the MDL but below the Reporting Limit; therefore, result is an estimated concentration
JH = Result is estimated high
U = Not detected above method detection limit
B = Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result
D = Concentration is a result of a dilution
X = Exceeds TOGS 1.1.1 Groundwater Standard or Guidance Value

Table 15

Summary of Detected SVOCs in Groundwater Samples
962, 966, 972-974 East Main Street
Rochester, New York

Site ID C828210

Constituent	TOGS 1.1.1	Sample ID Sample Date									
		MW-C		126-MW-L		129-MW-J		136-MW-K		138-MW-A	
		3/16/2018		3/14/2019		3/14/2019		3/15/2019		3/15/2019	
2,4-Dinitrophenol	10	U		U		U		5.0 J		U	
2-Methylnaphthalene	NS	U		U		U		U		1.1 J	
Acenaphthylene	NS	U		U		U		U		5.7 J	
Fluoranthene	50	1.6 J		U		U		U		U	
Naphthalene	10	U		U		U		U		80	X
Phenanthrene	50	1.0 J		U		U		U		U	
Pyrene	50	1.6 J		U		U		U		U	
Total SVOCs	NS	4.2		0		0		5		86.8	
TICs	NS	NT		4.6		18.2		5.5		137.6	
Total TICs and SVOCs	NS	4.2		4.6		18.2		10.5		224.4	

Notes:
Concentrations shown are in µg/L or parts per billion (ppb)
SVOCs = Semi-Volatile Organic Compounds
TOGS 1.1.1 = Groundwater Standard or Guidance Value referenced in NYSDEC Technical
MDL = Method Detection Limit: The minimum concentration that can be measured and reported with 99 percent confidence that the concentration is greater than zero, but the exact concentration cannot be reliably quantified
J = Detected above the MDL but below the Reporting Limit; therefore, result is an estimated concentration
U = Not detected above MDL
X = Exceeds TOGS 1.1.1 Groundwater Standard or Guidance Value

Table 16

Summary of Detected Metals and Cyanide in Overburden Groundwater Samples
962, 966, 972-974 East Main Street
Rochester, New York
Site ID C828210

Constituent	TOGS 1.1.1	Sample ID / Sample Date										
		138-MW-A	MW-C	127-MW-C	MW-F	MW-G	135-MW-I	129-MW-J	136-MW-K	126-MW-L	137-MW-M	139-MW-N
		3/15/2019	3/16/2018	3/14/2019	3/16/2018	3/16/2018	3/15/2019	3/14/2019	3/15/2019	3/14/2019	3/15/2019	3/15/2019
Aluminum	NS	89.7 J	U	NT	U	U	NT	6010	47.8 J	373	NT	NT
Antimony	3	60 U	U	NT	U	U	NT	U	60 U	U	NT	NT
Arsenic	25	10 U	5 J	NT	8 J	8 J	NT	U	10 U	U	NT	NT
Barium	1,000	359	477	NT	977	334	NT	117	394	657	NT	NT
Beryllium	3	U	U	NT	U	U	NT	0.2 J	U	U	NT	NT
Cadmium	5	U	U	NT	U	U	NT	U	U	U	NT	NT
Mercury	1	0.2 U	U	NT	0.1 J	U	NT	U	0.2 U	U	NT	NT
Calcium	NS	116000	U	NT	U	U	NT	63700	132000	170000	NT	NT
Chromium	50	U	20	NT	34	29	NT	5.8 J	U	U	NT	NT
Cobalt	NS	1 J	U	NT	U	U	NT	2.1 J	U	0.9 J	NT	NT
Copper	200	U	U	NT	U	U	NT	9.1 J	U	U	NT	NT
Iron	300	4520 X	U	NT	U	U	NT	4160 X	22.9 J	280	NT	NT
Lead	25	U	34 J X	NT	26 J X	36 J X	NT	3 J	U	U	NT	NT
Magnesium	35,000	21600	U	NT	U	U	NT	13100	32400	35800 X	NT	NT
Manganese	300	1170 X	U	NT	U	U	NT	320 X	1510 X	728 X	NT	NT
Nickel	100	U	U	NT	U	U	NT	U	U	U	NT	NT
Potassium	NS	3790 NE	U	NT	U	U	NT	5090 NE	7830 NE	14300 NE	NT	NT
Selenium	10	10 U	11 X	NT	7 J	U	NT	U	10 U	U	NT	NT
Silver	50	U	U	NT	U	U	NT	U	U	U	NT	NT
Sodium	20,000	81300 X	U	NT	U	U	NT	55800 X	106000 X	1080000 X	NT	NT
Vanadium	NS	U	U	NT	U	U	NT	7.8 J	U	U	NT	NT
Zinc	2,000	U	U	NT	U	U	NT	23.2	U	U	NT	NT
Cyanide	200	U	U	9 J	U	U	U	U	U	U	U	U

Notes:
Concentrations shown are in µg/L or parts per billion (ppb)
NS = No Standard Available
TOGS 1.1.1 = Groundwater Standard or Guidance Value referenced in NYSDEC Technical and Operational Operational Guidance Series (TOGS) 1.1.1 dated June 1998 as amended by the NYSDEC's supplemental table dated April 2000.
MDL = Method Detection Limit: The minimum concentration that can be measured and reported with 99 percent confidence that the concentration is greater than zero, but the exact concentration cannot be reliably quantified
J = Detected above the MDL but below the Reporting Limit; therefore, result is an estimated concentration
U = Not detected above method detection limit
NT = Not Tested
N = Matrix spike recovery was outside laboratory limits
E = Concentration is estimated due to the serial diluation was outside control limits
X = Exceeds TOGS 1.1.1 Groundwater Standard or Guidance Value

Table 17

Summary of PFAS and 1,4-Dioxane Test Results in Overburden Groundwater Samples
962, 966, 972-974 East Main Street
Rochester, New York

Site ID C828210

Compound	155-MW-A		156-MW-E		157-MW-L	
	4/5/2019		4/5/2019		4/5/2019	
Perfluorobutanesulfonic acid (PFBS)	1.1	J	0.77	J	1.4	J
Perfluorohexanesulfonic acid (PFHxS)	1.8	J	1.4	J		U
Perfluoroheptanesulfonic acid (PFHpS)		U		U		U
Perfluorooctanesulfonic acid (PFOS)	10		1.5	J	4.8	
Perfluorodecanesulfonic acid (PFDS)		U		U		U
Perfluorobutanoic acid (PFBA)	11		1.3	J	6.5	
Perfluoropentanoic acid (PFPeA)	2.2	J		U	2.2	J
Perfluorohexanoic acid (PFHxA)		U		U		U
Perfluoroheptanoic acid (PFHpA)		U		U	0.97	J
Perfluorooctanoic acid (PFOA)	2.2		1.3	J	2.8	
Perfluoroononanoic acid (PFNA)		U		U		U
Perfluorodecanoic acid (PFDA)		U		U		U
Perfluoroundecanoic acid (PFUnA)		U		U		U
Perfluorododecanoic acid (PFDoDA)		U		U		U
Perfluorotridecanoic acid (PFTriDA)		U		U		U
Perfluorotetradecanoic acid (PFTeDA)		U		U		U
Perfluoroctane sulfonamide (FOSA)		U		U		U
N-Methyl perfluorocatne sulfonamidoacetic acid		U		U		U
N-Ethyl perfluorocatne sulfonamidoacetic acid		U		U		U
6:2 Fluorotelomer sulfonic acid (6:2 FTS)		U		U		U
6:2 Fluorotelomer sulfonic acid (6:2 FTS)		U		U		U
Total PFAS Concentration	28.3		6.27		18.67	
PFOA & PFAS Concentration	12.2		2.8		7.6	
1,4-Dioxane	0.041		[0.027]	U	0.073	

Notes:

All PFAS results are in nanograms per liter (ng/L) or parts per trillion (ppt)

PFAS = Per- and Polyfluoroalkyl Substances

1,4-Dioxane results are in micrograms per liter (µg/L) or parts per billion (ppb)

U = Not detected above method detection limit

J = Estimated Concentration

Table 18

Summary of TO-15 VOCs in Soil Vapor Samples
962, 966, 972-974 East Main Street
Rochester, New York

Site ID C828210

Detected Compound	A Air Guideline	B Indoor Air Initial Commercial	161-VP-1 4/10/2019 Soil Vapor		161-VP-2 4/10/2019 Soil Vapor		161-VP-3 4/10/2019 Soil Vapor		161-VP-4 4/10/2019 Soil Vapor		161-VP-5 4/10/2019 Soil Vapor		166-BG-1 4/10/2019 Ambient Air	
Carbon Tetrachloride	NA	<1.3	1.6		0.25		0.36		U		U		0.40	
1,1-Dichloroethene	NA	<1.4	U		0.91		U		0.37		U		U	
Cis-1,2-Dichloroethene (DCE)	NA	<1.9	140	B	320	B	190	B	290	B	16	B	0.15	
Trichloroethene (TCE)	2	4.2	2.5	A	3,200 D	AB	4,900 D	AB	560 D	AB	2,600 D	AB	20	AB
1,1,1-Trichloroethane	NA	20.6	3.2		30	B	2.3		0.35		7.9		U	
Tetrachloroethene (PCE)	30	15.9	9.9		20	B	11		1.6		8.8		U	
Methylene Chloride	60	10	U		U		0.89		U		3.0		U	
Vinyl Chloride	NA	<1.9	U		0.55		U		U		U		U	
Acetone	NA	98.9	7.8		15		U		U		10		U	
Acetonitrile	NA	NA	0.90		U		U		U		U		U	
Acrolein	NA	NA	U		1.9		U		U		U		U	
Acrylonitrile	NA	NA	U		U		U		U		U		U	
Benzene	NA	9.4	0.42		0.71		0.22		0.78		0.43		0.57	
Bromodichloromethane	NA	NA	0.17		U		U		U		U		U	
2-Butanone (MEK)	NA	12.0	1.7		5.9		U		U		3.9		U	
n-Butyl Acetate	NA	NA	U		1.0		U		U		1.3		U	
Carbon Disulfide	NA	4.2	9.4	B	U		4.2		5.0	B	2.3		U	
Chloroform	NA	1.1	96	B	8.3	B	14	B	0.60		3.1		U	
Chloromethane	NA	3.7	U		U		U		U		U		0.26	
Dichlorodifluoromethane (Freon 12)	NA	16.5	2.5		2.5		2.4		2.4		16		2.4	
1,1-Dichloroethane	NA	<0.7	U		0.47		0.14		4.9	B	0.28		U	
1,2-Dichloroethane	NA	<0.9	U		U		U		U		0.35		U	
Trans-1,2-Dichloroethene	NA	NA	2.6		4.6		9.3		99		1.1		U	
Ethanol	NA	210	37		11		U		U		16		19	
Ethyl Acetate	NA	5.4	6.2	B	7.7	B	1.6		1.7		100	B	U	
Ethylbenzene	NA	5.7	0.93		1.1		U		0.90		0.74		U	
4-Ethyltoluene	NA	3.6	U		0.83		U		U		U		U	
N-Heptane	NA	NA	U		U		U		U		0.80		U	
2-Propanol (Isopropyl Alcohol)	NA	NA	U		9.9		U		U		3.1		U	
d-Limonene	NA	22.5	U		1.3		U		0.89		1.6		U	
Methyl Methacrylate	NA	NA	U		U		U		U		4.7		U	
Naphthalene	NA	5.1	U		0.78		U		U		U		U	
alpha-Pinene	NA	3.6	U		U		U		U		0.71		U	
Propene	NA	NA	1.9		5.9		U		U		2.0		1.0	
Toluene	NA	43.0	3.0		2.3		1.3		2.0		6.2		U	
1,1,2-Trichloroethane	NA	<1.5	U		U		0.56		U		U		U	
Trichlorofluoromethane (Freon 11)	NA	18.1	1.6		6.1		1.3		U		370 D	B	1.3	
1,1,2-Trichlorotrifluoroethane (Freon 113)	NA	3.5	1.4		12	B	U		U		U		U	
1,2,4-Trimethylbenzene	NA	9.5	1.9		4.1		1.1		2.3		2.5		U	
1,3,5-Trimethylbenzene	NA	3.7	U		0.92		U		U		U		U	
m,p-Xylene	NA	22.2	4.3		5.5		1.6		4.2		3.2		U	
o-Xylene	NA	7.9	1.6		2.3		U		1.7		1.5		U	

Notes

Concentrations and comparison criteria in ug/m^3

VOC = Volatile Organic Compound

U = Compound was analyzed but not detected above laboratory method detection limit

J = Compound detected, but below the Reporting Limit and above the Method Detection Limit; therefore, the result is an estimated concentration.

D = Compound from a secondary dilution.

(A) Indoor Air Guideline referenced in NYSDOH document titled "Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York" dated October 2006, and updates dated September 2013 and August 2015

(B) Initial Indoor Air Commercial Benchmarks based on 90^{th} Percentiles referenced in Table C2 of the New York State Department of Health (NYSDOH) document titled "Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York" dated October 2006.

New York State does not have standards, criteria or guidance values for concentrations of VOCs in subsurface vapors (either soil vapor or sub-slab vapor).

Table 19

RSTW
Summary of TO-15 VOCs in Soil Vapor Intrusion Samples
962, 966, 972-974 East Main Street
Rochester, New York

Site ID C828210

Detected Compound	A Air Guideline	B Indoor Air Commercial Benchmark	IA-1	SS-1	IA-2	SS-2	IA-3	SS-3	IA-4	SS-4	IA-5	SS-5	IA-6	SS-6	BG
			Indoor Air	Sub-Slab	Indoor Air	Sub-Slab	Indoor Air	Sub-Slab	Indoor Air	Sub-Slab	Indoor Air	Sub-Slab	Indoor Air	Sub-Slab	Background
			2/25/2020	2/25/2020	2/25/2020	2/25/2020	2/25/2020	2/25/2020	2/25/2020	2/25/2020	2/25/2020	2/25/2020	2/25/2020	2/25/2020	2/25/2020
Carbon Tetrachloride	NA	<1.3	0.415	U	0.39	U	0.315 J	U	0.428	U	0.440	U	0.428	U	0.403
Cis-1,2-Dichloroethene	NA	<1.9	2.29 B	44.8 D B	0.353	363 D B	0.111	1,310 D B	0.095	U	3.71 B	258 D B	1.17	U	U
Trichloroethylene (TCE)	2	4.2	21.6 AB	3,820 D AB	4.05 A	5,750 D AB	1.51	161,000 D AB	0.602	1,390 D AB	23.6 AB	4,460 D AB	6.88 AB	130 AB	U
1,1,1-Trichloroethane	NA	20.6	U	U	U	U	U	U	U	U	U	137 D B	U	U	U
Tetrachloroethylene (PCE)	30	15.9	U	U	U	24.4 D B	U	U	U	U	0.136	U	U	U	U
Acetone	NA	98.9	6.89	U	5.68	168 D B	4.68	U	8.91	210 D B	7.84	71.0 D	5.72	78.4	4.99
Benzene	NA	9.4	2.10	U	1.27	U	U	U	U	U	5.85	4.03 D	1.48	0.834	U
1,3-Butadiene	NA	<3.0	U	U	U	U	U	U	U	U	0.595	U	U	U	U
2-Butanone (MEK)	NA	12.0	U	U	U	24.0 D B	U	U	U	13.1 D B	U	U	U	2.29	U
Carbon Disulfide	NA	4.2	U	U	U	U	U	U	U	U	U	U	U	0.997	U
Chloroethane	NA	<1.1	U	U	U	U	U	U	U	U	U	U	U	U	25.6 B
Chloroform	NA	1.1	U	27.3 D B	U	22.8 D B	U	U	U	7.81 D B	U	19.2 D B	U	U	U
Chloromethane	NA	3.7	1.12	U	1.13	U	1.17	U	1.15	U	1.12	U	1.15	U	1.24
Cyclohexane	NA	NA	U	U	U	U	U	U	U	U	1.34	U	1.14	2.554	U
Dichlorodifluoromethane (Freon 12)	NA	16.5	2.39	U	2.38	U	2.13	U	3.79	61.8 D B	2.49	17.3 D B	2.43	2.11	2.53
1,1-Dichloroethane	NA	<0.7	U	U	U	U	U	U	U	U	U	5.75 D B	U	U	U
Trans-1,2-Dichloroethene	NA	NA	U	U	U	28.9 D	U	U	U	U	U	7.73 D	U	U	U
Ethanol	NA	210	75.2	U	24.5	U	26.2	U	97.2	U	27.3	U	17.5	23.6	U
Ethyl Acetate	NA	5.4	U	U	U	U	U	U	1.90	U	U	U	U	U	U
4-Ethyltoluene	NA	3.6	1.59	U	U	U	U	U	U	U	U	U	U	U	U
N-Heptane	NA	NA	U	U	U	12.0 D	U	U	U	U	U	6.93 D	U	2.97	U
Hexane (N-Hexane)	NA	10.2	U	U	U	U	U	U	U	U	0.885	U	U	2.57	U
Isopropyl Alcohol (Isopropanol)	NA	NA	2.44	U	U	U	U	U	U	9.34 D	1.50	U	U	3.64	U
4-Methyl-2-Pentanone (MIBK)	NA	6.0	U	U	U	U	U	U	U	16.9 D B	U	57.4 D B	U	U	U
Tertiary Butyl Alcohol	NA	NA	U	U	U	U	U	U	U	25.6 D	U	U	U	U	U
Toluene	NA	43.0	1.24	U	0.972	12.6 D	0.920	U	0.950	62.6 D B	2.25	25.4 D	1.10	2.71	U
Trichlorofluoromethane (Freon 11)	NA	18.1	1.26	U	1.26	U	U	U	1.49	U	1.40	1020 D B	1.40	1.88	U
1,2,4-Trimethylbenzene	NA	9.5	8.41	U	U	U	U	U	U	5.90 D	1.34	6.44 D	U	3.95	U
1,3,5-Trimethylbenzene	NA	3.7	1.91	U	U	U	U	U	U	U	U	U	U	U	U
m,p-Xylene	NA	22.2	1.81	U	U	U	U	U	U	U	U	U	U	3.01	U
o-Xylene	NA	7.9	1.18	U	U	U	U	U	U	6.43 D	U	U	U	1.21	U

Notes

Concentrations and comparison criteria in $ug/m^{3;}$ no NYSDOH criteria is available for soil vapor samples.

NA = Not available

VOC = Volatile Organic Compound

U = Compound was analyzed but not detected at concentrations greater than laboratory detection limit

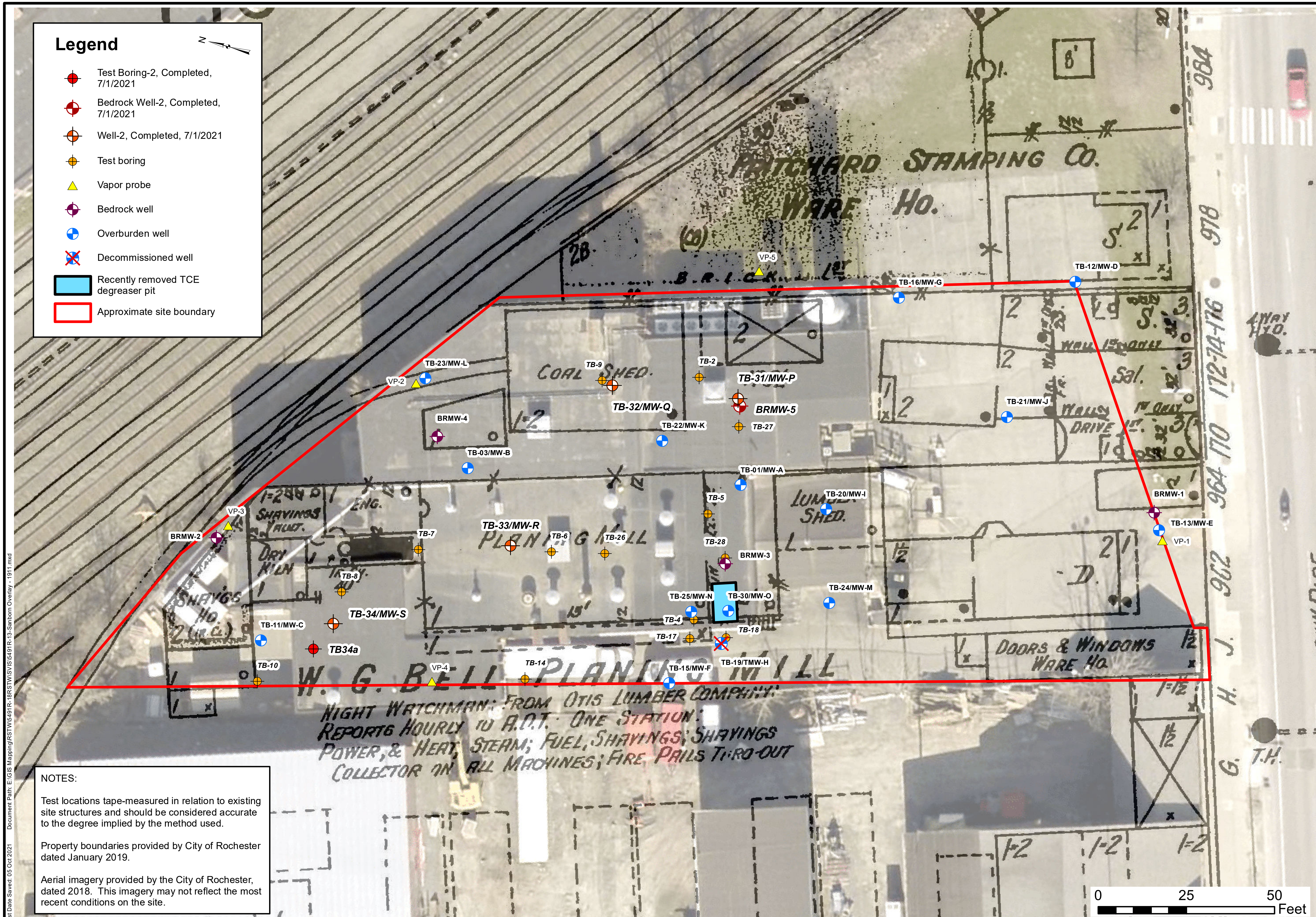
D = Compound from a secondary dilution.

(A) Air Guideline referenced in NYSDOH document titled "Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York" dated October 2006, and updates dated September 2013 and August 2015

(B) Indoor Air Commercial Benchmarks based on 90^{th} Percentiles referenced in Table C2 of the New York State Department of Health (NYSDOH) document titled "Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York" dated October 2006

APPENDIX A

HISTORIC SANBORN MAPS OVERLAIN ON CURRENT AERIAL IMAGE



NOTES:

Test locations tape-measured in relation to existing site structures and should be considered accurate to the degree implied by the method used.

Property boundaries provided by City of Rochester dated January 2019.

Aerial imagery provided by the City of Rochester, dated 2018. This imagery may not reflect the most recent conditions on the site.

Last Date Saved: 05 Oct 2021 Document Path: E:\GIS Mapping\RSTW\5491R-18RSTW\SVIS\5491R-13-Sanborn Overlay - 1911.mxd

PROJECT MANAGER	DATE
HMM	10-2021
DRAWN BY	DATE DRAWN
CAH	10-2021
SCALE	DATE ISSUED
AS NOTED	10-05-2021

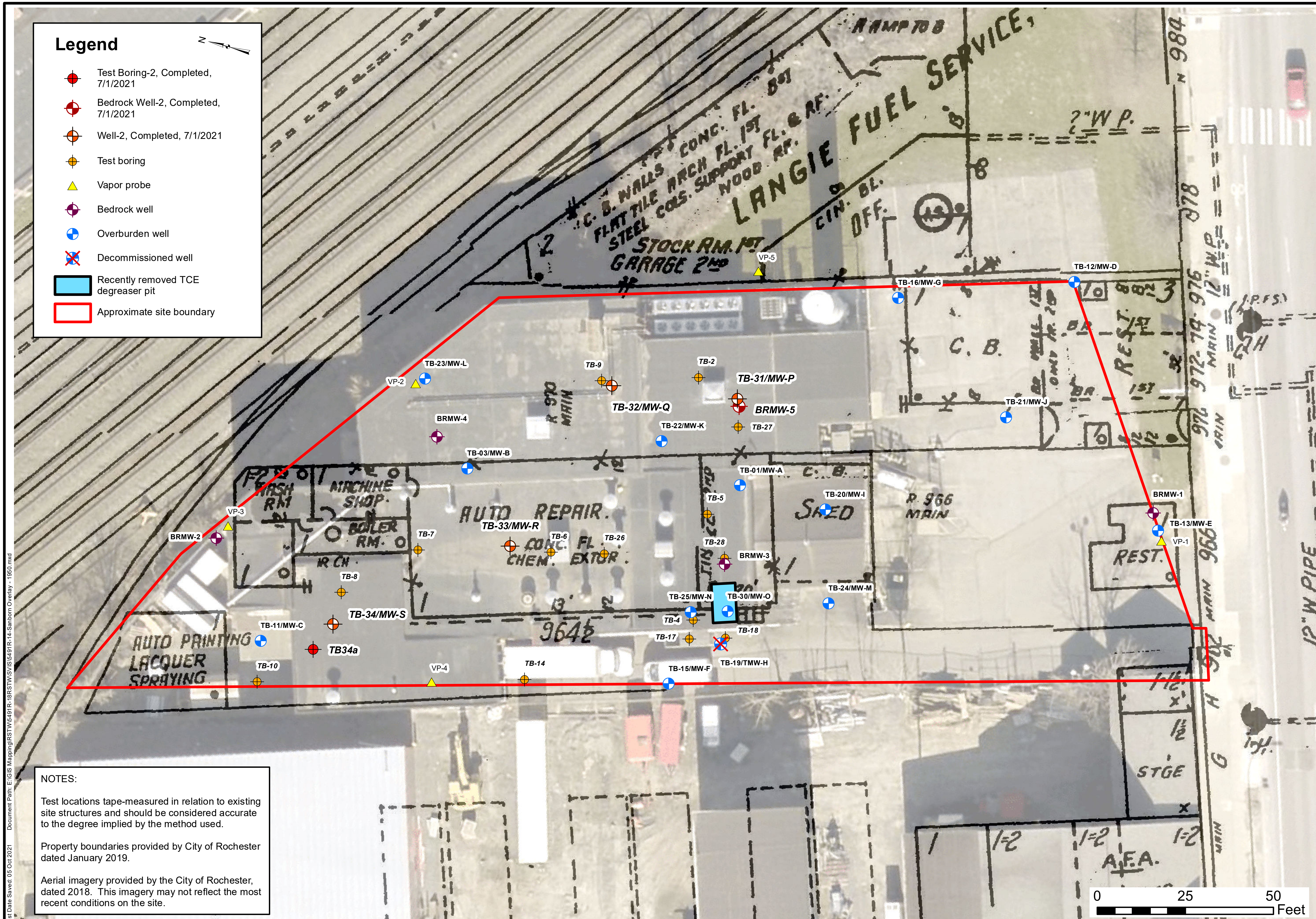
DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170

Project Title
962, 966, 972-974 EAST MAIN STREET
ROCHESTER, NEW YORK
NYSDEC SITE NO. C828210

Drawing Title
Site Plan with 1911 Sanborn Map Overlay

Project No.
5491R-18

FIGURE A1



PROJECT MANAGER: HMM	DATE: 10-2021
DRAWN BY: CAH	DATE DRAWN: 10-2021
SCALE: AS NOTED	DATE ISSUED: 10-05-2021

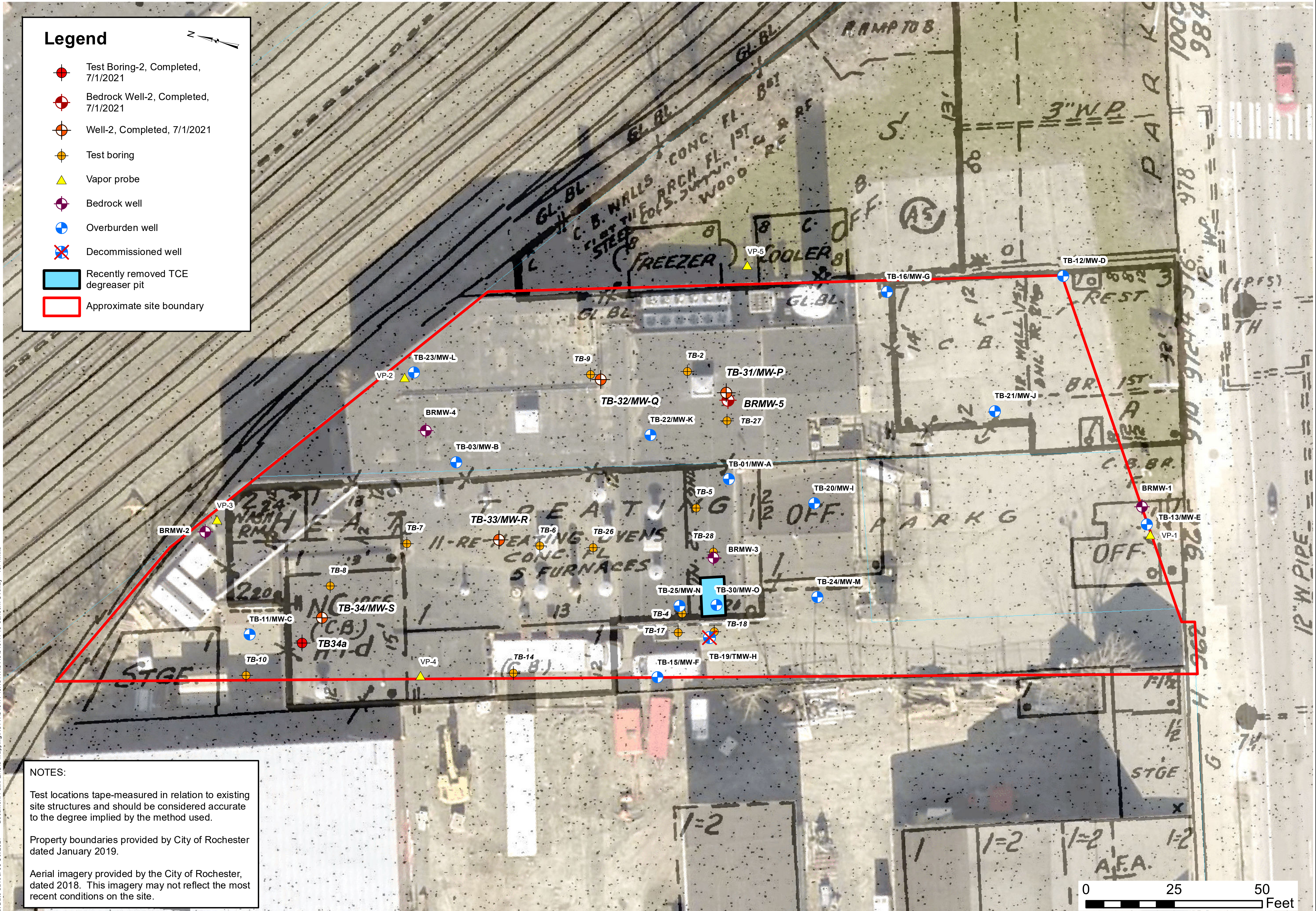
day DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170

Project Title: 962, 966, 972-974 EAST MAIN STREET
ROCHESTER, NEW YORK
NYSDEC SITE NO. C828210

Drawing Title: Site Plan with 1950 Sanborn Map Overlay

Project No. 5491R-18

FIGURE A2



Legend

- Test Boring-2, Completed, 7/1/2021
- Bedrock Well-2, Completed, 7/1/2021
- Well-2, Completed, 7/1/2021
- Test boring
- Vapor probe
- Bedrock well
- Overburden well
- Decommissioned well
- Recently removed TCE degreaser pit
- Approximate site boundary

NOTES:

Test locations tape-measured in relation to existing site structures and should be considered accurate to the degree implied by the method used.

Property boundaries provided by City of Rochester dated January 2019.

Aerial imagery provided by the City of Rochester, dated 2018. This imagery may not reflect the most recent conditions on the site.

Last Date Saved: 05 Oct 2021 Document Path: E:\GIS Mapping\RSTW\5491R-18\RSTW\SIS\5491R-15-Sanborn Overlay - 1971.mxd

DATE	10-2021
DATE DRAWN	10-2021
DATE ISSUED	10-05-2021
PROJECT MANAGER	HMM
DRAWN BY	CAH
SCALE	AS NOTED

day
DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170

Project Title
962, 966, 972-974 EAST MAIN STREET
ROCHESTER, NEW YORK
NYSDEC SITE NO. C828210

Drawing Title
Site Plan with 1971 Sanborn Map Overlay

Project No.
5491R-18

FIGURE A3

APPENDIX B

TEST BORING LOGS
SURFACE SOIL LOGS
MONITORING WELL INSTALLATION LOGS
VAPOR PROBE INSTALLATION LOGS

TEST BORING LOGS

day
DAY ENVIRONMENTAL, INC.
ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

Test Boring TB-1

Project #:	5285S-16
Project Address:	962, 966, 972-974 E. Main St. Rochester, NY
DAY Representative:	H. McLennan
Drilling Contractor:	Zebra Technical
Sampling Method:	Direct Push
Ground Elevation:	498.80 ft. amsl
Datum:	NAVD 88
Date Started:	2/12/2018
Date Ended:	2/12/2018
Borehole Depth:	16.0'
Borehole Diameter:	2 1/4"
Completion Method:	■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date):	490.04 ft. amsl (8/4/2021)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
	NA	S-1	0-4	56	NA	133.7	86.6	Concrete slab	**Installed MW-A**
1								Brown, Sand and Gravel, damp (FILL)	
							92.3	Brown, Sandy SILT, some Sand, trace Clay, trace Gravel, damp to moist	
2							96.4		
3							95.2		
4	NA	S-2	4-8	88	NA	395.1	142.6		
5							303.9		
6							375.6		**Black Staining, possibly organic (~6-7 ft. bgs)**
7							145.2	Gray, Sandy SILT, some Clay, moist to wet	
8	NA	S-3	8-12	56	NA	387.3	185.5	Gray, Silty CLAY, some Sand, moist to wet	
9							344.2	...broken Rock	
10							371.1	Brown, Silty SAND, trace Clay, wet	
11							398.6		
12	NA	S-4	12-16	96	NA	356.6	248.8	Gray-Brown, GRAVEL and coarse SAND, wet	
13							380.2		
14							230.0	…gray, some coarse Sand	
15							131.1		
16								Test Boring Complete @ 16.0	

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-1

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com
420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

day

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Test Boring TB-2

Page 1 of 1

Project #: 5285S-16
Project Address: 962, 966, 972-974 E. Main St.
Rochester, NY
DAY Representative: H. McLennan
Drilling Contractor: Zebra Technical
Sampling Method: Direct Push

Date Started: 2/12/2018 Date Ended: 2/12/2018
Borehole Depth: 16.0' Borehole Diameter: 2 1/4"
Completion Method: ☐ Well Installed ☐ Backfilled with Grout ■ Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
							0.9	Concrete Slab	
1							1.1	Brown, Silty Sand, damp (FILL)	
							2.3	Dark Brown, Silt, some Sand, some Gravel, trace Ash, trace Coal, damp (FILL)	
2	NA	S-1	0-4	73	NA	8.1	3.1		
3							3.2		
4							2.8		
5							2.4	Brown, SILT, some Sand, trace Gravel, trace Clay, moist	
6	NA	S-2	4-8	75	NA	14.7	1.9	...moisture increasing	
7							1.7		
8							2.3	Brown, Silty CLAY, some Sand, trace Gravel, wet	
9							1.9		
10	NA	S-3	8-12	100	NA	27.1	3.2		
11							69.9		
							112.9		
12							22.8		
13							80.3	Brown, coarse SAND and GRAVEL ...some silty Clay, little weathered Rock fragments, wet	
14	NA	S-4	12-16	100	NA	90.0	142.4		
15							67.2		
16								Test Boring Complete @ 16.0'	

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-2

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825

www.dayenvironmental.com

420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

day

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Test Boring TB-3

Project #: 5285S-16
Project Address: 962, 966, 972-974 E. Main St.
Rochester, NY
DAY Representative: H. McLennan
Drilling Contractor: Zebra Technical
Sampling Method: Direct Push

Ground Elevation: 498.84 ft. amsl
Datum: NAVD 88
Date Started: 2/12/2018
Date Ended: 2/12/2018
Borehole Depth: 16.0'
Borehole Diameter: 2 1/4"
Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): 487.53 ft. amsl (8/4/2021)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
								Concrete Slab	**Installed MW-B**
1							1.2	Light Brown, Sand and Gravel, damp (FILL)	
2	NA	S-1	0-4	50	NA	13.2	1.1	Black and Brown, Silt and Gravel, trace Coal, trace Glass, damp (FILL)	
3							1.3		
4									
5							1.4		
6	NA	S-2	4-8	31	NA	8.9			
7							1.2		
8							2.4	...Rock	
9								Red-Brown, Silty CLAY, little Gravel, moist	
10	NA	S-3	8-12	71	NA	8.7	3.6		
11								Light Brown, silty CLAY, wet	
12							3.4	Red-Brown, clayey SILT, trace Gravel, trace Sand, wet	
13							2.5		
14	NA	S-4	12-16	75	NA	11.6	3.1	Brown, Silty GRAVEL and Coarse SAND, little Clay, wet	
15							4.7		
16								Tan, fine Silty SAND, wet	
								Test Boring Complete @ 16.0'	

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-3

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825

www.dayenvironmental.com

420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

day
DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

Test Boring TB-4

Project #: 5285S-16
Project Address: 962, 966, 972-974 E. Main St. Rochester, NY
DAY Representative: H. McLennan
Drilling Contractor: Zebra Technical
Sampling Method: Direct Push

Date Started: 2/13/2018 Date Ended: 2/13/2018
Borehole Depth: 16.0' Borehole Diameter: 2 1/4"
Completion Method: ☐ Well Installed ☐ Backfilled with Grout ■ Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
0-1	NA	S-1	0-4	58	NA	10.2	3.2	Concrete Slab / Gray, Sand and Gravel, moist (FILL)	
1-2							3.5	Tan, fine Sand (FILL)	
2-3							7.5	Black/Brown, Sandy Silt, trace Coal (FILL)	
3-4							6.1	Brown, Silty SAND, trace Clay, moist	
4-5	NA	S-2	4-8	54	NA	126	2.7	...little CLAY, some Gravel	
5-6							3.3		
6-7							4.9		
7-8							8.0	…little weathered Rock fragments	
8-9	NA	S-3	8-12	56	NA	381	73.6		
9-10							233	Brown, Clayey SILT, little Gravel, moist to wet	
10-11							321.5		
11-12							308.9	Brown, coarse SAND and GRAVEL, little Silt, wet	
12-13	NA	S-4	12-16	44	NA	115	332.2		
13-14							345.5		
14-15							356.6		
15-16							397.0		
16								Test Boring Complete @ 16.0'	

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-4

day

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Test Boring TB-5

Project #: 5285S-16
Project Address: 962, 966, 972-974 E. Main St. Rochester, NY
DAY Representative: H. McLennan
Drilling Contractor: Zebra Technical
Sampling Method: Direct Push

Date Started: 2/13/2018
Date Ended: 2/13/2018
Borehole Depth: 16.0'
Borehole Diameter: 2 1/4"
Completion Method: ☐ Well Installed ☐ Backfilled with Grout ■ Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
							52.1	Concrete Slab	
1								Gray, Sand and Gravel, damp (FILL)	
							22.4	Brown, Silt, some Sand, trace Gravel, damp (FILL)	
2	NA	S-1	0-4	69	NA	49.0	44.8		
3								...Black	
							128.2	...Brown, SILT, some Clay	
4							65.0		
5							78.3		
6	NA	S-2	4-8	71	NA	100.9	165.2	…little weathered Rock fragments	
7							73.6		
8							89.1		
9							241.3	Gray/Brown, Clayey, coarse SAND and GRAVEL, little Silt, wet	
10	NA	S-3	8-12	50	NA	97.0	113.8		
11							107.8		
12							67.2	…some Sand	
13							279.5		
14	NA	S-4	12-16	48	NA	101.2	67.2		
15							36.4		
16								Test Boring Complete @ 16.0'	

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-5

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825

www.dayenvironmental.com

420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

Test Boring TB-6

Project #: 5285S-16
Project Address: 962, 966, 972-974 E. Main St. Rochester, NY
DAY Representative: H. McLennan
Drilling Contractor: Zebra Technical
Sampling Method: Direct Push

Date Started: 2/13/2018
Date Ended: 2/13/2018
Borehole Depth: 16.0'
Borehole Diameter: 2 1/4"
Completion Method: ☐ Well Installed ■ Backfilled with Grout ☐ Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
							4.7	Concrete Slab	
1								Dark Gray, Silty Sand, damp (FILL)	
							7.3	…little Broken Rock	
2	NA	S-1	0-4	24/48	NA	6.4		Brown, Sandy Silt, some Sand, trace Gravel, damp (FILL)	
							6.7		
3							7.4	…little broken Rock, litle Brick	
4								Brown, Clayey Silt, some Gravel, little Sand, moist (FILL)	
							20.7		
5							23.2		
6	NA	S-2	4-8	37/48	NA	5.3		Gray, Clayey SILT, trace Sand, trace Gravel, moist (FILL)	
							19.8	...Brown, little Brick fragments, little Coal fragments	
7							20.3		
8							18.2		
9							19.6		
10	NA	S-3	8-12	36/48	NA	9.1		Gray/Brown, Clayey Silt, some Gravel, some Sand, trace Coal (FILL)	
							20.7		
11							17.6		
12							5.6	Brown, medium to coarse SAND, wet	
13							5.4		
14	NA	S-4	12-16	38/48	NA	18.5			
							5.3		
15							5.3		
16								Test Boring Complete @ 16.0'	

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-6

day

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Test Boring TB-7

Page 1 of 1

Project #: 5285S-16
Project Address: 962, 966, 972-974 E. Main St.
Rochester, NY
DAY Representative: H. McLennan
Drilling Contractor: Zebra Technical
Sampling Method: Direct Push

Date Started: 2/13/2018 Date Ended: 2/13/2018
Borehole Depth: 16.0' Borehole Diameter: 2 1/4"
Completion Method: ☐ Well Installed ☐ Backfilled with Grout ■ Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
							3.9	Concrete Slab	
1								Dark Brown, coarse Sand, trace Gravel, trace Brick, damp (FILL)	
							3.9	Brown, SILT, some Sand, trace Clay, trace Gravel, damp	
2	NA	S-1	0-4	75	NA	11.5	3.1		
3							2.5		
4							1.9	Brown, CLAY, some Sand, trace Gravel, trace Silt, moist	
5							1.4		
6	NA	S-2	4-8	50	NA	11.6	1.4		
7							1.3	Brown, Silty fine SAND, trace Gravel, moist to wet	
8							7.3	...little Gravel	
9							7.4		
10	NA	S-3	8-12	50	NA	21.5	6.7		
11							6.5	Brown, Silty CLAY, little Gravel, trace Sand, wet	
12							29.5	...Gray/Brown	
13							53.3	Gray, coarse SAND and GRAVEL, trace Silt, trace Clay, wet	
14	NA	S-4	12-16	63	NA	52.3	56.1		
15							14.2		
16								Test Boring Complete @ 16.0'	

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-7

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825

www.dayenvironmental.com

420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

day

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 5285S-16
Project Address: 962, 966, 972-974 E. Main St.
Rochester, NY
DAY Representative: H. McLennan
Drilling Contractor: Zebra Technical
Sampling Method: Direct Push

Test Boring TB-8

Date Started: 2/13/2018 Date Ended: 2/13/2018
Borehole Depth: 16.0' Borehole Diameter: 2 1/4"
Completion Method: ☐ Well Installed ☐ Backfilled with Grout ■ Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
							38.6	Concrete Slab	
1								Dark Gray, Sand and Gravel, damp (FILL)	
							29.3		
2	NA	S-1	0-4	50	NA	18.5		Brown, Silt some Sand, damp (FILL)	
							40.9	Black, Silt, some Ash and some Coal, damp (FILL)	
3								Brown, SILT, some Sand, little Gravel, moist	
							30.9		
4									
5									
6	NA	S-2	4-8	20	NA	18.0	40.1		
7									
8								...trace weather Rock fragments	
9							9.2	Light Brown, Silty SAND, some Gravel, moist to wet	
10	NA	S-3	8-12	30	NA	26.1			
11							8.0		
12								...little weathered Rock fragments	
							13.6	Brown, Silty coarse SAND and GRAVEL, some Silt, trace Clay, wet	
13									
14	NA	S-4	12-16	50	NA	23.2	17.0		
15							20.5		
16								Test Boring Complete @ 16.0'	

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-8

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825

www.dayenvironmental.com

420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

day

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #:	5285S-16
Project Address:	962, 966, 972-974 E. Main St. Rochester, NY
DAY Representative:	H. McLennan
Drilling Contractor:	Zebra Technical
Sampling Method:	Direct Push

Test Boring TB-9

Date Started: 2/13/2018 Date Ended: 2/13/2018

Borehole Depth: 16.0' Borehole Diameter: 2 1/4"

Completion Method: ☐ Well Installed ☐ Backfilled with Grout ■ Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
							30.9	Concrete Slab	
1								Light Brown, Sand and Gravel, damp (FILL)	
								Brown, Clayey Silt, some Sand, damp (FILL)	
2	NA	S-1	0-4	50	NA	20.1	28.9	...Broken Rock	
								Dark Brown, Silty Sand, some Gravel, damp (FILL)	
3							32.2		
4							17.9	Dark Brown to Black, Silt, some Sand, some Coal fragments, damp (FILL)	
5							18.0	Brown, SILT, little Clay, little Sand, moist	
6	NA	S-2	4-8	75	NA	21.2	19.2		
7							17.6		
8							18.5	...some medium Sand, wet	
9							15.2		
10	NA	S-3	8-12	60	NA	51.3	36.2		
11							47.5	...trace Clay	
12							69.8	Brown, fine Clayey SAND, little Silt, wet	**Petroleum-type sheen observed @ 12.0'**
13							79.3		
14	NA	S-4	12-16	50	NA	58.1	64.5	Brown, SAND and GRAVEL, little Silt, wet	
15							81.8		
16								Test Boring Complete @ 16.0'	

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-9

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825

www.dayenvironmental.com

420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

Project #: 5285S-16
Project Address: 962, 966, 972-974 E. Main St.
Rochester, NY
DAY Representative: H. McLennan
Drilling Contractor: Zebra Technical
Sampling Method: Direct Push

Test Boring TB-10

Date Started: 2/13/2018 Date Ended: 2/13/2018
Borehole Depth: 10.5' Borehole Diameter: 2 1/4"
Completion Method: ☐ Well Installed ☐ Backfilled with Grout ■ Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
							10.0	Concrete Slab	
1								Gravel, damp (FILL)	
							17.7	Dark Brown, Silt, some Sand, damp (FILL)	
2	NA	S-1	0-4	75	NA	36.7		...ash layer	
							12.5		
3								...Broken Rock	
							17.4	Brown, Silt, some Sand, some Gravel, moist (FILL)	
4							17.7	...little wood fibers	
5									
6	NA	S-2	4-8	30	NA	36.4	18.9	...Broken Red Brick	
7									
								Ash, some Silty Sand, some Gravel, moist (FILL)	
8							24.3	Brown, Silty CLAY, little Gravel, wet	
9							25.5		
10	NA	S-3	8-12	40	NA	22.3	25.3	...little weathered Rock fragments	
11								Equipment Refusal @ 10.5'	
12									
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-10

Project #: 5285S-16
Project Address: 962, 966, 972-974 E. Main St.
Rochester, NY
DAY Representative: H. McLennan
Drilling Contractor: Zebra Technical
Sampling Method: Direct Push

Test Boring TB-11

Ground Elevation: 499.11 ft. amsl
Datum: NAVD 88
Date Started: 2/14/2018
Date Ended: 2/14/2018
Borehole Depth: 18.0'
Borehole Diameter: 2 1/4"
Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): 488.69 ft. amsl (8/4/2021)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
								Concrete Slab	**Installed MW-C**
1							2.7	Dark Brown, Clayey Silt, moist (FILL)	
2	NA	S-1	0-5	35	NA	23.4			
3									
4							3.5	Brown, mottled, Silty Sand, little Gravel, moist (FILL)	
5									
6							2.3		
7	NA	S-2	5-10	50	NA	13.6	2.9		
8									
9							1.6		
10								Brown, Silty CLAY, little Gravel, wet	
11							1.3	…little weathered Rock fragments	
12							1.7		
	NA	S-3	10-15	65	NA	12.2		Brown, SILT, some Sand, wet	
13							1.5	...little weathered Rock fragments	
14							1.5		
15									
16	NA	S-4	15-16	60	NA	8.9	1.6	Brown, GRAVEL, some Coarse Sand, wet	

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-11

Project #:	5285S-16
Project Address:	962, 966, 972-974 E. Main St. Rochester, NY
DAY Representative:	H. McLennan
Drilling Contractor:	Zebra Technical
Sampling Method:	Direct Push

Test Boring TB-11

Ground Elevation: 499.11 ft. amsl   Datum: NAVD 88
Date Started: 2/14/2018   Date Ended: 2/14/2018
Borehole Depth: 18.0'   Borehole Diameter: 2 1/4"
Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): 488.69 ft. amsl (8/4/2021)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
							1.3		
17	NA	S-5	16-18					Tan/Brown, SILT, some Sand, wet	
							1.1	Brown, coarse SAND, wet	
18								Test Boring Complete @ 18.0'	
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-11

Test Boring TB-12

Project #: 5285S-16
Project Address: 962, 966, 972-974 E. Main St.
Rochester, NY
DAY Representative: H. McLennan
Drilling Contractor: Zebra Technical
Sampling Method: Direct Push

Ground Elevation: 506.38 ft. amsl   Datum: NAVD 88
Date Started: 2/16/2018   Date Ended: 2/16/2018
Borehole Depth: 25.0'   Borehole Diameter: 2 1/4"
Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): 490.97 ft. amsl (8/4/2021)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
								Asphalt pavement	Installed MW-D
1							0.3	Brown, Sand and Gravel, damp (FILL)	
2	NA	S-1	0-5	50	NA	0.5	0.3	...Red Brick	
3							0.1	Dark Brown, Sand and Gravel, damp (FILL)	
4							0.1	Light Brown, coarse Sand and Gravel, damp (FILL)	
5									
6							1.2	...Broken Rock	
7	NA	S-2	5-10	50	NA	1.2	5.4	Tan/Gray, SILT, little Gravel, little Sand, moist	
8							1.1	Brown, Silty SAND, trace Gravel, moist	
9							0.3		
10									
11							0.1	Brown, Silty SAND, trace Gravel, wet	
12	NA	S-3	10-15	60	NA	1.0	0.1		
13							0.1		
14							0.1		
15							0.1		
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-12

Project #: 5285S-16
Project Address: 962, 966, 972-974 E. Main St.
Rochester, NY
DAY Representative: H. McLennan
Drilling Contractor: Zebra Technical
Sampling Method: Direct Push

Test Boring TB-12

Ground Elevation: 506.38 ft. amsl   Datum: NAVD 88
Date Started: 2/16/2018   Date Ended: 2/16/2018
Borehole Depth: 25.0'   Borehole Diameter: 2 1/4"
Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): 490.97 ft. amsl (8/4/2021)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
17							0.2	…weathered Rock fragments	
18	NA	S-4	15-20	80	NA	2.1	0.2	Brown, coarse SAND and GRAVEL, wet	
19							0.1		
20									
21							0.1	Brown, GRAVEL, some coarse Sand, wet	
22	NA	S-5	20-25	40	NA	1.1	0.1	...lens of Sandy Silt	
23							0.2		
24							0.1		
25								Test Boring Complete @ 25.0'	
26									
27									
28									
29									
30									
31									
32									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-12

day

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 5285S-16
Project Address: 962, 966, 972-974 E. Main St.
Rochester, NY
DAY Representative: H. McLennan
Drilling Contractor: Zebra Technical
Sampling Method: Direct Push

Test Boring TB-13

Ground Elevation: 508.11 ft. amsl   Datum: NAVD 88
Date Started: 2/16/2018   Date Ended: 2/16/2018
Borehole Depth: 25.0'   Borehole Diameter: 2 1/4"
Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): 490.85 ft. amsl (8/4/2021)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
								Topsoil with Grass	**Installed MW-E**
1							0.1	Gravel (FILL)	
								Dark Brown/Black, Sand and Gravel, trace Silt, trace Coal, moist (FILL)	
2	NA	S-1	0-5	40	NA	1.9	0.1		
3							0.2		
4							0.2	Dark Brown, Silty Clay (FILL)	
5									
6							0.1	Brown, Broken Rock, some medium Sand, moist (FILL)	
7	NA	S-2	5-10	20	NA	1.0			
8									
9							0.1	Brown, Silty CLAY, little Gravel, little Sand, moist	
10									
11							0.1		
12	NA	S-3	10-15	50	NA	2.2	0.1		
13							0.2		
14							0.1		
15									
16	NA	S-4	15-20	50	NA		0.2		

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-13

day

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Test Boring TB-13

Project #: 5285S-16
Project Address: 962, 966, 972-974 E. Main St. Rochester, NY
DAY Representative: H. McLennan
Drilling Contractor: Zebra Technical
Sampling Method: Direct Push

Ground Elevation: 508.11 ft. amsl Datum: NAVD 88
Date Started: 2/16/2018 Date Ended: 2/16/2018
Borehole Depth: 25.0' Borehole Diameter: 2 1/4"
Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): 490.85 ft. amsl (8/4/2021)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
17							0.2		
18						3.0	0.2	…little weathered Rock fragments	
19							0.3	...wet	
20									
21							2.3	…some weathered Rock fragments	
22	NA	S-5	20-25	45	NA	289			
23							30.2		**Petroleum-type odor noted (~ 22-23 ft. bgs)**
24							146.7	...Gray Gray/Brown, Silty CLAY, trace Sand, wet	
25								Test Boring Complete @ 25.0'	
26									
27									
28									
29									
30									
31									
32									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-13

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825

420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

www.dayenvironmental.com

day

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Test Boring TB-14

Project #: 5285S-16
Project Address: 962, 966, 972-974 E. Main St.
Rochester, NY
DAY Representative: H. McLennan
Drilling Contractor: Zebra Technical
Sampling Method: Direct Push

Date Started: 2/16/2018
Date Ended: 2/16/2018
Borehole Depth: 15.0'
Borehole Diameter: 2 1/4"
Completion Method: ☐ Well Installed ☐ Backfilled with Grout ■ Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
								Asphalt pavement	
1							0.2	Dark Gray, Sand and Gravel (FILL)	
2	NA	S-1	0-5	50	NA	0.9	0.2	Medium Brown, Silty Sand (FILL)	
3							0.2	...some Ash	
4							0.2		
5									
6							0.2	Brown, SILT, some Sand, moist	
7	NA	S-2	5-10	85	NA	0.7	0.2	...dark Brown, trace Gravel ...little wood fibers	
8							0.2		
9							0.2	Brown, medium Silty SAND, moist	
10							0.2	...little Gravel	
11							0.2	Brown, Silty GRAVEL, some Sand, moist to wet	
12	NA	S-3	10-15	85	NA	1.2	0.2		
13							0.2		
14							0.3		
15								Test Boring Complete @ 15.0'	
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-14

day
DAY ENVIRONMENTAL, INC.
ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

Test Boring TB-15

Project #:	5285S-16
Project Address:	962, 966, 972-974 E. Main St. Rochester, NY
DAY Representative:	H. McLennan
Drilling Contractor:	Zebra Technical
Sampling Method:	Direct Push
Ground Elevation:	499.76 ft. amsl
Datum:	NAVD 88
Date Started:	2/16/2018
Date Ended:	2/16/2018
Borehole Depth:	19.0'
Borehole Diameter:	2 1/4"
Completion Method:	■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date):	490.20 ft. amsl (8/4/2021)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
								Asphalt pavement	**Installed MW-F**
1							0.5	Black/Gray, Sand and Gravel, moist (FILL)	
2	NA	S-1	0-5	65	NA	1.2	0.5	Light Brown-Gray, Gravel and Sand, moist (FILL)	
3							0.6		
4							0.5	Dark Brown, Silty Sand, some Gravel, moist (FILL)	
5									
6							0.5		
7	NA	S-2	5-10	45	NA	0.6	0.4	Light Brown, SAND, moist	
8							0.4		
9							0.5	Medium Brown, SILT, some Sand, trace Gravel, moist	
10									
11							0.3		
12	NA	S-3	10-15	50	NA	0.5	0.4		
13							0.4		
14									
15									
16			15-19	60		1.5	0.3	Brown, coarse SAND and GRAVEL, wet	

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-15

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com
420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

Project #:	5285S-16
Project Address:	962, 966, 972-974 E. Main St. Rochester, NY
DAY Representative:	H. McLennan
Drilling Contractor:	Zebra Technical
Sampling Method:	Direct Push

Test Boring TB-15

Ground Elevation: 499.76 ft. amsl Datum: NAVD 88

Date Started: 2/16/2018 Date Ended: 2/16/2018

Borehole Depth: 19.0' Borehole Diameter: 2 1/4"

Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings

Water Level (Date): 490.20 ft. amsl (8/4/2021)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
								Brown, coarse SAND and GRAVEL, wet	
17							0.2	...Silty CLAY lenses	
18							0.3		
19							0.4		
								Equipment Refusal @ 19.0'	
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-15

day
DAY ENVIRONMENTAL, INC.
ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

Test Boring TB-16

Project #: 5285S-16
Project Address: 962, 966, 972-974 E. Main St. Rochester, NY
DAY Representative: H. McLennan
Drilling Contractor: Zebra Technical
Sampling Method: Direct Push

Ground Elevation: 505.86 ft. amsl   Datum: NAVD 88
Date Started: 2/16/2018   Date Ended: 2/16/2018
Borehole Depth: 23.0'   Borehole Diameter: 2 1/4"
Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): 490.27 ft. amsl (8/4/2021)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
								Asphalt pavement	**Installed MW-G**
1							0.3	Dark Gray, Sand and Gravel, moist (FILL)	
								Brown, Silty Sand and Gravel, moist (FILL)	
2	NA	S-1	0-5	45	NA	0.4	0.4		
3							0.4		
4							0.4	...trace Red Brick, Ash	**Black staining (~3.5-4 ft. bgs)**
5									
								Dark Brown, SILT, some Sand, moist	
6							0.3		
7	NA	S-2	5-10	55	NA	0.6	0.3		
8							0.3		
9							0.2	...Medium Brown, trace Gravel	
10									
								Brown, Silty CLAY, wet	
11							0.2		
12	NA	S-3	10-15	50	NA	0.6	0.2	...trace Gravel	
13								Brown, coarse SAND and GRAVEL, wet	
14							0.2		
15									
16							0.2		

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-16

Project #: 5285S-16
Project Address: 962, 966, 972-974 E. Main St.
Rochester, NY
DAY Representative: H. McLennan
Drilling Contractor: Zebra Technical
Sampling Method: Direct Push

Test Boring TB-16

Ground Elevation: 505.86 ft. amsl   Datum: NAVD 88
Date Started: 2/16/2018   Date Ended: 2/16/2018
Borehole Depth: 23.0'   Borehole Diameter: 2 1/4"
Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): 490.27 ft. amsl (8/4/2021)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
								Brown, silty fine SAND, wet	
17							0.2		
18	NA	S-4	15-20	85	NA	0.8	0.3		
19							0.3		
20									
21							0.2	...some Gravel	
	NA	S-5	20-23	50	NA	1.2			
22							0.3		
23								Equipment Refusal @ 23.0'	
24									
25									
26									
27									
28									
29									
30									
31									
32									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-16

Test Boring TB-17

Project #: 5491R-18
Project Address: 962 E. Main Street
Rochester, NY
DAY Representative: H. McLennan
Drilling Contractor: TREC
Sampling Method: 66 Direct Push

Date Started: 6/18/2018
Date Ended: 6/18/2018
Borehole Depth: 15.8
Borehole Diameter: 2.25"
Completion Method: ☐ Well Installed ■ Backfilled with Grout ☐ Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
							0.0	Asphalt pavement	
1								Black/Gray, Sand and Gravel, damp (FILL)	
							0.0	Dark Brown, Sandy SILT, trace Gravel, moist (FILL)	
2	NA	S-1	0-4	50	NA	0.2			
							0.0	...Medium Brown	
3							0.1	Black, Sand, some Gravel, moist (FILL)	
4									
5							1.5	Medium Brown,Silty SAND, trace Clay, trace Gravel, moist	
6	NA	S-2	4-8	25	NA	0.5			
7							0.1		
8									
9							0.0	Brown, SILT, trace Sand, trace Clay, moist	
10	NA	S-3	8-12	40	NA	0.4	0.0		
11							0.1		
12									
13							1.4	Brown, SAND and GRAVEL, some Silty Clay, wet	
14	NA	S-4	12-15.8	40	NA	0.4	1.1		
15							0.9	...some Sand	
16								Equipment Refusal @ 15.8'	

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-17

day

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Test Boring TB-18

Project #: 5491R-18
Project Address: 962 E. Main Street
Rochester, NY
DAY Representative: H. McLennan
Drilling Contractor: TREC
Sampling Method: 66 Direct Push

Date Started: 6/18/2018 Date Ended: 6/18/2018
Borehole Depth: 3.0' Borehole Diameter: 2.25"
Completion Method: ☐ Well Installed ■ Backfilled with Grout ☐ Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
							0.0	Asphalt pavement	
1	NA	S-1	0-3	30	NA	0.7	0.0	Gray, Sand and Gravel, damp (FILL)	
2							0.0	Dark Gray, Silty Sand with Gravel, moist (FILL)	
3								Equipment Refusal @ 3.0'	
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-18

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825

420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

www.dayenvironmental.com

day

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Test Boring TB-19

Project #:	5491R-18
Project Address:	962 E. Main Street, Rochester, NY
DAY Representative:	H. McLennan
Drilling Contractor:	TREC
Sampling Method:	66 Direct Push
Date Started:	6/18/2018
Date Ended:	6/18/2018
Borehole Depth:	18.2'
Borehole Diameter:	2.25"
Completion Method:	■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
								Asphalt pavement	Temporary MW-H installed for ~1 hour, then grouted
1							0.0	Dark Gray, Silty Sand with Gravel, moist (FILL)	
2	NA	S-1	0-4	25	NA	0.5	0.0		
3							0.0		
4								Reddish-Brown, Silty SAND, trace Gravel, moist	
5							0.0		
6	NA	S-2	4-8	50	NA	0.3	0.0		
7							0.0	...wet	
8							0.0		
9							0.0	Brown, Silty CLAY, moist	
10	NA	S-3	8-12	50	NA	51.7	0.0	Brown, Clayey SILT, some Gravel, some Sand, moist	
11							2.4	...White, Broken Rock	
12							2.8	Brown, coarse SAND, some Gravel, wet	
13							3.1		
14	NA	S-4	12-16	30	NA	1.5	15.9		
15							16.0	Brown, Gravel, wet	
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-19

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825

www.dayenvironmental.com

420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

Project #: 5491R-18
Project Address: 962 E. Main Street
Rochester, NY
DAY Representative: H. McLennan
Drilling Contractor: TREC
Sampling Method: 66 Direct Push

Test Boring TB-19

Date Started: 6/18/2018 Date Ended: 6/18/2018
Borehole Depth: 18.2' Borehole Diameter: 2.25"
Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
							0.3	Brown, weathered Rock fragments, some Gravel, wet	**Temporary MW-H installed for ~1 hour, then grouted**
17	NA	S-5	16-18.2	30	NA	0.8	0.5		
18							0.3	Brown, Gravel, some Silty Clay lenses, wet	
19								Equipment Refusal @ 18.2'	
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-19

day

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Test Boring TB-20

Project #: RSTW.5491R-18
Project Address: 962, 966, 972-974 E. Main St
Rochester
DAY Representative: H. McLennan
Drilling Contractor: Nothnagle
Sampling Method: Direct Push

Ground Elevation: 498.58 ft. amsl
Datum: NAVD 88
Date Started: 2/9/2019
Date Ended: 2/9/2019
Borehole Depth: 17.1'
Borehole Diameter: 6"
Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): 490.31 ft. amsl (8/4/2021)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
								Concrete Slab	**MW-I installed**
1								Dark Brown, Silty Sand, some Gravel (FILL), damp	
							1.0	...trace Ash	
2	NA	S-1	0-4	29	NA	0.0			
							2.0	Brown, Silty Sand, moist (FILL)	
3									
4							2.3		
5								Brown, Silty CLAY, some Sand, moist	
							0.2	…little broken Rock	
6	NA	S-2	4-8	54	NA	0.0	0.0		
7							1.8	Brown, fine SAND, trace Silt, moist to wet	
8									
9							9.5		
10	NA	S-3	8-12	27	NA	0.6	4.5	...Dark Brown, Silty Sand	
11							12.6	Light Brown, fine SAND, trace Gravel, moist to wet	**Rock in macro-core Shoe S-3**
12							57.2	Gray, coarse Silty to Clayey SAND, little weathered Rock fragments, some rounded Gravel, wet	
13							360.0		**Chemical-type odor (~13-14 ft. bgs)**
14	NA	S-4	12-16	56	NA	26.7	33.8	...Brown/Gray, increasing amount of rounded Gravel, some weathered Rock fragments	
15							31.7		
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-20

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

Test Boring TB-20

Project #: RSTW.5491R-18
Project Address: 962, 966, 972-974 E. Main St, Rochester
DAY Representative: H. McLennan
Drilling Contractor: Nothnagle
Sampling Method: Direct Push

Ground Elevation: 498.58 ft. amsl
Datum: NAVD 88
Date Started: 2/9/2019
Date Ended: 2/9/2019
Borehole Depth: 17.1'
Borehole Diameter: 6"
Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): 490.31 ft. amsl (8/4/2021)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
							55.3	Gray/Brown, some weathered Rock fragments, some rounded Gravel, little Silt, little Clay, wet	
	NA	S-5	16-17.1	77	NA	3.7	19.3		
17								Equipment Refusal @ 17.1 ft. bgs on inferred bedrock	
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-20

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

day

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Test Boring TB-21

Project #:	RSTW.5491R-18	Ground Elevation:	505.51 ft. amsl
Project Address:	962, 966, 972-974 E. Main St Rochester	Datum:	NAVD 88
DAY Representative:	H. McLennan	Date Started:	2/12/2019
Drilling Contractor:	Nothnagle	Date Ended:	2/12/2019
Sampling Method:	Direct Push	Borehole Depth:	23.5'
		Borehole Diameter:	6"
		Completion Method:	■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
		Water Level (Date):	490.92 ft. amsl (8/4/2021)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
							1.5	Asphalt pavement	Installed MW-J
1							2.0	Gray, Sand and Gravel, damp (FILL)	
2	NA	S-1	0-4	42	NA	0.7	2.7		
3							3.6		
4							18.9		
5							12.3		
6	NA	S-2	4-8	42	NA	1.1	11.1		
7							10.2		
8							11.3		
9							58.7	Brown, fine SAND, trace Gravel, moist to wet	
10	NA	S-3	8-12	56	NA	0.7	5.5		
11							4.7	…some Silt	
12							4.3	Gray/Brown, Silty GRAVEL, some Sand, wet	
13							5.7		
14	NA	S-4	12-16	42	NA	0.4	6.0	Brown, Silty to Clayey SAND, some Gravel, wet	
15							5.8		
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-21

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

Test Boring TB-21

Project #: RSTW.5491R-18
Project Address: 962, 966, 972-974 E. Main St, Rochester
DAY Representative: H. McLennan
Drilling Contractor: Nothnagle
Sampling Method: Direct Push

Ground Elevation: 505.51 ft. amsl
Datum: NAVD 88
Date Started: 2/12/2019
Date Ended: 2/12/2019
Borehole Depth: 23.5'
Borehole Diameter: 6"
Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): 490.92 ft. amsl (8/4/2021)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
							4.2	Gray,Silty GRAVEL, some Sand, wet	
17							4.5		
18	NA	S-5	16-20	48	NA	12.6	4.9		
19							15.7	...Reddish/Brown	
20								...Brown	
							17.9	Brown, coarse SAND and GRAVEL, trace Silt, trace Clay, wet	
21							23.7		
22	NA	S-6	20-23.5	49	NA	1.1	12.4		
23									
24								Equipment refusal @ 23.5 ft. bgs on inferred bedrock	
25									
26									
27									
28									
29									
30									
31									
32									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-21

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

Project #:	RSTW.5491R-18		
Project Address:	962, 966, 972-974 E. Main St		
	Rochester	Ground Elevation: 498.88 ft. amsl	Datum: NAVD 88
DAY Representative:	H. McLennan	Date Started: 2/13/2019	Date Ended: 2/13/2019
Drilling Contractor:	Nothnagle	Borehole Depth: 18.0'	Borehole Diameter: 2 1/4"
Sampling Method:	Direct Push	Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings	
		Water Level (Date): 489.59 ft. amsl (8/4/2021)	

Test Boring TB-22

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
								Concrete Slab	**Installed MW-K**
1							1.1	Light Brown, SILT, damp (FILL)	
2	NA	S-1	0-4	50	NA	4.8			
3							2.0	Dark Brown, SILT, some Gravel, damp (FILL)	
4							3.6	...moist	
5							1.7	Light Brown, SILT, moist (FILL)	
6	NA	S-2	4-8	80	NA	6.9	1.5	...some Clay, some Gravel, moist (FILL)	
7							1.5	Brown, Silt, some Sand, some Gravel, moist (FILL)	
8								Reddish/Brown, CLAY, some Gravel, moist	
9							4.7		
10	NA	S-3	8-12	54	NA	8.9			
11							69.3	Light Brown, SILT, some Sand, some Gravel, moist	
12							76.4	...wet	
13									
14	NA	S-4	12-16	40	NA	50.8		…gravel seam	
15							16.7	Light Brown, Silty SAND, some Gravel, wet	
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-22

day

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #:	RSTW.5491R-18		
Project Address:	962, 966, 972-974 E. Main St		
	Rochester	Ground Elevation: 498.88 ft. amsl	Datum: NAVD 88
DAY Representative:	H. McLennan	Date Started: 2/13/2019	Date Ended: 2/13/2019
Drilling Contractor:	Nothnagle	Borehole Depth: 18.0'	Borehole Diameter: 2 1/4"
Sampling Method:	Direct Push	Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings	
		Water Level (Date): 489.59 ft. amsl (8/4/2021)	

Test Boring TB-22

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
							12.6	Brown, SILT and GRAVEL, wet	
17	NA	S-5	16-18	85	NA	58.7	33.0		
							11.5		
							6.9		
18								Equipment refusal @ 18.0 ft. bgs on inferred bedrock	
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-22

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

day

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Test Boring TB-23

Project #:	RSTW.5491R-18	Ground Elevation: 498.77 ft. amsl	Datum: NAVD 88
Project Address:	962, 966, 972-974 E. Main St, Rochester	Date Started: 2/8/2019	Date Ended: 2/8/2019
DAY Representative:	H. McLennan	Borehole Depth: 18.0'	Borehole Diameter: 2 1/4"
Drilling Contractor:	Nothnagle	Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings	
Sampling Method:	Direct Push	Water Level (Date): 486.30 ft. amsl (8/4/2021)	

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
								Concrete slab	**Installed MW-L**
							0.4	Black, Silty Sand, trace Gravel, damp (FILL)	
1									
2	NA	S-1	0-4	33	NA	0.8		...tan, Ash seam	
3							0.6	...some Coal	
4							2.2	Black, Silty Sand, some Coal fragments, some Ash, damp (FILL)	
5							5.8		
6	NA	S-2	4-8	54	NA	1.4	3.2	Brown, Silty SAND, trace Gravel, damp	
7							4.6	Brown, Clayey to Silty SAND, little Gravel, damp	
8							22		
9							26		
10	NA	S-3	8-12	75	NA	2.6	24	...tan, medium Sand seam	
11							7.2	…some Gravel	
12							5.5	Brown, Silty CLAY, little rounded Gravel, wet	
13							5.4		
14	NA	S-4	12-16	52	NA	6.1	17.8		
15							11.8	…some medium to coarse Gravel, wet	
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-23

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

Project #:	RSTW.5491R-18		
Project Address:	962, 966, 972-974 E. Main St		
	Rochester	Ground Elevation: 498.77 ft. amsl	Datum: NAVD 88
DAY Representative:	H. McLennan	Date Started: 2/8/2019	Date Ended: 2/8/2019
Drilling Contractor:	Nothnagle	Borehole Depth: 18.0'	Borehole Diameter: 2 1/4"
Sampling Method:	Direct Push	Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings	
		Water Level (Date): 486.30 ft. amsl (8/4/2021)	

Test Boring TB-23

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
							20	Brown, coarse Clayey SAND, little Silt, little rounded Gravel, little weathered Rock fragments, wet	
17	NA	S-5	16-18	33	NA	8.7		angular broken rock)	
							16		
18								Equipment refusal @ 18.0 ft. bgs on inferred bedrock	
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-23

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

day

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Test Boring TB-24

Project #:	RSTW.5491R-18
Project Address:	962, 966, 972-974 E. Main St, Rochester
DAY Representative:	H. McLennan
Drilling Contractor:	Nothnagle
Sampling Method:	Direct Push
Ground Elevation:	500.13 ft. amsl
Datum:	NAVD 88
Date Started:	2/14/2019
Date Ended:	2/14/2019
Borehole Depth:	17.5'
Borehole Diameter:	2 1/4"
Completion Method:	■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date):	490.59 ft. amsl (8/4/2021)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
0							0.1	Asphalt pavement	Installed MW-M
1							0.2	Black, Sand and Gravel, little Coal, damp (FILL)	
2	NA	S-1	0-4	23	NA	0.2	0.1		
3							0.4	Brown, Sand, trace Gravel (FILL), moist	
4							0.0		
5							0.0		
6	NA	S-2	4-8	42	NA	0.5	0.0	Brown, Silty to Clayey SAND, some Gravel, moist to wet	
7							0.1		
8							0.0		
9							0.1		
10	NA	S-3	8-12	19	NA	2.2	0.1	…weathered Rock fragment	
11							0.9		
12							2.1	Brown, SILT, some Sand, moist	
13							58.6		
14	NA	S-4	12-16	42	NA	23.2			
15							131.0	Gray, coarse SAND and GRAVEL, wet	
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-24

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Test Boring TB-24

Project #: RSTW.5491R-18
Project Address: 962, 966, 972-974 E. Main St, Rochester
DAY Representative: H. McLennan
Drilling Contractor: Nothnagle
Sampling Method: Direct Push

Ground Elevation: 500.13 ft. amsl
Datum: NAVD 88
Date Started: 2/14/2019
Date Ended: 2/14/2019
Borehole Depth: 17.5'
Borehole Diameter: 2 1/4"
Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): 490.59 ft. amsl (8/4/2021)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
							47.5	Gray, coarse SAND and GRAVEL, trace Clay, trace Silt, wet	
17	NA	S-5	16-17.5	89	NA	140	91.2		
							9.3	…some Sand, little Clay	
18								Equipment refusal @ 17.5 on inferred bedrock	
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-24

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

day
DAY ENVIRONMENTAL, INC.
ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

Test Boring TB-25

Project #:	RSTW.5491R-18
Project Address:	962, 966, 972-974 E. Main St Rochester
DAY Representative:	H. McLennan
Drilling Contractor:	Nothnagle
Sampling Method:	Direct Push

Ground Elevation:	498.54 ft. amsl	Datum:	NAVD 88
Date Started:	2/11/2019	Date Ended:	2/11/2019
Borehole Depth:	17.5'	Borehole Diameter:	2 1/4"

Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings

Water Level (Date): 489.94 ft. amsl (8/4/2021)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
								Concrete slab	**Installed MW-N** 4" smooth metal piece observed 2-3" below floor on south portion of concrete core
1							0.6	Tan, fine Sand, trace Gravel, damp (FILL)	
2	NA	S-1	0-4	38	NA	8.2	0.6	Dark Brown, Silt and Sand, trace Coal, Gravel, (FILL) damp to moist	
3							0.8		
4							0.5	Brown, Silty SAND, some Clay, little Gravel, moist	
5							0.1		
6	NA	S-2	4-8	50	NA	10.8	0.1		
7							0.8		
8							4.8	...Red-Brown, some Gravel, damp	
9							15.4		
10	NA	S-3	8-12	46	NA	679.1	57.0		
11							5128	...wet	
12								Brown, coarse SAND and GRAVEL, wet	
13							437.6		
14	NA	S-4	12-16	19	NA	399.7			
15							126.7	...some Clay	
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-25

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

day
DAY ENVIRONMENTAL, INC.
ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

Test Boring TB-25

Project #:	RSTW.5491R-18
Project Address:	962, 966, 972-974 E. Main St Rochester
DAY Representative:	H. McLennan
Drilling Contractor:	Nothnagle
Sampling Method:	Direct Push

Ground Elevation:	498.54 ft. amsl	Datum:	NAVD 88
Date Started:	2/11/2019	Date Ended:	2/11/2019
Borehole Depth:	17.5'	Borehole Diameter:	2 1/4"

Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings

Water Level (Date): 489.94 ft. amsl (8/4/2021)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
							512.5	Brown/Gray, coarse SAND, some Gravel, some Clay lenses, wet	
17	NA	S-5	16-17.5	42	NA	117.0	250.9		
							50.0	...CLAY lense, little coarse Sand, little Gravel	
18							32.7	Equipment refusal @ 17.5 on inferred bedrock	
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-25

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

day

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Test Boring TB-26

Project #: RSTW.5491R-18
Project Address: 962, 966, 972-974 E. Main St
Rochester
DAY Representative: H. McLennan
Drilling Contractor: Nothnagle
Sampling Method: Direct Push

Date Started: 2/7/2019
Date Ended: 2/7/2019
Borehole Depth: 17.2'
Borehole Diameter: 2 1/4"
Completion Method: ☐ Well Installed ■ Backfilled with Grout ☐ Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
								Concrete slab	
1	NA	S-1	0-4	50	NA	0.9	2.3	Tan/Brown, fine to medium Sand, damp (FILL)	
2							2.5	...1-2" Clayey Silt	
3							1.8		
4								...Dark Brown	
5	NA	S-2	4-8	31	NA	1.1	1.1	Medium Brown, Silty Clay, trace ash, moist (FILL)	
6							1.2	...some Gravel	
7							0.5		
8									
9	NA	S-3	8-12	42	NA	1.8	0.8		
10							1.7		
11							8.3	Gray, Silty to Clayey SAND, some weathered Rock fragments, wet	
12							4.0		
13	NA	S-4	12-16	42	NA	1.9	3.0	Gray, Silty CLAY, some Gravel, wet	
14							1.0		
15							3.1		
16									

Notes:
1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-26

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

Project #:	RSTW.5491R-18
Project Address:	962, 966, 972-974 E. Main St
	Rochester
DAY Representative:	H. McLennan
Drilling Contractor:	Nothnagle
Sampling Method:	Direct Push

Test Boring TB-26

Date Started: 2/7/2019 Date Ended: 2/7/2019
Borehole Depth: 17.2' Borehole Diameter: 2 1/4"
Completion Method: ☐ Well Installed ■ Backfilled with Grout ☐ Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
	NA	S-5	16-17.2	80	NA	4.7	0.8		
							1.9		
17								Equipment refusal @ 17.2 on inferred bedrock	
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-26

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

day
DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

Test Boring TB-27

Project #: RSTW.5491R-18
Project Address: 962, 966, 972-974 E. Main St
Rochester
DAY Representative: H. McLennan
Drilling Contractor: Nothnagle
Sampling Method: Direct Push

Date Started: 2/7/2019 Date Ended: 2/7/2019
Borehole Depth: 17.9' Borehole Diameter: 2 1/4"
Completion Method: ☐ Well Installed ■ Backfilled with Grout ☐ Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
								Concrete slab	
1							0.3	Light Brown, fine Sand, damp (FILL)	
2	NA	S-1	0-4	46	NA	2.4	0.5	Medium Brown, Silty Sand, trace Coal and Ash, damp (FILL)	
3							0.8		
4							0.3	Medium Brown, Silty Sand, moist (FILL)	
5							0.3		
6	NA	S-2	4-8	69	NA	1.1	0.4		
7							0.5	...wet	
8							0.9		
9							0.4	...Broken Rock	
10	NA	S-3	8-12	60	NA	4.9	1.1	Medium Brown, coarse SAND and CLAY, wet	
11							2.6		
12							6.9	Gray/Brown, Silty CLAY, some Gravel, some weathered Rock fragments, wet	**Faint chemical-type odor (12-13 ft. bgs)**
13							21.5	...some fine to medium SAND	
14	NA	S-4	12-16	67	NA	68.1	9.3		
15							36	Gray, fine GRAVEL, some Clay, some Sand, wet	
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-27

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

day

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: RSTW.5491R-18
Project Address: 962, 966, 972-974 E. Main St
Rochester
DAY Representative: H. McLennan
Drilling Contractor: Nothnagle
Sampling Method: Direct Push

Test Boring TB-27

Date Started: 2/7/2019 Date Ended: 2/7/2019
Borehole Depth: 17.9' Borehole Diameter: 2 1/4"
Completion Method: ☐ Well Installed ■ Backfilled with Grout ☐ Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
							6.9		
17	NA	S-5	16-17.9	33	NA	5.6	6.9	...some Clay	
18								Equipment refusal @ 17.9'	
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-27

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

day

ENVIRONMENTAL CONSULTANTS

DAY ENVIRONMENTAL, INC.

AN AFFILIATE OF DAY ENGINEERING, P.C.

Test Boring TB-28

Project #:	RSTW.5491R-18
Project Address:	962, 966, 972-974 E. Main St Rochester
DAY Representative:	H. McLennan
Drilling Contractor:	Nothnagle
Sampling Method:	Direct Push
Date Started:	2/7/2019
Date Ended:	2/7/2019
Borehole Depth:	17.5'
Borehole Diameter:	2 1/4"
Completion Method:	☐ Well Installed ■ Backfilled with Grout ☐ Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
								Concrete slab	
1							40.8	Brown, medium Sand, trace Gravel, damp (FILL)	
2	NA	S-1	0-4	42	NA	3.4	56.2		
3							15.2	…seam of Coal and Ash	
4								Brown, Silty SAND, some Gravel, moist	
5									
6	NA	S-2	4-8	21	NA	3.4			
7							6.1	…little weathered Rock fragments	Sample S-2 refusal on broken rock - macro-core sleeve not full
8									
9							81.5	...Tan/Brown, some Gravel, moist	
10	NA	S-3	8-12	33	NA	41.5	35.2		
11							138.4		
12									Petroleum-type odor (~12-17.5 ft. bgs)
13							6.3	Gray/Brown, Clayey SAND, some Gravel, wet	
14	NA	S-4	12-16		NA	3.1	2.1	…and Gravel	
15							2.1		
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-28

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

day

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Test Boring TB-28

Project #: RSTW.5491R-18
Project Address: 962, 966, 972-974 E. Main St, Rochester
DAY Representative: H. McLennan
Drilling Contractor: Nothnagle
Sampling Method: Direct Push

Date Started: 2/7/2019 Date Ended: 2/7/2019
Borehole Depth: 17.5' Borehole Diameter: 2 1/4"
Completion Method: ☐ Well Installed ■ Backfilled with Grout ☐ Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
							3.9		**Petroleum-type odor (~12-17.5 ft. bgs)**
17	NA	S-5	16-17.5	67	NA	6.3			
							1.2		
18								Equipment refusal @ 17.5'	
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-28

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

day

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Test Boring TB-29

Project #: RSTW.5491R-18
Project Address: 962, 966, 972-974 E. Main St
Rochester, NY
DAY Representative: H. McLennan
Drilling Contractor: TREC
Sampling Method: Direct Push

Date Started: 8/26/2019 Date Ended: 8/26/2019
Borehole Depth: 15.0' Borehole Diameter: 2 1/4"
Completion Method: ☐ Well Installed ■ Backfilled with Grout ☐ Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
								Concrete slab	
1							3.6	Gray, fragments Concrete fragments, little Sand, little Gravel, damp (FILL)	
2	NA	S-1	0-4	40	NA	69.2	2.8	Brown, Sandy Silt with some Clay (FILL), damp	
3							9.5		
4									
5							23.4	...trace Coal, moist	
6	NA	S-2	4-8	30	NA	87.3	115.1		
7							69.9		
8									
9							11.2	Brown/Gray, SILT, some Sand, some Gravel, wewt	
10	NA	S-3	8-12	15	NA	22.3	3.5		
11									
12							1.8	Brown/Gray, Silty coarse SAND, some Gravel, trace Clay, wet	
13	NA	S-4	12-15	70	NA	34.3	6.5		
14							2.2		
							2.8		
15								Equipment refusal @ 15.0'	
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-29

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

day

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Test Boring TB-30

Page 1 of 1

Project #:	RSTW.5491R-18
Project Address:	962, 966, 972-974 E. Main St
	Rochester, NY
DAY Representative:	H. McLennan
Drilling Contractor:	TREC
Sampling Method:	Direct Push

Ground Elevation:	496.42 ft. amsl	Datum:	NAVD 88
Date Started:	8/26/2019	Date Ended:	8/26/2019
Borehole Depth:	14.5'	Borehole Diameter:	2.25

Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings

Water Level (Date): 490.02 ft. amsl (8/4/2021)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
								Concrete slab	MW-O installed
1	NA	S-1	0-4	60	NA	2174	215.6	Brown, Silty Sand (FILL)	
2							376.9	Brown, fine Sand and Silt, damp (FILL)	
3							938.3		
4								...broken red rock	
	NA	S-2	4-8	50	NA	12304	307.7	...clay lense	
5							2820	Medium Brown, SILT with some Sand and Clay	
6							>15,000	...tan, damp	
7							294.4	Brown, Clayey SILT, some Sand, some Gravel, moist	
8	NA	S-3	8-12	50	NA	9090	2792	…little Clay, wet	
9							1596		
10							1006	...tan	
11							449.7	Dark Gray, Silty GRAVEL and Coarse SAND, little Clay, wet	
12	NA	S-4	12-14.5	90	NA	2580	1643		
13							336.1		
							268.8		
14								Equipment refusal @ 14.5'	
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-30

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

day
DAY ENVIRONMENTAL, INC.
ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

Test Boring TB-31

Project #: RSTW.5491R-18
Project Addres 962, 966, 972-974 E. Main St
Rochester, NY
DAY Represer H. McLennan
Drilling Contra TREC
Sampling Meth Direct Push

Ground Elevation: 498.91 | Datum: NAVD 88
Date Started: 7/22/2021 | Date Ended: 7/22/2021
Borehole Depth: 16.7 | Borehole Diameter: 8 inches
Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): 489.98 (8/4/2021)

Depth (ft)	Sample Number	Sample Depth (ft)	% Recovery	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
						Concrete slab	MW-P installed
1					1.2	Tan fine Sand, trace Silt (FILL), damp	
2	S1	0-4	80	4.2	1.8	Black Sand (FILL), some ash and coal, trace broken red brick, damp	
						…brown, little Coal and Ash	
3					2.8		
						Brown, Silty Sand, trace Clay, damp (FILL)	
4					1.8		
						Reddish brown, fine Sand, some broken Rock, trace Silt, moist	
5					2.0	…broken platey rock	
6	S2	4-8	65	2.2	2.5	….trace Clay	
7					0.7	Brown, Silty CLAY, some Gravel, trace Sand, moist	
8					1.4		
						…and Gravel	
9					2.0	Brown SILT, some Gravel, some Sand trace Clay, moist	
10	S3	8-12	65	20.2	2.2		
11					4.0		
12					30.8	…Gray Sand seam	
13					37.2	Tan brown, Silty fine SAND, some Gravel, trace Clay, wet	
14	S4	12-16	58	80.6	94.7		
15					18.9	…Gray brown	
16					85.6	Gray, coarse SAND, some Silt, wet	Chemical type odor (~16-16.7 ft. bgs)
	S5	16-16.7	100	45.4	14.1		
						Equipment refusal at 16.7 ft. bgs	

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-31

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

day

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Test Boring TB-32

Page 1 of 1

Project #:	RSTW.5491R-18	Ground Elevation:	498.84 ft. amsl
Project Address	962, 966, 972-974 E. Main St	Datum:	NAVD 88
	Rochester, NY	Date Started:	7/21/2021
DAY Representative	H. McLennan	Date Ended:	7/21/2021
Drilling Contractor	TREC	Borehole Depth:	17.6
Sampling Method	Direct Push	Borehole Diameter:	8 inches
		Completion Method:	■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
		Water Level (Date):	489.29 ft. amsl (8/4/2021)

Depth (ft)	Sample Number	Sample Depth (ft)	% Recovery	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
						Concrete slab ~6.5"	MW-Q installed
1					0.3	Gray brown, Sand and Gravel, damp (FILL)	
2	S1	0-4	55	2.9	0.3	…some Silt	
3					1.1	Black Silty Sand, trace coal, damp (FILL) …little broken red brick	
4					0.6	…some coal	
5					0.5	Brown, Silty CLAY, trace Gravel, damp (FILL)	
6	S2	4-8	69	1.6	0.4	Red brown, Silt, some Clay, some Gravel, damp (FILL)	
7					0.6	Red brown, Silty Sand, damp (FILL)	
8					0.8	…some Gravel	
						Black, Silty CLAY, some Gravel, some Sand, damp (FILL)	
9					8.8	Red brown, Clayey SILT, little Sand, little Gravel, little weathered Rock fragments	
10	S3	8-12	56	25.4	18.1		
11					12.7		
12					25.2	…moist	
						Brown, Silty SAND, Clay lenses, some Gravel, wet	
13					118.0		
14	S4	12-16	75	205.9	55.7		
15					146.4		
16					89.2		

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-32

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

day

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #:	RSTW.5491R-18		
Project Addres	962, 966, 972-974 E. Main St		
	Rochester, NY	Ground Elevation: 498.84 ft. amsl	Datum: NAVD 88
DAY Represer	H. McLennan	Date Started: 7/21/2021	Date Ended: 7/21/2021
Drilling Contra	TREC	Borehole Depth: 17.6	Borehole Diameter: 8 inches
Sampling Meth	Direct Push	Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings	
		Water Level (Date): 489.29 ft. amsl (8/4/2021)	

Test Boring TB-32

Depth (ft)	Sample Number	Sample Depth (ft)	% Recovery	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
					76.7	Gray, SAND, little Gravel, trace Silt, wet	
17	S5	16-17.6	100	138.3	56.2		Chemical type odor noted 16-17.6 ft. bgs
					6.7	Brown, coarse SAND and GRAVEL, little Silt, little Clay, wet	
18						Equipment refusat at 17.6 ft. bgs on inferred bedrock	
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-32

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

day

ENVIRONMENTAL CONSULTANTS

DAY ENVIRONMENTAL, INC.

AN AFFILIATE OF DAY ENGINEERING, P.C.

Test Boring TB-33

Page 1 of 1

Project #: RSTW.5491R-18
Project Address: 962, 966, 972-974 E. Main St
Rochester, NY
DAY Representative: H. McLennan
Drilling Contractor: TREC
Sampling Method: Direct Push

Ground Elevation: 498.08 ft. amsl | Datum: NAVD 88
Date Started: 7/19/2021 | Date Ended: 7/22/2021
Borehole Depth: 17.2 ft. | Borehole Diameter: 6"
Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): 498.29 ft. amsl (8/4/2021)

Depth (ft)	Sample Number	Sample Depth (ft)	% Recovery	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
						Concrete slab	**MW-R installed**
1					0.0	Tan brown, Sand, trace Silt, damp (FILL)	
2	S1	0-4	76	0.0	0.0	…trace dark brown/black clay	
						…some broken red brick, some ash	
3					0.0		
						…trace coal, ash	
4					0.1	…some clay, moist	
5					0.0	…some gravel, damp	
6	S2	4-8	50	0.0	0.0		
7					0.0		
						…reddish brown	
8					0.0		
9	S3	8-10	71	14.2	0.0	Light brown, Silty-Clay (FILL), damp	
						Gray, SAND with trace Silty, some Gravel, damp	
10					393.3	…wet	
11					33.0	Red brown, Silty to Clayey SAND, some Gravel, wet	
12	S4	10-14	50	67.0	33.4		
						…weathered Rock fragments	
13					25.8		
14					5.1	Tan, weathered Rock fragments, some coarse Sand, wet	
15	S5	14-17.2	100	11.5	7.9		
16							

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-33

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Test Boring TB-33

Page 1 of 1

Project #: RSTW.5491R-18
Project Addres 962, 966, 972-974 E. Main St
Rochester, NY
DAY Represer H. McLennan
Drilling Contra TREC
Sampling Meth Direct Push

Ground Elevation: 498.08 ft. amsl
Datum: NAVD 88
Date Started: 7/19/2021
Date Ended: 7/22/2021
Borehole Depth: 17.2 ft.
Borehole Diameter: 6"
Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date) 498.29 ft. amsl (8/4/2021)

Depth (ft)	Sample Number	Sample Depth (ft)	% Recovery	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
					6.0	Tan, coarse SAND and GRAVEL, wet	
17						Equipment refusat at 17.2 ft. bgs on inferred bedrock	
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-33

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Test Boring TB-34a

Project #: RSTW.5491R-18
Project Addres 962, 966, 972-974 E. Main St
Rochester, NY
DAY Represer H. McLennan
Drilling Contra TREC
Sampling Metl Direct Push

Date Started: 7/26/2021 Date Ended: 7/26/2021
Borehole Depth: 17.3 ft. Borehole Diameter: 8 inches
Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings

Depth (ft)	Sample Number	Sample Depth (ft)	% Recovery	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
						Concrete slab	
1					14.5	Black, Sand and Gravel, trace ash, damp (FILL)	
2	S1	0-4	79	15.7	10.1	Brown, Silty-Sand, trace gravel, damp (FILL)	
3					0.5		
4					0.8	…some Clay	
5					2.0		
6	S2	4-8	75	6.3	2.5		
7					1.9	…little broken red brick	
8					0.9	Dark brown, Silty CLAY, some Sand, trace Gravel, moist	
9	S3	8-9.3	80	1.0	0.5	…weathered Rock fragment, wet	
10						Macrocore refusal at 9'3", auger refusal at 9'4"	
11							
12							
13							
14							
15							
16							

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-34a

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825 www.dayenvironmental.com

Test Boring TB-34

Project #: RSTW.5491R-18
Project Address: 962, 966, 972-974 E. Main St
Rochester, NY
DAY Representative: H. McLennan
Drilling Contractor: TREC
Sampling Method: Direct Push

Ground Elevation: 498.71 ft. amsl
Datum: NAVD 88
Date Started: 7/26/2021
Date Ended: 7/26/2021
Borehole Depth: 17.3 ft.
Borehole Diameter: 8 inches
Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): 488.31 ft. amsl (8/4/2021)

Depth (ft)	Sample Number	Sample Depth (ft)	% Recovery	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
						Concrete slab	MW-S installed
1					16.5	Black, Sand and Gravel, trace ash, trace coal, damp (FILL)	
2	S1	0-4	85	29.7	11.6	Brown, Silty Sand, damp (FILL)	
3					3.0	Tan, fine Sand, damp (FILL) …little broken red brick, trace coal, trace ash	
4					2.0	…brown	
5					1.3	Brown, Silty Sand, trace gravel, damp (FILL)	
6	S2	4-8	75	4.9	1.0		
7					0.7	…trace broken red brick …<1" layer of ash and coal	
8					0.5	Gray, brown, Silty Clay, some Gravel, some Sand, wet (FILL)	
9					0.4	Light brown, Sandy SILT, some Gravel and Clay, moist to wet	
10	S3	8-12	77	1.8	0.4		
11					0.3	…weathered Rock fragment	
12					0.1	Brown, SAND, some Silt and Gravel, wet	
13					0.3		
14	S4	12-16	50	2.0	0.2	Tan, Silty CLAY, trace Gravel, trace Sand, wet	
15					0.2	Brown-red, Silty to Clayey coarse SAND and GRAVEL, wet	
16					0.2		

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-34

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

day

ENVIRONMENTAL CONSULTANTS

DAY ENVIRONMENTAL, INC.

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: RSTW.5491R-18
Project Addres 962, 966, 972-974 E. Main St
Rochester, NY
DAY Represer H. McLennan
Drilling Contra TREC
Sampling Metl Direct Push

Test Boring TB-34

Page 1 of 1

Ground Elevation: 498.71 ft. amsl — Datum: NAVD 88
Date Started: 7/26/2021 — Date Ended: 7/26/2021
Borehole Depth: 17.3 ft. — Borehole Diameter: 8 inches
Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date) 488.31 ft. amsl (8/4/2021)

Depth (ft)	Sample Number	Sample Depth (ft)	% Recovery	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
	S5	16-17.3	100	0.2	0.1 0.4 0.1	Brown, medium SAND, wet …some coarse Gravel Tan-Brown, Silty CLAY, some Gravel, some Sand, wet	
17						Equipment refusat at 17.3 ft. bgs on inferred bedrock	
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB-34

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

day

Test Boring BRMW-1

Project #:	RSTW.5491R-18
Project Address:	962, 966, 972-974 E. Main St Rochester
DAY Representative:	H. McLennan, H. Miller
Drilling Contractor:	Nothnagle
Sampling Method:	Direct Push/HQ Rock Core
Ground Elevation:	507.75 ft. amsl
Datum:	NAVD 88
Date Started:	2/19/2019
Date Ended:	2/20/2019
Borehole Depth:	48.0'
Borehole Diameter:	10"
Completion Method:	■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date):	480.89 ft. amsl (8/4/2021)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
								Asphalt pavement	
1							0.1	Gray/Brown, Sand and Gravel, little Silt, damp (FILL)	
2	NA	S-1	0-4	63	NA	0.0	0.0	...Coal fragments	
								Brown-black, Silty Clay (FILL), moist	
3							0.0	Brown, Clayey Silt (FILL), moist	
								...little coarse Sand	
4							0.0		
							0.0	Brown, Silty Sand, little Clay, little Gravel, moist (FILL)	
5							0.0		
6	NA	S-2	4-8	40	NA	0.1	0.1		
7							0.0		
8							0.0	Brown, Silty CLAY, little Sand and Gravel, moist	
9	NA	S-3	8-10	58	NA	0.0	0.0		
10							0.0		
11							0.0	...some Gravel	
12	NA	S-4	10-14	42	NA	0.0	0.0		
13							0.0		
14							0.0	...red/Brown, some Sand	
15	NA	S-5	14-18	42	NA	0.0	0.0		
16							0.0	...white broken Rock fragments	

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring BRMW-1

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

day

ENVIRONMENTAL CONSULTANTS

DAY ENVIRONMENTAL, INC.

AN AFFILIATE OF DAY ENGINEERING, P.C.

Test Boring BRMW-1

Project #:	RSTW.5491R-18
Project Address:	962, 966, 972-974 E. Main St Rochester
DAY Representative:	H. McLennan
Drilling Contractor:	Nothnagle
Sampling Method:	Direct Push/HQ Rock Core

Ground Elevation:	507.75 ft. amsl	Datum:	NAVD 88
Date Started:	2/19/2019	Date Ended:	2/20/2019
Borehole Depth:	48.0'	Borehole Diameter:	10"

Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings

Water Level (Date): 480.89 ft. amsl (8/4/2021)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Fractures	Sample Description	Notes
							0.0			
17		S5					0.0			
18							0.0			
19	NA	S-6	18-20	67	NA	0.0	0.0		Brown, coarse SAND and GRAVEL, some Silty Clay, wet	
20							11.5		…brown with orange mottling, some weathered Rock fragments	
21							33.7		Brown, GRAVEL, some Sand, some Silty Clay, wet	
22	NA	S-7	20-24	42	NA	39.0	332.2		...Olive Green	
23							106.3		...Black/Gray, broken Rock, some Sand	
24									Gray, SAND and GRAVEL, little Silty Clay, wet	**Petroleum odor, Gray/Black may be staining**
25	NA	S-8	24-25.5	25	NA	25.6	3.9			
26										**Refusal at 25.4 ft. bgs on fractured bedrock**
27									Ream 26.0 to 28.0 ft. bgs with tri-cone bit No samples collected	**Augered to 26 ft. bgs** **2 ft. rock socket installed to 28 ft. bgs** **4" ID steel casing installed 0-28 ft. bgs**
28										
29									Gray, fine grained Doloimte	
30									Generally hotirzontal fractured with few low angle fractures	
31	NA	C-1	28-33	57.5"	72%	NA	NA			
32										

Notes:
1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring BRMW-1

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

Test Boring BRMW-1

Project #:	RSTW.5491R-18
Project Address:	962, 966, 972-974 E. Main St Rochester
DAY Representative:	H. McLennan
Drilling Contractor:	Nothnagle
Sampling Method:	Direct Push/HQ Rock Core

Ground Elevation:	507.75 ft. amsl	Datum:	NAVD 88
Date Started:	2/19/2019	Date Ended:	2/20/2019
Borehole Depth:	48.0'	Borehole Diameter:	10"
Completion Method:	■ Well Installed	☐ Backfilled with Grout	☐ Backfilled with Cuttings
Water Level (Date):	480.89 ft. amsl (8/4/2021)		

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
33								Gray, fine grained dolomite	
34									
35	NA	C-2	33-38	100	87	NA			
36									
37									
38									
39									
40	NA	C-3	38-43	100	93	NA			
41									
42									
43									
44									
45	NA	C-4	43-48	100	100	NA			
46									
47									
48								Rock Core Complete @ 48.0'	

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring BRMW-1

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Test Boring BRMW-2

Project #:	RSTW.5491R-18
Project Address:	962, 966, 972-974 E. Main St Rochester
DAY Representative:	H. McLennan, H. Miller
Drilling Contractor:	Nothnagle
Sampling Method:	Direct Push/HQ Rock Core

Ground Elevation:	499.07 ft. amsl	Datum:	NAVD 88
Date Started:	2/21/2019	Date Ended:	2/22/2019
Borehole Depth:	38.5'	Borehole Diameter:	10"
Completion Method:	■ Well Installed	☐ Backfilled with Grout	☐ Backfilled with Cuttings
Water Level (Date):	483.26 ft. amsl (8/4/2021)		

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
							0.0	Concrete slab	
1								Tan, fine Sand, damp (FILL)	
	NA	S-1	0-4	44	NA	0.9	0.0		
2							0.1	Dark Brown, medium Sand, little fine Gravel, damp (FILL)	
3							0.1	Medium Brown, Silty Sand, trace red Brick, damp (FILL)	
4							0.0	Black, Silt and Sand, damp (FILL) …little Tan Ash	
5							0.0	Red-Brown, Organic type Silt, trace wood fibers, trace cinders, damp (FILL)	
6	NA	S-2	4-8	75	NA	1.4	0.0	Tan/Brown, fine Sand and Silt, trace Clay, damp (FILL)	
7							0.0	Dark Brown, Silt, trace Clay, trace Sand, trace Wood fibers, damp (FILL)	
8							0.1	Dark Brown, Clayey SILT, some Sand, damp	
9	NA	S-3	8-10	67	NA	1.3	0.1		
								Tan/Brown, fine SAND, damp to moist	
10							0.1	Tan/Gray, fine SAND, moist to wet	
11	NA	S-4	10-12.9	61	NA	1.3	0.0	…weathered Rock fragment	
12							0.1	Medium Brown, SILT, some Sand, moist	
13								Direct push refusal @ 12.9'	
14	NA	S-5	12.9-16.6	0	NA	NA	NA	Augered without sampling 12.9-16.6 ft. bgs	
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring BRMW-2

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

day

ENVIRONMENTAL CONSULTANTS

DAY ENVIRONMENTAL, INC.

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #:	RSTW.5491R-18		
Project Address:	962, 966, 972-974 E. Main St		
	Rochester	Ground Elevation: 499.07 ft. amsl	Datum: NAVD 88
DAY Representative:	H. McLennan	Date Started: 2/21/2019	Date Ended: 2/22/2019
Drilling Contractor:	Nothnagle	Borehole Depth: 38.5'	Borehole Diameter: 10"
Sampling Method:	Direct Push/HQ Rock Core	Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings	
		Water Level (Date): 483.26 ft. amsl (8/4/2021)	

Test Boring BRMW-2

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Fractures	Sample Description	Notes
									Auger refusal at 16.6 ft. bgs on apparent bedrock	
17									Ream 16.6-18.6 using tri-cone bit, no samples collected	
18										**4" steel casing installed 0-18.6 ft. bgs**
19									Gray, fine-grained, dolomite	
20									Generally horizontally fractured with few low angle fractures	
21	NA	C-1	18.5-23.5	98	73	NA	NA		...weathered	
22									vuggy (slight)	
23									...weathered	
24									Gray, fine-grained dolomite	
25										
26	NA	C-2	23.5-28.5	97	64	NA	NA			
27										
28										
29										
30	NA	C-3	28.5-33.5	100	95	NA	NA			
31										
32										

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring BRMW-2

Project #:	RSTW.5491R-18
Project Address:	962, 966, 972-974 E. Main St Rochester
DAY Representative:	H. McLennan
Drilling Contractor:	Nothnagle
Sampling Method:	Direct Push/HQ Rock Core

Test Boring BRMW-2

Ground Elevation: 499.07 ft. amsl   Datum: NAVD 88
Date Started: 2/21/2019   Date Ended: 2/22/2019
Borehole Depth: 38.5'   Borehole Diameter: 10"
Completion Method: ■ Well Installed ☐ Backfilled with Grout ◫ Backfilled with Cuttings
Water Level (Date): 483.26 ft. amsl (8/4/2021)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Fractures	Sample Description	Notes
33									mechanical break	
34										
35										
36	NA	C-4	33.5-38.5	96	88	NA	NA			
37										
38										
39									Rock core complete @ 38.5'	
40										
41										
42										
43										
44										
45										
46										
47										
48										

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring BRMW-2

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

Test Boring BRMW-3

Project #: RSTW.5491R-18
Project Address: 962, 966, 972-974 E. Main St
Rochester
DAY Representative: H. McLennan
Drilling Contractor: Nothnagle
Sampling Method: Direct Push/HQ Rock Core

Ground Elevation: 498.42
Datum: NAVD 88
Date Started: 6/13/2019
Date Ended: 6/14/2019
Borehole Depth: 39
Borehole Diameter: 10"/3.875"
Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): 480.91 (8/4/2021)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
								Concrete slab	
1							0.1	Gray-brown, Sand and Gravel, damp (FILL)	
2	NA	S1	0-4	25	NA	2.9	10.2	Brown, Sand, trace Gravel, moist (FILL)	
3							1.0	Dark brown, Silty Sand, trace Gravel (FILL),	
4							8.7	Red brown, Silty SAND and GRAVEL, moist	
5							1.3		
6	NA	S2	4-8	25	NA	5.4	1.5	…some Clay, little Sand	
7							0.0		
8							9.4		
9									
10	NA	S3	8-12	25	NA	37.5	1.6	…wet	
11							8.0		
12							0.2	Gray-brown, Clayey-GRAVEL, some Silt, some Sand, wet	**Faint chemical-type odor 12-13 ft. bgs**
13							0.5		
14	NA	S4	12-16	75	NA	9.5	0.3		
15							0.6		
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring BRMW-3

Project #: RSTW.5491R-18
Project Address: 962, 966, 972-974 E. Main St
Rochester
DAY Representative: H. McLennan
Drilling Contractor: Nothnagle
Sampling Method: Direct Push/HQ Rock Core

Test Boring BRMW-3

Ground Elevation: 498.42 Datum: NAVD 88
Date Started: 6/13/2019 Date Ended: 6/14/2019
Borehole Depth: 39 Borehole Diameter: 10"/3.875"
Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): 480.91 (8/4/2021)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Fractures	Sample Description	Notes
		S5	16-17	90	NA	3.6	0.1 0.0		…Silty SAND and GRAVEL	
17-19									Auger refusal at 17 ft. bgs on bedrock Ream 17.0-19.0 ft. bgs with tricone bit No samples collected	4" ID steel casing installed 0-19 ft. bgs
19-24	-	C1	19-24	97	78.3	NC	NC		Gray dolomite Generally horizontally fractured with few low angle fractures	
24-29	-	C2	24-29	98	51.7	NC	NC			
29-32	-	C3	29-34	100	92.5	NC	NC			

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring BRMW-3

Test Boring BRMW-3

Project #:	RSTW.5491R-18
Project Address:	962, 966, 972-974 E. Main St Rochester
DAY Representative:	H. McLennan
Drilling Contractor:	Nothnagle
Sampling Method:	Direct Push/HQ Rock Core
Ground Elevation:	498.42
Datum:	NAVD 88
Date Started:	6/13/2019
Date Ended:	6/14/2019
Borehole Depth:	39
Borehole Diameter:	10"/3.875"
Completion Method:	■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date):	480.91 (8/4/2021)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Fractures	Sample Description	Notes
33										
34									Apparent fracture zone at 33.7 ft. bgs	
35–39	NA	C4	34-39	100	95.8	NC	NC			
39									Rock core complete @ 39 ft. bgs	
40										
41										
42										
43										
44										
45										
46										
47										
48										

Notes:
1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring BRMW-3

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #:	RSTW.5491R-18
Project Address:	962, 966, 972-974 E. Main St
	Rochester
DAY Representative:	H. McLennan
Drilling Contractor:	Nothnagle
Sampling Method:	Direct Push/HQ Rock Core

Test Boring BRMW-4

Ground Elevation: 498.83 ft. amsl — Datum: NAVD 88

Date Started: 6/10/2019 — Date Ended: 6/12/2019

Borehole Depth: 39 ft. — Borehole Diameter: 10"/3.875"

Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings

Water Level (Date): 486.74 ft. amsl (8/4/2021)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
								Concrete slab	
1							0.1	Gray, Sand and Gravel, damp (FILL)	
2	NA	S1	0-4	50	NA	0.0	0.0	Brown, Silt, trace Sand and Gravel , trace ash, damp (FILL)	
								…little broken red brick	
3							0.0	…dark brown	
								…ash seam	
4							0.0	… orange mottling	
5							0.0	Black, Silt, some coal, damp (FILL)	
6	NA	S2	4-8	95	NA	0.2	0.0		
								Dark brown, Silty CLAY, trace Gravel, moist	
7							0.0		
								Brown, Clayey SILT, little Sand, moist	
8							0.0		
								…little Gravel	
9							0.0		
10	NA	S3	8-12	65	NA	0.8	0.0		
11							0.5	…some Sand, some Gravel, wet	
12							3.0		
								Brown, Silty SAND, some Gravel, wet	
13							0.1		
14	NA	S4	12-16	50	NA	0.8	0.6		
15							0.9	Gray, SILT, some Sand, some Gravel	
16							0.8		

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring BRMW-4

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

Project #: RSTW.5491R-18
Project Address: 962, 966, 972-974 E. Main St
Rochester
DAY Representative: H. McLennan
Drilling Contractor: Nothnagle
Sampling Method: Direct Push/HQ Rock Core

Test Boring BRMW-4

Ground Elevation: 498.83 ft. amsl | Datum: NAVD 88
Date Started: 6/10/2019 | Date Ended: 6/12/2019
Borehole Depth: 39 ft. | Borehole Diameter: 10"/3.875"
Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): 486.74 ft. amsl (8/4/2021)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Fractures	Sample Description	Notes
	NA	S5	16-17	90	NA	0.3	0.2 0.9		Brown, GRAVEL, some Sand, wet	
17 18 19									Direct push refusal at 17 ft. bgs Ream 17.0-19.0 ft. bgs with tri-cone bit No samples collected	4" ID steel casing set at 0 to 19 ft. bgs
20 21 22 23 24	-	C1	19-24	88	51.6	NA	NA		Gray dolomite Generally horizontally fractured with few low angle fractures vugs	
25 26 27 28 29	-	C2	24-29	98	75.8	NA	NA		Gray dolomite, slightly vuggy	
30 31 32	-	C3	29-34	100	96.7	NA	NA			

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring BRMW-4

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Test Boring BRMW-4

Project #: RSTW.5491R-18
Project Address: 962, 966, 972-974 E. Main St
Rochester
DAY Representative: H. McLennan
Drilling Contractor: Nothnagle
Sampling Method: Direct Push/HQ Rock Core

Ground Elevation: 498.83 ft. amsl
Datum: NAVD 88
Date Started: 6/10/2019
Date Ended: 6/12/2019
Borehole Depth: 39 ft.
Borehole Diameter: 10"/3.875"
Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): 486.74 ft. amsl (8/4/2021)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Fractures	Sample Description	Notes
33										
34									Gray dolomite	
35–39	NA	C4	34-39	100	95.6	NC	NC			
39									Rock core complete @ 39 ft. bgs	
40										
41										
42										
43										
44										
45										
46										
47										
48										

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring BRMW-4

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

Test Boring BRMW-5

Project #: RSTW.5491R-18
Project Address: 962, 966, 972-974 E. Main St
Rochester
DAY Representative: H. McLennan
Drilling Contractor: Nothnagle
Sampling Method: Direct Push/HQ Rock Core

Ground Elevation: 498.96 ft. amsl
Datum: NAVD 88
Date Started: 7/20/2021
Date Ended: 7/21/2021
Borehole Depth: 28.9 ft.
Borehole Diameter: 10"/3.875"
Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): 480.51 ft. amsl (8/4/2021)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
								Concrete slab	
1							4.9	Tan, fine Sand, trace Silt, damp (FILL)	
								Black, Sand, some red brick, coal, ash, damp (FILL)	
2	NA	S1	0-4	78	NA	11.8	2.1	…Brown, increasing coal and ash	
3							0.5	Brown, Silty Sand (FILL), trace Clay, trace rounded Gravel, damp	
4							0.3	…broken Rock	
5							2.8		
6	NA	S2	4-8	67	NA	4.0	0.4		
7							0.5	…moist	
8							0.7	…Gray brown, some angular Gravel	
9							1.1		
10	NA	S3	8-12	85	NA	2.4	1.1	Gray brown, Silty CLAY, some Gravel, trace Sand, moist	
11							0.7		
12							8.3		
13							879.2		
14	NA	S4	12-16	71	NA	369.2	163.5	Brown, Silty SAND, trace Clay, trace Gravel, wet	
15							109.3	Gray-brown, coarse SAND and GRAVEL, wet	**Chemical type odor 15-16 ft. bgs**
16							98.7		

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring BRMW-5

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

day

ENVIRONMENTAL CONSULTANTS

DAY ENVIRONMENTAL, INC.

AN AFFILIATE OF DAY ENGINEERING, P.C.

Test Boring BRMW-5

Project #:	RSTW.5491R-18
Project Address:	962, 966, 972-974 E. Main St
	Rochester
DAY Representative:	H. McLennan
Drilling Contractor:	Nothnagle
Sampling Method:	Direct Push/HQ Rock Core

Ground Elevation:	498.96	Datum:	NAVD 88
Date Started:	7/20/2021	Date Ended:	7/21/2021
Borehole Depth:	28.9	Borehole Diameter:	10"/3.875"

Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings

Water Level (Date): 480.51 (8/4/2021)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Fractures	Sample Description	Notes
	NA	S5	16-16.7	50	NA	21.2	37.9		...some Clay	
17–18									Direct push refusal at 16.7 ft. bgs Ream 16.7-18.5 with tri-cone bit No samples collected	**4" ID steel casing installed 0 to 18.5 ft. bgs**
19–23	-	C1	18.5-23.5	96	71	NA	NA		Gray dolomite Generally horizontally fractured …apparent fracture with coarse Sand, Silt, Clay, wet	
24–28	-	C2	23.5-28.8	80	80	NA	NA		…gray fracture with Sand, Silt, and Clay	
29–32									Rock core complete 28.8 ft bgs	

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring BRMW-5

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

day

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Test Boring VP-3

Project #: RSTW.5491R-18
Project Address: 962, 966, 972-974 E. Main St
Rochester
DAY Representative: H. McLennan
Drilling Contractor: Nothnagle
Sampling Method: Direct Push

Date Started: 2/13/2019
Date Ended: 2/13/2019
Borehole Depth: 8.0'
Borehole Diameter: 2 1/4"
Completion Method: ☐ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings ■ Vapor Probe

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
								Concrete slab	
1							1.1	Light Gray and Brown, Silt, damp (FILL)	
2	NA	S-1	0-4	39	NA	2.0	1.6	Dark Brown, Gravel and Silt, damp (FILL)	
3							0.7	Black, Gravel and Coal fragments, some Ash, damp (FILL)	
4									
5							0.6		
6	NA	S-2	4-8	50	NA	4.3	0.9		
7							1.5	Dark Brown/Black, CLAY with Ash, Coal, and Gravel, dry (FILL)	
8							0.8		
								Test boring complete @ 8.0'	
9									
10									
11									
12									
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring VP-3

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

day

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Test Boring VP-4

Project #:	RSTW.5491R-18
Project Address:	962, 966, 972-974 E. Main St Rochester
DAY Representative:	H. McLennan
Drilling Contractor:	Nothnagle
Sampling Method:	Direct Push
Date Started:	2/11/2019
Date Ended:	2/11/2019
Borehole Depth:	8.0'
Borehole Diameter:	2 1/4"
Completion Method:	☐ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings ■ Vapor Probe

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
							3.7	Concrete slab	
1								Black, Sand and Gravel, trace Silt, trace Coal, damp (FILL)	
							2.5		
2	NA	S-1	0-4	50	NA	10.0			
							4.4	Brown, Sand, some Gravel, damp (FILL)	
3							5.3		
4							3.9	Brown, fine SAND, some Gravel, trace Silt, damp	
5							1.6		
6	NA	S-2	4-8	75	NA	3.5		... some Silt, trace Gravel	
							1.3		
7							1.0	…little Wood fibers	
8								Test boring complete @ 8.0'	
9									
10									
11									
12									
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring VP-4

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: RSTW.5491R-18
Project Address: 962, 966, 972-974 E. Main St
Rochester
DAY Representative: H. McLennan
Drilling Contractor: Nothnagle
Sampling Method: Direct Push

Test Boring VP-5

Date Started: 2/12/2019 Date Ended: 2/12/2019
Borehole Depth: 13.5' Borehole Diameter: 2 1/4"
Completion Method: ☐ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings ■ Vapor Probe

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
							0.0	Brown, trace Vegetation, Silty Sand (Topsoil)	
1							0.0	Dark Brown, Silty Sand, some Gravel, damp (FILL)	
2	NA	S-1	0-4	46	NA	0.0	3.1		
3							1.1		
4							0.8	Gray, Sand and Gravel, damp (FILL)	
5							0.2		
6	NA	S-2	4-8	46	NA	0.6	0.1		
7							0.0		
8							0.0		
9							0.0		
10	NA	S-3	8-12	42	NA	0.4	0.1		
11							0.1	Brown, Silty SAND, some Clay, moist	
12									
13	NA	S-4	12/13.5	89	NA	0.8	0.0		
14								Test boring complete @ 13.5'	
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring VP-5

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

SURFACE SOIL LOGS

day
DAY ENVIRONMENTAL, INC.
ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

Surface Sample SS-1

Project #: RSTW.5491R-18
Project Address: 962, 966, 972-974 E. Main St, Rochester, New York
DAY Representative: H. McLennan/C. Demian
Drilling Contractor: NA
Sampling Method: Post Hole Digger/Shovel

Date Started: 3/27/2019 Date Ended: 3/27/2019
Borehole Depth: 41" Borehole Diameter: 1.5'
Completion Method: ☐ Well Installed ☐ Backfilled with Grout ■ Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
								Black, Sand, some Coal, some Glass, damp (FILL)	
1	NA	S-1	0-2	NA	NA	0.0	0.0		
2							0.0		
							0.0		
3	NA	S-2	2-3	NA	NA	0.0		…some Tan Ash	
							0.0		
4								End of Hole @ 41"	
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									

Notes: 1) Stratification lines represent approximate boundaries. Transitions may be gradual.
2) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
3) NA = Not Available or Not Applicable
4) Headspace PID readings may be influenced by moisture

Surface Sample SS-1

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com
420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

day

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: RSTW.5491R-18
Project Address: 962, 966, 972-974 E. Main St
Rochester, New York
DAY Representative: H. McLennan/C. Demian
Drilling Contractor: NA
Sampling Method: Post Hole Digger/Shovel

Surface Sample SS-2

Date Started: 3/27/2019 Date Ended: 3/27/2019
Borehole Depth: 0.5' Borehole Diameter: 1.1'
Completion Method: ☐ Well Installed ☐ Backfilled with Grout ■ Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1	NA	S-1	0-0.5	NA	NA	0.1	0.0	Black/Brown, Silty Sand and Gravel, intermixed with waste (i.e., plastic wrapper and bags, leaves, aluminum cans) (FILL)	
								Equipment refusal @ 0.5'	
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									

Notes: 1) Stratification lines represent approximate boundaries. Transitions may be gradual.
2) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
3) NA = Not Available or Not Applicable
4) Headspace PID readings may be influenced by moisture

Surface Sample SS-2

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825

420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

www.dayenvironmental.com

day

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Surface Sample SS-3

Project #: RSTW.5491R-18

Project Address: 962, 966, 972-974 E. Main St, Rochester, New York

DAY Representative: H. McLennan/C. Demian

Drilling Contractor: NA

Sampling Method: Post Hole Digger/Shovel

Date Started: 3/27/2019

Date Ended: 3/27/2019

Borehole Depth: 1.1'

Borehole Diameter: 0.8'

Completion Method: ☐ Well Installed ☐ Backfilled with Grout ■ Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
							0.0	Gravel/Stone	
1	NA	S-1	0-1.1	NA	NA	0.0	0.0	Brown, Silty Sand with Gravel, trace Coal and Glass, damp (FILL)	
								End of Hole @ 1'	
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									

Notes: 1) Stratification lines represent approximate boundaries. Transitions may be gradual.
2) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
3) NA = Not Available or Not Applicable
4) Headspace PID readings may be influenced by moisture

Surface Sample SS-3

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825

www.dayenvironmental.com

420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

DAY ENVIRONMENTAL, INC.
ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

Surface Sample SS-4

Project #: RSTW.5491R-18
Project Address: 962, 966, 972-974 E. Main St, Rochester, New York
DAY Representative: H. McLennan/C. Demian
Drilling Contractor: NA
Sampling Method: Post Hole Digger/Shovel

Date Started: 3/27/2019
Date Ended: 3/27/2019
Borehole Depth: 1.1'
Borehole Diameter: 0.8'
Completion Method: ☐ Well Installed ☐ Backfilled with Grout ■ Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
							0.0	Stone 1-2"	
1	NA	S-1	0-1.1	NA	NA	0.0	0.0	Brown, Silty Sand, Gravel, damp (FILL)	
								End of Hole @ 1'	
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									

Notes: 1) Stratification lines represent approximate boundaries. Transitions may be gradual.
2) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
3) NA = Not Available or Not Applicable
4) Headspace PID readings may be influenced by moisture

Surface Sample SS-4

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com
420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

Surface Sample SS-5

Project #: RSTW.5491R-18
Project Address: 962, 966, 972-974 E. Main St
Rochester, New York
DAY Representative: H. McLennan/C. Demian
Drilling Contractor: NA
Sampling Method: Post Hole Digger/Shovel

Date Started: 3/27/2019
Date Ended: 3/27/2019
Borehole Depth: 1.1'
Borehole Diameter: 0.8'
Completion Method: ☐ Well Installed ☐ Backfilled with Grout ■ Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
							0.0	Stone 1"	
1	NA	S-1	0-1.1	NA	NA	0.0	0.0	Black/Gray, Silt and Sand, trace broken Asphalt (FILL)	
								End of Hole @ 1'	
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									

Notes: 1) Stratification lines represent approximate boundaries. Transitions may be gradual.
2) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
3) NA = Not Available or Not Applicable
4) Headspace PID readings may be influenced by moisture

Surface Sample SS-5

day
DAY ENVIRONMENTAL, INC.
ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: RSTW.5491R-18
Project Address: 962, 966, 972-974 E. Main St
Rochester, New York
DAY Representative: H. McLennan/C. Demian
Drilling Contractor: NA
Sampling Method: Post Hole Digger/Shovel

Surface Sample SS-6

Date Started: 3/27/2019 Date Ended: 3/27/2019
Borehole Depth: 1.1' Borehole Diameter: 0.8'
Completion Method: ☐ Well Installed ☐ Backfilled with Grout ■ Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
							0.0	Stone 1-2"	
1	NA	S-1	0-1.1	NA	NA	0.0	0.0	Brown, Silty Sand, trace Gravel, damp (FILL)	
								End of Hole @ 1'	
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									

Notes: 1) Stratification lines represent approximate boundaries. Transitions may be gradual.
2) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
3) NA = Not Available or Not Applicable
4) Headspace PID readings may be influenced by moisture

Surface Sample SS-6

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com
420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

MONITORING WELL INSTALLATION LOGS

day
DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

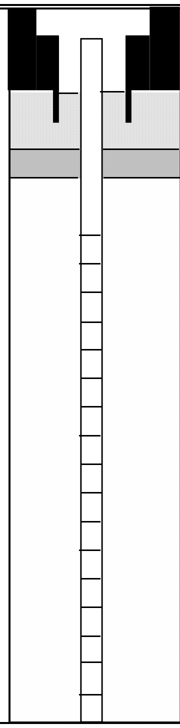
MONITORING WELL CONSTRUCTION DIAGRAM

MONITORING WELL MW-A

Project #: 5285S-16
Project Address: 962, 966, 972-974 E Main St
Rochester, NY
DAY Representative: H. McLennan
Drilling Contractor: Zebra Technical

Ground Elevation: 93.475
Date Started: 2/12/2018
Date Ended: 2/12/2018
Water Level (Date): 84.40 (3/16/2018)

Refer to Test Boring Log TB- 1 for Soil Description



Flush Mounted Roadbox
0.365 Depth to Top of Riser Pipe (ft)

Backfill Type Bentonite

0.5 Depth to Top of Bentonite Seal (ft)
4.0 Depth to Bottom of Bentonite Seal (ft)

6.0 Depth to Top of Well Screen (ft)

2 1/4 Diameter of Borehole (in)

Backfill Type Sand

1.0 Inside Diameter of Well (in)

Type of Pipe PVC
Screen slot size 10 Slot

16.0 Depth to Bottom of Well Screen (ft)

16.0 Depth of Borehole (ft)

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) NA = Not Available or Not Applicable

MONITORING WELL MW- A

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825

www.dayenvironmental.com

420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

day

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

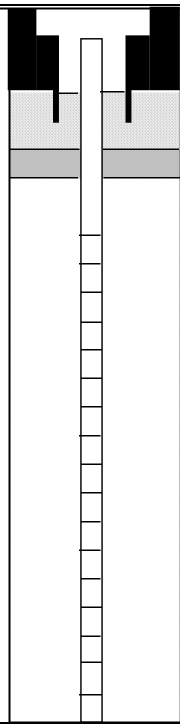
AN AFFILIATE OF DAY ENGINEERING, P.C.

MONITORING WELL CONSTRUCTION DIAGRAM

MONITORING WELL MW-B

Project #:	5285S-16
Project Address:	962, 966, 972-974 E Main St Rochester, NY
DAY Representative:	H. McLennan
Drilling Contractor:	Zebra Technical
Ground Elevation:	93.51
Date Started:	2/12/2018
Date Ended:	2/12/2018
Water Level (Date):	82.36 (3/16/2018)

Refer to Test Boring Log TB- 3 for Soil Description



Flush Mounted Roadbox

0.43 Depth to Top of Riser Pipe (ft)

Backfill Type Bentonite

0.5 Depth to Top of Bentonite Seal (ft)

5.0 Depth to Bottom of Bentonite Seal (ft)

6.0 Depth to Top of Well Screen (ft)

2 1/4 Diameter of Borehole (in)

Backfill Type Sand

1.0 Inside Diameter of Well (in)

Type of Pipe PVC

Screen slot size 10 Slot

16.0 Depth to Bottom of Well Screen (ft)

16.0 Depth of Borehole (ft)

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.

2) NA = Not Available or Not Applicable

MONITORING WELL MW-B

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825

www.dayenvironmental.com

420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

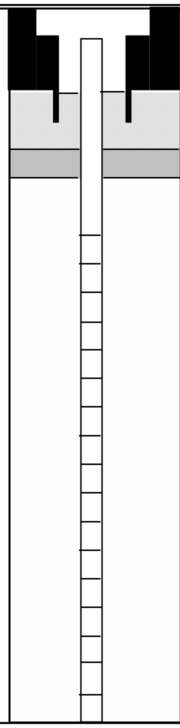
MONITORING WELL CONSTRUCTION DIAGRAM

MONITORING WELL MW-C

Project #: 5285S-16
Project Address: 962, 966, 972-974 E Main St
Rochester, NY
DAY Representative: H. McLennan
Drilling Contractor: Zebra Technical

Ground Elevation: 93.175
Date Started: 2/14/2018
Date Ended: 2/14/2018
Water Level (Date): 82.795 (3/16/2018)

Refer to Test Boring Log TB- 11 for Soil Description



Flush Mounted Roadbox
0.36 Depth to Top of Riser Pipe (ft)

Backfill Type Bentonite

1.0 Depth to Top of Bentonite Seal (ft)
7.0 Depth to Bottom of Bentonite Seal (ft)

8.0 Depth to Top of Well Screen (ft)

2 1/4 Diameter of Borehole (in)

Backfill Type Sand

1.0 Inside Diameter of Well (in)

Type of Pipe PVC
Screen slot size 10 Slot

18.0 Depth to Bottom of Well Screen (ft)

18.0 Depth of Borehole (ft)

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) NA = Not Available or Not Applicable

MONITORING WELL MW-C

day

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

MONITORING WELL CONSTRUCTION DIAGRAM

MONITORING WELL MW-D

Project #: 5285S-16

Project Address: 962, 966, 972-974 E Main St

Rochester, NY

DAY Representative: H. McLennan

Drilling Contractor: Zebra Technical

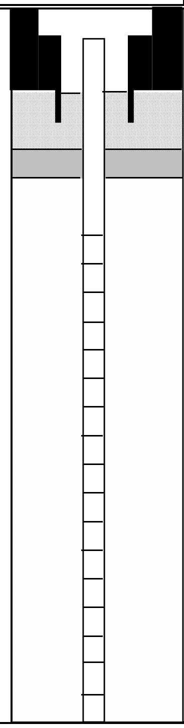
Ground Elevation: 100.74

Date Started: 2/16/2018

Date Ended: 2/16/2018

Water Level (Date): 84.53 (3/16/2018)

Refer to Test Boring Log TB- 12 for Soil Description



Flush Mounted Roadbox

0.135 Depth to Top of Riser Pipe (ft)

Backfill Type Bentonite

0.5 Depth to Top of Bentonite Seal (ft)

14.0 Depth to Bottom of Bentonite Seal (ft)

15.0 Depth to Top of Well Screen (ft)

2 1/4 Diameter of Borehole (in)

Backfill Type Sand

1.0 Inside Diameter of Well (in)

Type of Pipe PVC

Screen slot size 10 Slot

25.0 Depth to Bottom of Well Screen (ft)

25.0 Depth of Borehole (ft)

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.

2) NA = Not Available or Not Applicable

MONITORING WELL MW-D

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825

www.dayenvironmental.com

420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

day

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

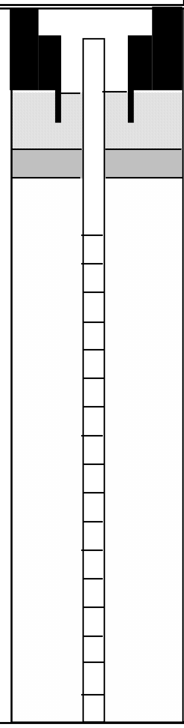
AN AFFILIATE OF DAY ENGINEERING, P.C.

MONITORING WELL CONSTRUCTION DIAGRAM

MONITORING WELL MW-E

Project #:	5285S-16				
Project Address:	962, 966, 972-974 E Main St				
	Rochester, NY	Ground Elevation:	102.23		
DAY Representative:	H. McLennan	Date Started:	2/16/2018	Date Ended:	2/16/2018
Drilling Contractor:	Zebra Technical				
		Water Level (Date):	84.61 (3/16/2018)		

Refer to Test Boring Log TB- 13 for Soil Description



Flush Mounted Roadbox

0.0 Depth to Top of Riser Pipe (ft)

Backfill Type Bentonite

1.0 Depth to Top of Bentonite Seal (ft)

14.0 Depth to Bottom of Bentonite Seal (ft)

15.0 Depth to Top of Well Screen (ft)

2 1/4 Diameter of Borehole (in)

Backfill Type Sand

1.0 Inside Diameter of Well (in)

Type of Pipe PVC

Screen slot size 10 Slot

25.0 Depth to Bottom of Well Screen (ft)

25.0 Depth of Borehole (ft)

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.

2) NA = Not Available or Not Applicable

MONITORING WELL MW-E

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825

www.dayenvironmental.com

420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

day
DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

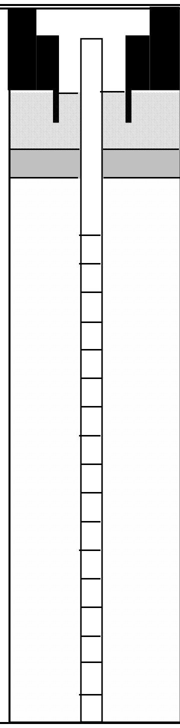
MONITORING WELL CONSTRUCTION DIAGRAM

MONITORING WELL MW-F

Project #: 5285S-16
Project Address: 962, 966, 972-974 E Main St
Rochester, NY
DAY Representative: H. McLennan
Drilling Contractor: Zebra Technical

Ground Elevation: 94.08
Date Started: 2/16/2018
Date Ended: 2/16/2018
Water Level (Date): 84.17 (3/16/2018)

Refer to Test Boring Log TB- 15 for Soil Description



Flush Mounted Roadbox
0.15 Depth to Top of Riser Pipe (ft)

Backfill Type Bentonite

1.0 Depth to Top of Bentonite Seal (ft)
8.0 Depth to Bottom of Bentonite Seal (ft)

9.0 Depth to Top of Well Screen (ft)

2 1/4 Diameter of Borehole (in)

Backfill Type Sand

1.0 Inside Diameter of Well (in)

Type of Pipe PVC
Screen slot size 10 Slot

19.0 Depth to Bottom of Well Screen (ft)

19.0 Depth of Borehole (ft)

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) NA = Not Available or Not Applicable

MONITORING WELL MW-F

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825

www.dayenvironmental.com

420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

day
DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

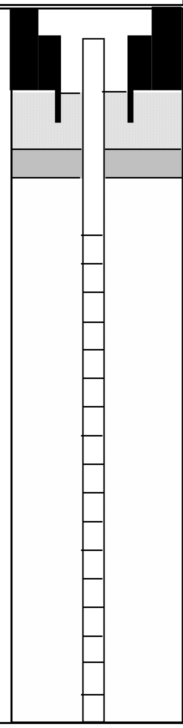
MONITORING WELL CONSTRUCTION DIAGRAM

MONITORING WELL MW-G

Project #: 5285S-16
Project Address: 962, 966, 972-974 E Main St
Rochester, NY
DAY Representative: H. McLennan
Drilling Contractor: Zebra Technical

Ground Elevation: 100.14
Date Started: 2/16/2018
Date Ended: 2/16/2018
Water Level (Date): 84.25 (3/16/2018)

Refer to Test Boring Log TB- 16 for Soil Description



Flush Mounted Roadbox
0.195 Depth to Top of Riser Pipe (ft)

Backfill Type Bentonite

1.0 Depth to Top of Bentonite Seal (ft)
12.0 Depth to Bottom of Bentonite Seal (ft)

13.0 Depth to Top of Well Screen (ft)

2 1/4 Diameter of Borehole (in)

Backfill Type Sand

1.0 Inside Diameter of Well (in)

Type of Pipe PVC
Screen slot size 10 Slot

23.0 Depth to Bottom of Well Screen (ft)

23.0 Depth of Borehole (ft)

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) NA = Not Available or Not Applicable

MONITORING WELL MW-G

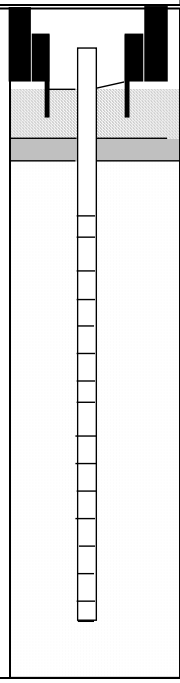
MONITORING WELL CONSTRUCTION DIAGRAM

MONITORING WELL MW-I

Project #: 5491R-18
Project Address: 962,966,972-974 E. Main St
Rochester, NY
DAY Representative: HMM
Drilling Contractor: Nothnagle

Ground Elevation: 498.58 ft. amsl
Datum: NAVD 88
Date Started: 2/9/2019
Date Ended: 2/9/2019
Water Level (Date): 490.31 ft. amsl (8/4/2021)

Refer to Test Boring Log TB-20 for Soil Description



Flush Mounted Roadbox
0.32 Depth to Top of Riser Pipe (ft)
1.0 Depth to Bottom of Cement Surface Patch (ft)
Backfill Type Portland Cement

3.0 Depth to Top of Bentonite Seal (ft)
5.0 Depth to Bottom of Bentonite Seal (ft)

7.1 Depth to Top of Well Screen (ft)

6.0 Diameter of Borehole (in)

Backfill Type Sand

2.0 Inside Diameter of Well (in)

Type of Pipe PVC
Screen slot size 10 slot

17.1 Depth to Bottom of Well Screen (ft)
17.1 Depth to Bottom of Borehole (ft)

Notes:
1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) NA = Not Available or Not Applicable

MONITORING WELL MW-I

day

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

MONITORING WELL CONSTRUCTION DIAGRAM

MONITORING WELL MW-J

Project #: 5491R-18

Project Address: 962,966,972-974 E. Main St, Rochester, NY

DAY Representative: HMM

Drilling Contractor: Nothnagle

Ground Elevation: 505.51 ft. a

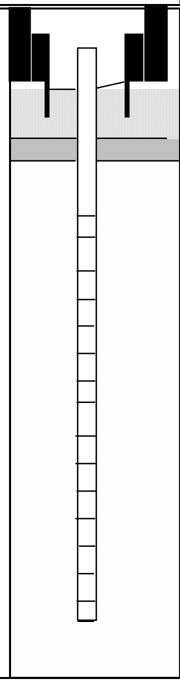
Datum: NAVD 88

Date Started: 2/12/2019

Date Ended: 2/13/2019

Water Level (Date): 490.92 (8/4/2021)

Refer to Test Boring Log TB- 21 for Soil Description



Flush Mounted Roadbox

0.26 Depth to Top of Riser Pipe (ft)

1 Depth to Bottom of Cement Surface Patch (ft)

Backfill Type Portland Cement

7.5 Depth to Top of Bentonite Seal (ft)

9.5 Depth to Bottom of Bentonite Seal (ft)

13.5 Depth to Top of Well Screen (ft)

6.0 Diameter of Borehole (in)

Backfill Type Sand

2.0 Inside Diameter of Well (in)

Type of Pipe PVC

Screen slot size 10 slot

23.5 Depth to Bottom of Well Screen (ft)

23.5 Depth to Bottom of Borehole (ft)

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.

2) NA = Not Available or Not Applicable

MONITORING WELL MW-J

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825

www.dayenvironmental.com

420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

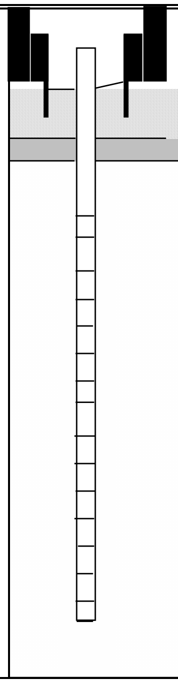
MONITORING WELL CONSTRUCTION DIAGRAM

MONITORING WELL MW-K

Project #: 5491R-18
Project Address: 962,966,972-974 E. Main St
Rochester, NY
DAY Representative: HMM
Drilling Contractor: Nothnagle

Ground Elevation: 498.88 ft. amsl
Datum: NAVD 88
Date Started: 2/13/2019
Date Ended: 2/13/2019
Water Level (Date): 489.59 ft. amsl (8/4/2021)

Refer to Test Boring Log TB-22 for Soil Description



Flush Mounted Roadbox
0.3 Depth to Top of Riser Pipe (ft)
1.0 Depth to Bottom of Cement Surface Patch (ft)
Backfill Type Portland Cement
1.0 Depth to Top of Portland Seal (ft)
4.0 Depth to Bottom of Portland Seal (ft)

Backfill Type Bentonite
4.0 Depth to Top of Bentonite Seal (ft)
6.0 Depth to Bottom of Bentonite Seal (ft)

8.0 Depth to Top of Well Screen (ft)

6.0 Diameter of Borehole (in)

Backfill Type Sand

2.0 Inside Diameter of Well (in)

Type of Pipe PVC
Screen slot size 10 slot

18.0 Depth to Bottom of Well Screen (ft)
18.0 Depth to Bottom of Borehole (ft)

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) NA = Not Available or Not Applicable

MONITORING WELL MW-K

day

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

MONITORING WELL CONSTRUCTION DIAGRAM

MONITORING WELL MW-L

Project #: 5491R-18

Project Address: 962,966,972-974 E. Main St, Rochester, NY

DAY Representative: HMM

Drilling Contractor: Nothnagle

Ground Elevation: 498.77 ft. amsl

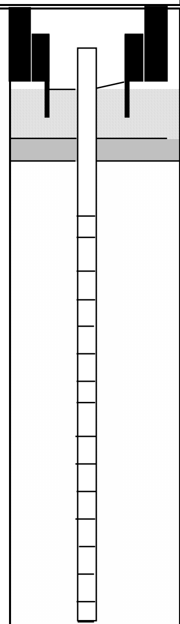
Datum: NAVD 88

Date Started: 2/8/2019

Date Ended: 2/8/2019

Water Level (Date): 486.30 ft. amsl (8/4/2021)

Refer to Test Boring Log TB-23 for Soil Description



Flush Mounted Roadbox

0.3 Depth to Top of Riser Pipe (ft)

1.0 Depth to Bottom of Cement Surface Patch (ft)

Backfill Type Portland Cement

1.0 Depth to Top of Portland Seal (ft)

4.0 Depth to Bottom of Portland Seal (ft)

Backfill Type Bentonite

4.0 Depth to Top of Bentonite Seal (ft)

6.0 Depth to Bottom of Bentonite Seal (ft)

8.0 Depth to Top of Well Screen (ft)

6.0 Diameter of Borehole (in)

Backfill Type Sand

2.0 Inside Diameter of Well (in)

Type of Pipe PVC

Screen slot size 10 slot

18.0 Depth to Bottom of Well Screen (ft)

18.0 Depth to Bottom of Borehole (ft)

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.

2) NA = Not Available or Not Applicable

MONITORING WELL MW-L

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825

www.dayenvironmental.com

420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

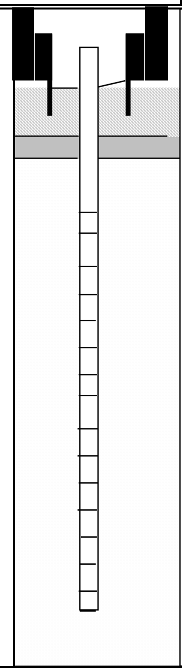
DAY ENVIRONMENTAL, INC.
ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

MONITORING WELL CONSTRUCTION DIAGRAM

MONITORING WELL MW-M

Project #:	5491R-18
Project Address:	962,966,972-974 E. Main St Rochester, NY
DAY Representative:	HMM
Drilling Contractor:	Nothnagle
Ground Elevation:	500.13 ft. amsl
Datum:	NAVD 88
Date Started:	2/14/2019
Date Ended:	2/14/2019
Water Level (Date):	490.59 (8/4/2021)

Refer to Test Boring Log TB-24 for Soil Description



Flush Mounted Roadbox
0.34 Depth to Top of Riser Pipe (ft)
1.0 Depth to Bottom of Cement Surface Patch (ft)
Backfill Type Portland Cement

4.0 Depth to Top of Bentonite Seal (ft)
6.0 Depth to Bottom of Bentonite Seal (ft)

8.0 Depth to Top of Well Screen (ft)

6.0 Diameter of Borehole (in)

Backfill Type Sand

2.0 Inside Diameter of Well (in)

Type of Pipe PVC
Screen slot size 10 slot

18.0 Depth to Bottom of Well Screen (ft)
17.5 Depth to Bottom of Borehole (ft)

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) NA = Not Available or Not Applicable

MONITORING WELL MW-M

DAY ENVIRONMENTAL, INC.

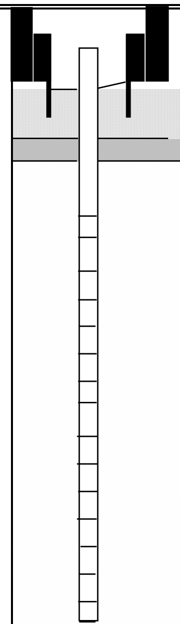
ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

MONITORING WELL CONSTRUCTION DIAGRAM

MONITORING WELL MW-N

Project #:	5491R-18		
Project Address:	962,966,972-974 E. Main St Rochester, NY	Ground Elevation: 498.54 ft. a	Datum: NAVD 88
DAY Representative:	HMM	Date Started: 2/11/2019	Date Ended: 2/11/2019
Drilling Contractor:	Nothnagle		
		Water Level (Date): 489.94 ft. amsl (8/4/2021)	

Refer to Test Boring Log TB- 25 for Soil Description



Flush Mounted Roadbox
0.3 Depth to Top of Riser Pipe (ft)
1.0 Depth to Bottom of Cement Surface Patch (ft)
Backfill Type Portland Cement
1.0 Depth to Top of Portland Seal (ft)
4.0 Depth to Bottom of Portland Seal (ft)

Backfill Type Bentonite
4.0 Depth to Top of Bentonite Seal (ft)
6.0 Depth to Bottom of Bentonite Seal (ft)

8.0 Depth to Top of Well Screen (ft)

6.0 Diameter of Borehole (in)

Backfill Type Sand

2.0 Inside Diameter of Well (in)

Type of Pipe PVC
Screen slot size 10 slot

18.0 Depth to Bottom of Well Screen (ft)
18.0 Depth to Bottom of Borehole (ft)

Notes:
1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) NA = Not Available or Not Applicable
3) Approximately 10 gallons water added to augers

MONITORING WELL MW-N

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825

www.dayenvironmental.com

420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

day

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

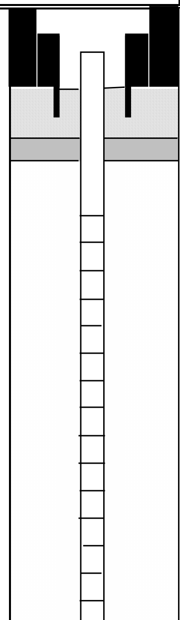
MONITORING WELL CONSTRUCTION DIAGRAM

MONITORING WELL MW-O

Project #: RSTW.5491R-18
Project Address: 962, 966, 972-974 E Main St
Rochester, NY
DAY Representative: HMM
Drilling Contractor: TREC

Ground Elevation: ______ Datum: ______
Date Started: 8/26/2019 Date Ended: 8/26/2019
Water Level (Date): ______

Refer to Test Boring Log TB- 30 for Soil Description



Flush Mounted Roadbox
______ Depth to Top of Riser Pipe (ft)
2.0 Depth to Bottom of Cement Surface Patch (ft)
Backfill Type Bentonite

2.0 Depth to Top of Bentonite Seal (ft)
3.0 Depth to Bottom of Bentonite Seal (ft)

4.5 Depth to Top of Well Screen (ft)

2.25 Diameter of Borehole (in)

Backfill Type Sand

1 Inside Diameter of Well (in)

Type of Pipe PVC
Screen slot size 10 slot

14.5 Depth to Bottom of Well Screen (ft)
14.5 Depth to Bottom of Borehole (ft)

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) NA = Not Available or Not Applicable

MONITORING WELL MW-O

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825

www.dayenvironmental.com

420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

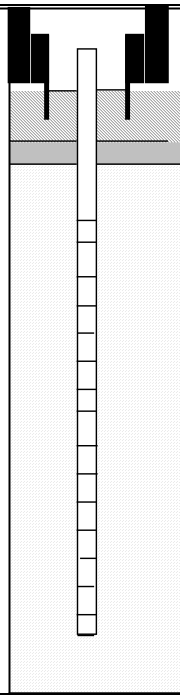
AN AFFILIATE OF DAY ENGINEERING, P.C.

MONITORING WELL CONSTRUCTION DIAGRAM

MONITORING WELL MW-P

Project #:	5491R-18				
Project Address:	962, 966, 972-974 E. Main St				
	Rochester, NY	Ground Elevation:	498.91 ft. a	Datum:	NAVD88
DAY Representative:	CMC/HMM	Date Started:	7/22/2021	Date Ended:	7/22/2021
Drilling Contractor:	Nothnagle				
		Water Level (Date):	489.98 ft. amsl (8/4/2021)		

Refer to Test Boring Log TB-31 for Soil Description



Flush Mounted Roadbox

0.3 Depth to Top of Riser Pipe (ft)

1.0 Depth to Bottom of Cement Surface Patch (ft)

Backfill Type Portland Cement / Bentonite Grout

2.7 Depth to Top of Bentonite Seal (ft)

4.8 Depth to Bottom of Bentonite Seal (ft)

_______ Depth to Top of Well Screen (ft)

8.0 Diameter of Borehole (in)

Backfill Type Sand

2.0 Inside Diameter of Well (in)

Type of Pipe PVC

Screen slot size 10 Slot

16.8 Depth to Bottom of Well Screen (ft)

16.7 Depth to Bottom of Borehole (ft)

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.

2) NA = Not Available or Not Applicable

MONITORING WELL MW-P

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

DAY ENVIRONMENTAL, INC.

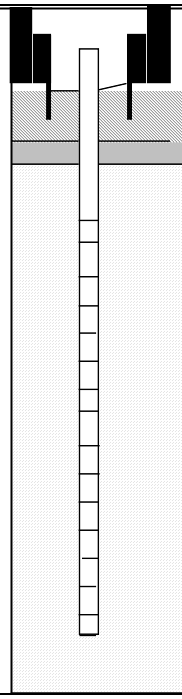
ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

MONITORING WELL CONSTRUCTION DIAGRAM

MONITORING WELL MW-Q

Project #:	5491R-18		
Project Address:	962, 966, 972-974 E. Main St		
	Rochester, NY		
DAY Representative:	CMC/HMM		
Drilling Contractor:	Nothnagle		
Ground Elevation:	498.84 ft. a	Datum:	NAVD 88
Date Started:	7/21/2021	Date Ended:	7/21/2021
Water Level (Date):	489.29 ft. amsl (8/4/2021)		

Refer to Test Boring Log TB-32 for Soil Description



Flush Mounted Roadbox
_______ Depth to Top of Riser Pipe (ft)
1.8 Depth to Bottom of Cement Surface Patch (ft)
Backfill Type Portland Cement / Bentonite Grout

3.5 Depth to Top of Bentonite Seal (ft)
5.5 Depth to Bottom of Bentonite Seal (ft)

7.7 Depth to Top of Well Screen (ft)

8.0 Diameter of Borehole (in)

Backfill Type Sand

2.0 Inside Diameter of Well (in)

Type of Pipe PVC
Screen slot size 10 Slot

17.0 Depth to Bottom of Well Screen (ft)
17.6 Depth to Bottom of Borehole (ft)

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) NA = Not Available or Not Applicable

MONITORING WELL MW-Q

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

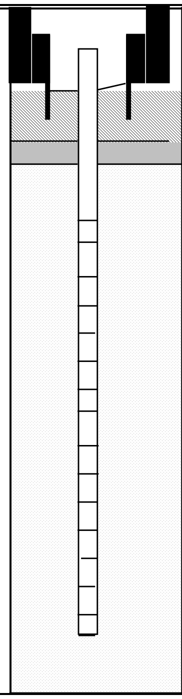
MONITORING WELL CONSTRUCTION DIAGRAM

MONITORING WELL MW-R

Project #: 5491R-18
Project Address: 962, 966, 972-974 E. Main St, Rochester, NY
DAY Representative: CMC/HMM
Drilling Contractor: Nothnagle

Ground Elevation: 498.08 ft. a
Datum: NAVD 88
Date Started: 7/22/2021
Date Ended: 7/22/2021
Water Level (Date): 498.29 ft. amsl (8/4/2021)

Refer to Test Boring Log TB-33 for Soil Description



Flush Mounted Roadbox
0.23 Depth to Top of Riser Pipe (ft)
0.6 Depth to Bottom of Cement Surface Patch (ft)
Backfill Type Portland Cement / Bentonite Grout

2.5 Depth to Top of Bentonite Seal (ft)
4.5 Depth to Bottom of Bentonite Seal (ft)

7.0 Depth to Top of Well Screen (ft)

8.0 Diameter of Borehole (in)

Backfill Type Sand

2.0 Inside Diameter of Well (in)

Type of Pipe PVC
Screen slot size 10 Slot

17.0 Depth to Bottom of Well Screen (ft)
17.2 Depth to Bottom of Borehole (ft)

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) NA = Not Available or Not Applicable

MONITORING WELL MW-R

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

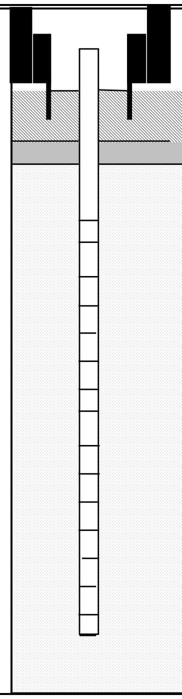
MONITORING WELL CONSTRUCTION DIAGRAM

MONITORING WELL MW-S

Project #:	5491R-18
Project Address:	962, 966, 972-974 E. Main St
	Rochester, NY
DAY Representative:	CMC/HMM
Drilling Contractor:	Nothnagle

Ground Elevation:	498.71 ft. a	Datum:	NAVD 88
Date Started:	7/26/2021	Date Ended:	7/26/2021
Water Level (Date):	488.31 ft. amsl (8/4/2021)		

Refer to Test Boring Log TB-34 for Soil Description



Flush Mounted Roadbox
0.32 Depth to Top of Riser Pipe (ft)
1 Depth to Bottom of Cement Surface Patch (ft)
Backfill Type Portland Cement / Bentonite Grout

3.5 Depth to Top of Bentonite Seal (ft)
5.3 Depth to Bottom of Bentonite Seal (ft)

6.9 Depth to Top of Well Screen (ft)

8.0 Diameter of Borehole (in)

Backfill Type Sand

2.0 Inside Diameter of Well (in)

Type of Pipe PVC
Screen slot size 10 Slot

16.9 Depth to Bottom of Well Screen (ft)
17.3 Depth to Bottom of Borehole (ft)

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) NA = Not Available or Not Applicable

MONITORING WELL MW-S

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

day

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

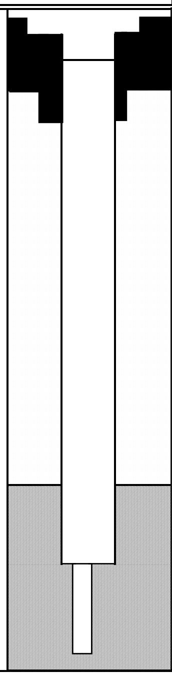
MONITORING WELL CONSTRUCTION DIAGRAM

MONITORING WELL BRMW-1

Project #: 5491R-18
Project Address: 962,966, 972-974 E. Main St.
Rochester, NY
DAY Representative: HMM
Drilling Contractor: Nothnagle

Ground Elevation: 507.75 ft. amsl
Datum: NAVD88
Date Started: 2/19/2019
Date Ended: 2/20/2019
Water Level (Date): 480.98 ft. amsl (3/4/2019)

Refer to Test Boring Log BRMW-1 for Soil Description



Flush Mounted Roadbox

0.4 Depth to Top of Steel Casing (ft)

Backfill Type Sand

10 Diameter of Borehole to Top of Bedrock (in)

4.0 Diameter of Steel Casing (in)

Backfill Type Portland Cement/Bentonite
6.0 Depth to Top of Bentonite Seal (ft)
28.0 Depth to Bottom of Bentonite Seal (ft)

26.0 Depth to top of Bedrock(ft)

5.875 Diameter of Rock Socket (in)

28.0 Depth to Bottom of Rock Socket/Bottom of Steel Casing/Top of Open Core (ft)

3.875 Diameter of Rock Core (in)

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) NA = Not Available or Not Applicable

MONITORING WELL BRMW-1

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825

www.dayenvironmental.com

420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

DAY ENVIRONMENTAL, INC.

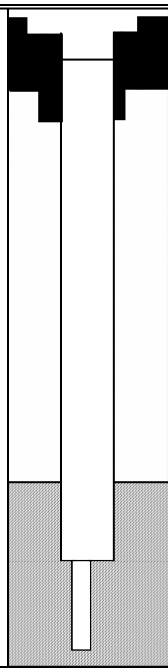
ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

MONITORING WELL CONSTRUCTION DIAGRAM

MONITORING WELL BRMW-2

Project #:	5491R-18		
Project Address:	962,966, 972-974 E. Main St.		
	Rochester, NY	Ground Elevation: 499.07 ft. amsl	Datum: NAVD 88
DAY Representative:	HMM	Date Started: 2/21/2019	Date Ended: 2/22/2019
Drilling Contractor:	Nothnagle		
		Water Level (Date): 483.34 ft. amsl (3/4/2019)	

Refer to Test Boring Log BRMW-2 for Soil Description



Flush Mounted Roadbox

0.4 Depth to Top of Steel Casing (ft)

4.1 Depth to Top of Cement/Bentonite Seal (ft)

Backfill Type Portland Cement/Bentonite

10 Diameter of Borehole to Top of Bedrock (in)

4.0 Diameter of Steel Casing (in)

16.5 Depth to top of Bedrock(ft)

5.875 Diameter of Rock Socket (in)

18.5 Depth to Bottom of Rock Socket/Bottom of Steel Casing/Top of Open Core (ft)

3.875 Diameter of Rock Core (in)

38.6 Depth to Bottom of Open Core (ft)

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) NA = Not Available or Not Applicable

MONITORING WELL BR-2

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825

www.dayenvironmental.com

420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

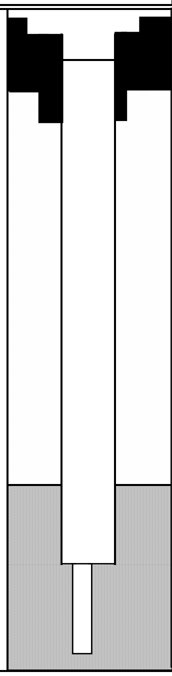
MONITORING WELL CONSTRUCTION DIAGRAM

MONITORING WELL BRMW-3

Project #: 5491R-18
Project Address: 962,966, 972-974 E. Main St.
Rochester, NY
DAY Representative: HMM
Drilling Contractor: Nothnagle

Ground Elevation: 498.42 ft. amsl
Datum: NAVD 88
Date Started: 6/13/2019
Date Ended: 6/14/2019
Water Level (Date): 480.91 ft. amsl (8/4/2021)

Refer to Test Boring Log BRMW-3 for Soil Description



Flush Mounted Roadbox

____ Depth to Top of Steel Casing (ft)

1.0 Depth to Top of Cement/Bentonite Seal (ft)

Backfill Type: Cement/Bentonite Grout

6/10 Diameter of Borehole to Top of Bedrock (in)

4 Diameter of Steel Casing (in)

17.0 Depth to top of Bedrock(ft)

5 7/8 Diameter of Rock Socket (in)

19.0 Depth to Bottom of Rock Socket/Bottom of Steel Casing/Top of Open Core (ft)

3 7/8 Diameter of Rock Core (in)

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) NA = Not Available or Not Applicable

MONITORING WELL BR-3

day

DAY ENVIRONMENTAL, INC.

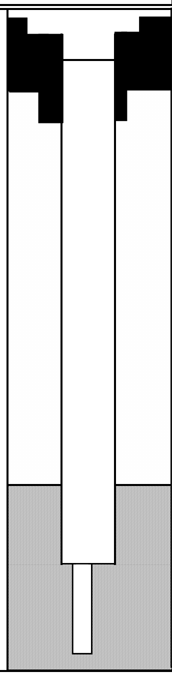
ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

MONITORING WELL CONSTRUCTION DIAGRAM

MONITORING WELL BRMW-4

Project #:	5491R-18		
Project Address:	962,966, 972-974 E. Main St. Rochester, NY		
DAY Representative:	HMM	Ground Elevation: 498.83 ft. amsl	Datum: NAVD 88
Drilling Contractor:	Nothnagle	Date Started: 6/10/2019	Date Ended: 6/12/2019
		Water Level (Date): 486.74 ft. amsl (8/4/2021)	

Refer to Test Boring Log BRMW-4 for Soil Description



← Flush Mounted Roadbox

____ Depth to Top of Steel Casing (ft)

1.0 Depth to Top of Cement/Bentonite Seal (ft)

Backfill Type Cement/Bentonite Grout

6/10 Diameter of Borehole to Top of Bedrock (in)

4 Diameter of Steel Casing (in)

17.0 Depth to top of Bedrock(ft)

5 7/8 Diameter of Rock Socket (in)

19.0 Depth to Bottom of Rock Socket/Bottom of Steel Casing/Top of Open Core (ft)

3 7/8 Diameter of Rock Core (in)

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) NA = Not Available or Not Applicable

MONITORING WELL BRMW-4

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825

www.dayenvironmental.com

420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

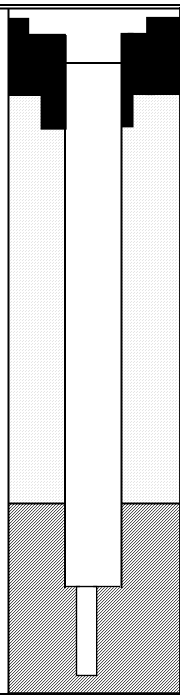
AN AFFILIATE OF DAY ENGINEERING, P.C.

MONITORING WELL CONSTRUCTION DIAGRAM

MONITORING WELL BRMW-5

Project #:	5491R-18		
Project Address:	962, 966, 972-974 E. Main St		
	Rochester, NY	Ground Elevation: 498.96 ft. a	Datum: NAVD 88
DAY Representative:	CMC/HMM	Date Started: 7/20/2021	Date Ended: 7/23/2021
Drilling Contractor:	Nothnagle		
		Water Level (Date): 480.51 ft. amsl (8/4/2021)	

Refer to Test Boring Log BRMW-5 for Soil Description



Flush Mounted Roadbox

0.3 Depth to Top of Steel Casing (ft)

2.0 Depth to Bottom of Cement Surface Patch (ft)

4.0 Depth to Top of Cement/Bentonite Seal (ft)

Backfill Type Cement/Bentonite Grout

8.0 Diameter of Borehole to Top of Bedrock (in)

4.0 Diameter of Steel Casing (in)

16.7 Depth to top of Bedrock (ft)

5 7/8 Diameter of Rock Socket (in)

18.5 Depth to Bottom of Rock Socket/Bottom of Steel Casing/Top of Open Core (ft)

3 7/8 Diameter of Rock Core (in)

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.

2) NA = Not Available or Not Applicable

* Lost ~40 gallons of H2O to this well.

MONITORING WELL BRMW-5

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

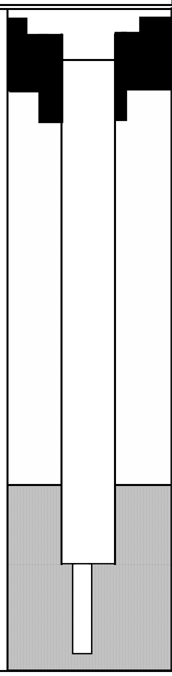
MONITORING WELL CONSTRUCTION DIAGRAM

MONITORING WELL BRMW-1

Project #: 5491R-18
Project Address: 962,966, 972-974 E. Main St.
Rochester, NY
DAY Representative: HMM
Drilling Contractor: Nothnagle

Ground Elevation: 507.75 ft. amsl
Datum: NAVD88
Date Started: 2/19/2019
Date Ended: 2/20/2019
Water Level (Date): 480.98 ft. amsl (3/4/2019)

Refer to Test Boring Log BRMW-1 for Soil Description



Flush Mounted Roadbox

0.4 Depth to Top of Steel Casing (ft)

Backfill Type Sand

10 Diameter of Borehole to Top of Bedrock (in)

4.0 Diameter of Steel Casing (in)

Backfill Type Portland Cement/Bentonite
6.0 Depth to Top of Bentonite Seal (ft)
28.0 Depth to Bottom of Bentonite Seal (ft)

26.0 Depth to top of Bedrock(ft)

5.875 Diameter of Rock Socket (in)

28.0 Depth to Bottom of Rock Socket/Bottom of Steel Casing/Top of Open Core (ft)

3.875 Diameter of Rock Core (in)

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) NA = Not Available or Not Applicable

MONITORING WELL BRMW-1

S:\Fieldforms\Monitoring Well Installation Log (revised October 2006)

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825

www.dayenvironmental.com

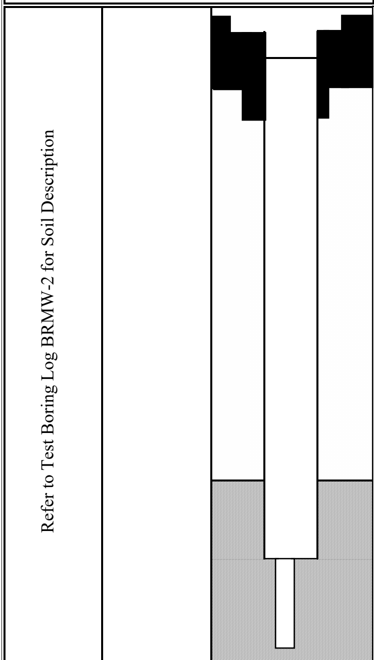
420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

MONITORING WELL CONSTRUCTION DIAGRAM

MONITORING WELL BRMW-2

Project #: 5491R-18
Project Address: 962,966, 972-974 E. Main St.
Rochester, NY
DAY Representative: HMM
Drilling Contractor: Nothnagle

Ground Elevation: 499.07 ft. amsl
Datum: NAVD 88
Date Started: 2/21/2019
Date Ended: 2/22/2019
Water Level (Date): 483.34 ft. amsl (3/4/2019)



Flush Mounted Roadbox

0.4 Depth to Top of Steel Casing (ft)

4.1 Depth to Top of Cement/Bentonite Seal (ft)

Backfill Type Portland Cement/Bentonite

10 Diameter of Borehole to Top of Bedrock (in)

4.0 Diameter of Steel Casing (in)

16.5 Depth to top of Bedrock(ft)

5.875 Diameter of Rock Socket (in)

18.5 Depth to Bottom of Rock Socket/Bottom of Steel Casing/Top of Open Core (ft)

3.875 Diameter of Rock Core (in)

38.6 Depth to Bottom of Open Core (ft)

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) NA = Not Available or Not Applicable

MONITORING WELL BR-2

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

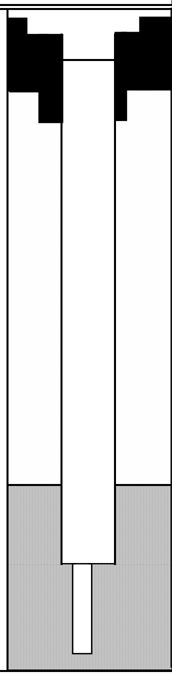
MONITORING WELL CONSTRUCTION DIAGRAM

MONITORING WELL BRMW-3

Project #: 5491R-18
Project Address: 962,966, 972-974 E. Main St.
Rochester, NY
DAY Representative: HMM
Drilling Contractor: Nothnagle

Ground Elevation: 498.42 ft. amsl
Datum: NAVD 88
Date Started: 6/13/2019
Date Ended: 6/14/2019
Water Level (Date): 480.91 ft. amsl (8/4/2021)

Refer to Test Boring Log BRMW-3 for Soil Description



Flush Mounted Roadbox

____ Depth to Top of Steel Casing (ft)

1.0 Depth to Top of Cement/Bentonite Seal (ft)

Backfill Type Cement/Bentonite Grout

6/10 Diameter of Borehole to Top of Bedrock (in)

4 Diameter of Steel Casing (in)

17.0 Depth to top of Bedrock(ft)

5 7/8 Diameter of Rock Socket (in)

19.0 Depth to Bottom of Rock Socket/Bottom of Steel Casing/Top of Open Core (ft)

3 7/8 Diameter of Rock Core (in)

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) NA = Not Available or Not Applicable

MONITORING WELL BR-3

DAY ENVIRONMENTAL, INC.

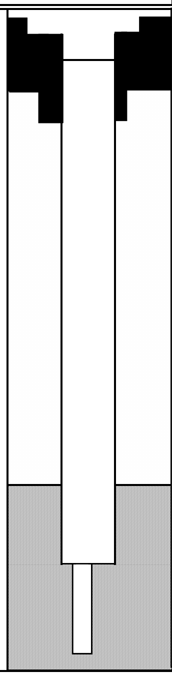
ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

MONITORING WELL CONSTRUCTION DIAGRAM

MONITORING WELL BRMW-4

Project #:	5491R-18		
Project Address:	962,966, 972-974 E. Main St. Rochester, NY	Ground Elevation: 498.83 ft. amsl	Datum: NAVD 88
DAY Representative:	HMM	Date Started: 6/10/2019	Date Ended: 6/12/2019
Drilling Contractor:	Nothnagle		
		Water Level (Date): 486.74 ft. amsl (8/4/2021)	

Refer to Test Boring Log BRMW-4 for Soil Description



Flush Mounted Roadbox

____ Depth to Top of Steel Casing (ft)

1.0 Depth to Top of Cement/Bentonite Seal (ft)

Backfill Type: Cement/Bentonite Grout

6/10 Diameter of Borehole to Top of Bedrock (in)

4 Diameter of Steel Casing (in)

17.0 Depth to top of Bedrock(ft)

5 7/8 Diameter of Rock Socket (in)

19.0 Depth to Bottom of Rock Socket/Bottom of Steel Casing/Top of Open Core (ft)

3 7/8 Diameter of Rock Core (in)

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) NA = Not Available or Not Applicable

MONITORING WELL BRMW-4

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825

www.dayenvironmental.com

420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

VAPOR PROBE INSTALLATION LOGS

day
DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

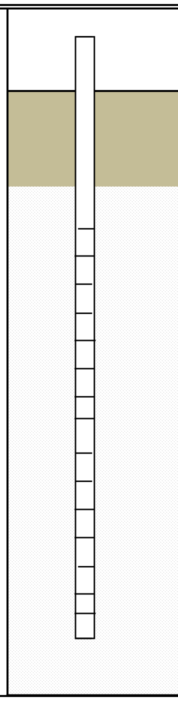
SOIL VAPOR PROBE CONSTRUCTION DIAGRAM

Soil Vapor Probe VP-2

Project #:	RSTW.5491R-18
Project Address:	962, 966, 972-974 E. Main St. Rochester, NY
DAY Representative:	H. McLennan
Drilling Contractor:	Nothnagle

Date Started: 2/8/2019   Date Ended: 2/8/2019

Refer to Test Boring Log TB-23 for Soil Description



3.0 Depth to Top of Bentonite Seal (ft)
7.5 Depth to Bottom of Bentonite Seal (ft)

8.0 Depth to Top of Screen (ft)

2.25 Diameter of Borehole (in)

Backfill Type Sand

3/8 Inside Diameter of probe (in)

Type of screen 6" long double woven stainess steel

8.5 Depth to Bottom of Probe Screen (ft)

8.5 Depth to Bottom of Borehole (ft)

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) NA = Not Available or Not Applicable

Soil Vapor Probe VP-2

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825

www.dayenvironmental.com

420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

day

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

SOIL VAPOR PROBE CONSTRUCTION DIAGRAM

Project #: RSTW.5491R-18

Project Address: 962, 966, 972-974 E. Main St.
Rochester, NY

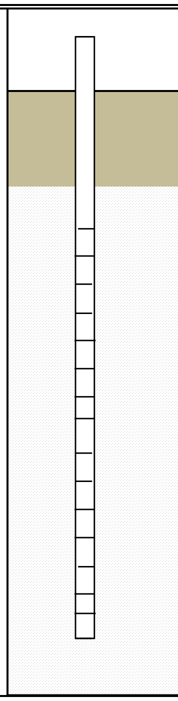
DAY Representative: H. McLennan

Drilling Contractor: Nothnagle

Soil Vapor Probe VP-3

Date Started: 2/13/2019 Date Ended: 2/13/2019

Refer to Test Boring Log BRNW-2 for Soil Description



_______Depth to Top of Bentonite Seal (ft)
_______Depth to Bottom of Bentonite Seal (ft)

7.5 Depth to Top of Screen (ft)

2.25 Diameter of Borehole (in)

Backfill Type Sand

3/8 Inside Diameter of probe (in)

Type of screen 6" long double woven stainess steel

8.0 Depth to Bottom of Probe Screen (ft)

8.0 Depth to Bottom of Borehole (ft)

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) NA = Not Available or Not Applicable

Soil Vapor Probe VP-3

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825

www.dayenvironmental.com

420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

SOIL VAPOR PROBE CONSTRUCTION DIAGRAM

Soil Vapor Probe VP-4

Project #: RSTW.5491R-18

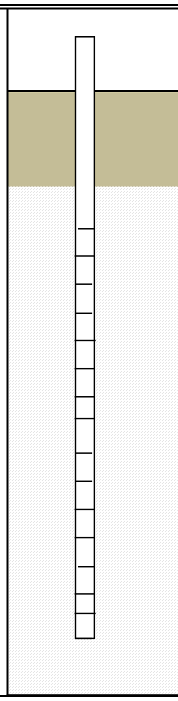
Project Address: 962, 966, 972-974 E. Main St.
Rochester, NY

DAY Representative: H. McLennan

Drilling Contractor: Nothnagle

Date Started: 2/11/2019

Date Ended: 2/11/2019



1.0 Depth to Top of Bentonite Seal (ft)

7.5 Depth to Bottom of Bentonite Seal (ft)

7.5 Depth to Top of Screen (ft)

2.25 Diameter of Borehole (in)

Backfill Type Sand

3/8 Inside Diameter of probe (in)

Type of screen 6" long double woven stainess steel

8.0 Depth to Bottom of Probe Screen (ft)

8.0 Depth to Bottom of Borehole (ft)

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) NA = Not Available or Not Applicable

Soil Vapor Probe VP-4

day
DAY ENVIRONMENTAL, INC.

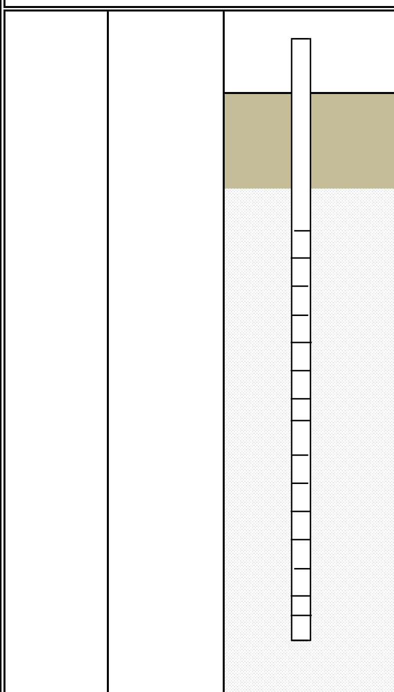
ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

SOIL VAPOR PROBE CONSTRUCTION DIAGRAM

Project #: RSTW.5491R-18
Project Address: 962, 966, 972-974 E. Main St.
Rochester, NY
DAY Representative: H. McLennan
Drilling Contractor: Nothnagle

Soil Vapor Probe VP-5

Date Started: 2/12/2019
Date Ended: 2/12/2019



______ Depth to Top of Bentonite Seal (ft)
12.5 Depth to Bottom of Bentonite Seal (ft)

13.0 Depth to Top of Screen (ft)

2.25 Diameter of Borehole (in)

Backfill Type Sand

3/8 Inside Diameter of probe (in)

Type of screen 6" long double woven stainess steel

13.5 Depth to Bottom of Probe Screen (ft)

13.5 Depth to Bottom of Borehole (ft)

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) NA = Not Available or Not Applicable

Soil Vapor Probe VP-5

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825

www.dayenvironmental.com

420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

APPENDIX C

MONITORING WELL DEVELOPMENT LOGS

WELL DEVELOPMENT DATA
MW-I

SITE LOCATION: 962, 966, 972-974 East Main Street, Rochester, New York JOB#: RSTW.5491R-18

DATE/ TIME	3/6/19 10:30	3/6/19 11:15	3/6/19 11:17	3/6/19 11:20	3/6/19 11:23	3/6/19 11:26	3/6/19 11:28	3/6/19 11:32
EVACUATION METHOD	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump
PID/FID (PPM)	397.5	NM	NM	NM	NM	NM	NM	NM
DEPTH OF WELL (FT)	16.18	NM	NM	NM	NM	NM	NM	NM
STATIC WATER LEVEL (SWL) FT	8.89	NM	NM	NM	NM	NM	NM	NM
VOLUME EVACUATED (GAL)	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
TOTAL VOLUME EVACUATED (GAL)	0	0.5	1.0	1.5	2.0	2.5	3.0	3.5
TEMPERATURE (^{O}C) +/- 10%	18.6	18.2	18.1	18.1	18.1	18.0	18.0	18.1
pH +/- 0.1	7.13	6.98	7.03	7.06	7.09	7.11	7.12	7.13
ORP (mV)	-116.8	-112.1	-115.7	-117.9	-116.7	-120.1	-123.3	
CONDUCTIVITY (µs/cm) +/-3 %	1.372	1.058	1.209	1.339	1.576	1.855	1.980	2.063
TURBIDITY (<50 NTUs)	648.10	4246.01	4488.34	4704.11	4114.94	4273.87	4545.76	4770.80
VISUAL OBSERVATION	Soft bottom	Brown, turbid, petroleum type odor						

LEGEND: NC = Not Collected
ND = Not Detected
NM = Not Measured
*= Not Measurable

Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606

WELL DEVELOPMENT DATA
MW-I

SITE LOCATION: 962, 966, 972-974 East Main Street, Rochester, New York JOB#: RSTW.5491R-18

DATE/ TIME	3/6/19 11:50	3/6/19 11:53	3/6/19 11:56	3/6/19 11:59	3/6/19 12:01	3/6/19 12:04	3/6/19 12:06	3/6/19 12:20
EVACUATION METHOD	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump
PID/FID (PPM)	NM	NM	NM	NM	NM	NM	NM	NM
DEPTH OF WELL (FT)	NM	NM	NM	NM	NM	NM	NM	NM
STATIC WATER LEVEL (SWL) FT	NM	NM	NM	NM	NM	NM	NM	NM
VOLUME EVACUATED (GAL)	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
TOTAL VOLUME EVACUATED (GAL)	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
TEMPERATURE (^{O}C) +/- 10%	18.0	18.1	18.0	18.0	17.8	18.0	17.9	17.9
pH +/- 0.1	7.14	7.10	7.13	7.14	7.17	7.15	7.25	7.24
ORP (mV)	-68.5	-87.3	-95.5	-102.2	-110.3	-112.6	-120.0	-116.4
CONDUCTIVITY (µs/cm) +/-3 %	2.209	2.117	2.277	2.357	2.528	2.456	2.830	2.856
TURBIDITY (<50 NTUs)	3669.54	3402.82	2650.53	2074.56	1883.17	955.70	724.52	4400.88
VISUAL OBSERVATION	Brown, turbid			Light brown, turbid				Petroleum type odor

LEGEND: NC = Not Collected
ND = Not Detected
NM = Not Measured
*= Not Measurable

Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606

WELL DEVELOPMENT DATA
MW-I

SITE LOCATION: 962, 966, 972-974 East Main Street, Rochester, New York JOB#: RSTW.5491R-18

DATE/ TIME	3/6/19 12:24	3/6/19 12:26	3/6/19 12:29	3/6/19 12:32	3/6/19 12:36			
EVACUATION METHOD	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump			
PID/FID (PPM)	397.5	NM	NM	NM	NM			
DEPTH OF WELL (FT)	NM	NM	NM	NM	16.72			
STATIC WATER LEVEL (SWL) FT	NM	NM	NM	NM	9.00			
VOLUME EVACUATED (GAL)	0.5	0.5	0.5	0.5	0.5			
TOTAL VOLUME EVACUATED (GAL)	8.0	8.5	9.0	9.5	10.0			
TEMPERATURE (^{O}C) +/- 10%	17.9	17.9	17.9	17.9	17.9			
pH +/- 0.1	7.21	7.22	7.22	7.20	7.19			
ORP (mV)	-120.6	-122.8	-125.0	-126.9	-127.3			
CONDUCTIVITY (µs/cm) +/-3 %	2.816	2.899	2.961	2.904	2.899			
TURBIDITY (<50 NTUs)	1131.46	651.45	1006.35	322.62	221.19			
VISUAL OBSERVATION					Soft bottom, petroleum type odor			

LEGEND: NC = Not Collected
ND = Not Detected
NM = Not Measured
*= Not Measurable

Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606

WELL DEVELOPMENT DATA
MW-J

SITE LOCATION: 962, 966, 972-974 East Main Street, Rochester, New York JOB#: RSTW.5491R-18

DATE/ TIME	3/4/19 14:35	3/4/19 14:37	3/4/19 14:39	3/4/19 15:05	3/4/19 15:15	3/4/19 15:25	3/4/19 15:33	3/4/19 15:47
EVACUATION METHOD	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump
PID/FID (PPM)	172.0	NM	NM	NM	NM	NM	NM	NM
DEPTH OF WELL (FT)	22.86	NM	NM	NM	NM	NM	NM	NM
STATIC WATER LEVEL (SWL) FT	15.44	NM	21.5	NM	NM	NM	NM	NM
VOLUME EVACUATED (GAL)	0	1.0	1.0	1.0	0.5	0.5	0.5	0.5
TOTAL VOLUME EVACUATED (GAL)	0	1.0	2.0	3.0	3.5	4.0	4.5	5.0
TEMPERATURE (^{O}C) +/- 10%	9.00	11.2	15.7	8.3	8.1	8.5	8.3	8.1
pH +/- 0.1	7.92	8.16	8.38	8.15	8.13	8.10	8.10	8.08
ORP (mV)	150.0	133.0	131.4	119.8	124.6	122.1	121.2	122.6
CONDUCTIVITY (µs/cm) +/-3 %	0.514	0.505	0.559	0.684	0.684	0.686	0.689	0.690
TURBIDITY (<50 NTUs)	1077.80	1921.22	522.55	1066.78	706.70	1090.23	150.89	86.49
VISUAL OBSERVATION	Soft bottom							

LEGEND: NC = Not Collected
ND = Not Detected
NM = Not Measured
*= Not Measurable

Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606

WELL DEVELOPMENT DATA
MW-J

SITE LOCATION: 962, 966, 972-974 East Main Street, Rochester, New York   JOB#: RSTW.5491R-18

DATE/ TIME	3/4/19 15:57	3/4/19 16:07	3/4/19 16:15	3/4/19 16:25	3/4/19 16:34	3/4/19 16:43		
EVACUATION METHOD	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump		
PID/FID (PPM)	NM	NM	NM	NM	NM	NM		
DEPTH OF WELL (FT)	NM	NM	NM	NM	NM	23.52		
STATIC WATER LEVEL (SWL) FT	NM	NM	NM	NM	NM	15.51		
VOLUME EVACUATED (GAL)	0.5	0.5	0.5	0.5	0.5	0.5		
TOTAL VOLUME EVACUATED (GAL)	5.5	6.0	6.5	7.0	7.5	8.0		
TEMPERATURE (^{O}C) +/- 10%	7.7	8.1	8.3	7.8	7.8	7.6		
pH +/- 0.1	8.08	8.01	8.09	8.08	8.08	8.08		
ORP (mV)	122.1	126.9	124.2	123.6	123.6	123.5		
CONDUCTIVITY (µs/cm) +/-3 %	0.690	0.654	0.694	0.692	0.693	0.695		
TURBIDITY (<50 NTUs)	80.13	101.82	52.87	29.29	27.88	29.09		
VISUAL OBSERVATION						Soft bottom		

LEGEND: NC = Not Collected
ND = Not Detected
NM = Not Measured
*= Not Measurable

Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606

WELL DEVELOPMENT DATA
MW-K

SITE LOCATION: 962, 966, 972-974 East Main Street, Rochester, New York JOB#: RSTW.5491R-18

DATE/ TIME	3/6/19 9:45	3/6/19 9:50	3/6/19 9:53	3/6/19 9:56	3/6/19 9:58	3/6/19 10:00	3/6/19 10:02	3/6/19 1010
EVACUATION METHOD	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump
PID/FID (PPM)	231.5	NM	NM	NM	NM	NM	NM	NM
DEPTH OF WELL (FT)	17.72	NM	NM	NM	NM	NM	NM	17.79
STATIC WATER LEVEL (SWL) FT	9.66	NM	NM	NM	NM	NM	NM	17.60
VOLUME EVACUATED (GAL)	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
TOTAL VOLUME EVACUATED (GAL)	0	0.5	1.0	1.5	2.0	2.5	3.0	3.5
TEMPERATURE (^{O}C) +/- 10%	NM	20.9	21.3	21.4	21.3	21.2	20.9	21.0
pH +/- 0.1	NM	7.34	7.24	7.19	7.19	7.18	7.28	7.10
ORP (mV)	NM	103.8	95.0	94.8	94.0	92.6	92.4	83.8
CONDUCTIVITY (µs/cm) +/-3 %	NM	1.134	1.052	1.101	1.179	1.249	1.414	1.250
TURBIDITY (<50 NTUs)	NM	5553.66	4515.12	3445.32	5699.29	4644.70	6444.10	5573.69
VISUAL OBSERVATION	Soft bottom	Brown, turbid						dry

LEGEND: NC = Not Collected
ND = Not Detected
NM = Not Measured
*= Not Measurable

Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606

WELL DEVELOPMENT DATA
MW-K

SITE LOCATION: 962, 966, 972-974 East Main Street, Rochester, New York JOB#: RSTW.5491R-18

DATE/ TIME	3/6/19 1:22	3/6/19 1:25	3/6/19 1:30	3/6/19 1:34	3/6/19 1:37	3/6/19 1:40	3/6/19 1:48	
EVACUATION METHOD	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	
PID/FID (PPM)	NM	NM	NM	NM	NM	NM	NM	
DEPTH OF WELL (FT)	17.79	NM	NM	NM	NM	NM	17.79	
STATIC WATER LEVEL (SWL) FT	10.20	NM	NM	NM	NM	NM	17.73	
VOLUME EVACUATED (GAL)	0.5	0.5	0.5	0.5	0.5	0.25	0.25	
TOTAL VOLUME EVACUATED (GAL)	4.0	4.5	5.0	5.5	6.0	6.25	6.5	
TEMPERATURE (^{O}C) +/- 10%	20.9	21.3	21.3	21.2	20.8	20.7	20.8	
pH +/- 0.1	7.16	7.14	7.15	7.14	7.18	7.22	7.14	
ORP (mV)	68.3	67.4	73.1	77.4	82.6	82.5	82.7	
CONDUCTIVITY (µs/cm) +/-3 %	1.392	1.239	1.201	1.285	1.579	1.738	1.734	
TURBIDITY (<50 NTUs)	68.70	791.20	2483.35	2060.02	3916.65	6998.72	5280.26	
VISUAL OBSERVATION							Dry, hard bottom	

LEGEND: NC = Not Collected
ND = Not Detected
NM = Not Measured
*= Not Measurable

Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606

WELL DEVELOPMENT DATA
MW-L

SITE LOCATION: 962, 966, 972-974 East Main Street, Rochester, New York JOB#: RSTW.5491R-18

DATE/ TIME	3/5/19 9:40	3/5/19 10:08	3/5/19 10:45	3/5/19 11:05	3/5/19 11:20	3/5/19 12:00	3/5/19 12:05	3/5/19
12:20	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump
PID/FID (PPM)	32.0	NM	NM	NM	NM	NM	NM	NM
DEPTH OF WELL (FT)	16.72	NM	NM	NM	NM	NM	NM	NM
STATIC WATER LEVEL (SWL) FT	12.51	NM	NM	15.01	NM	NM	NM	16.20
VOLUME EVACUATED (GAL)	0	0.5	0.5	0.25	0.25	0.5	0.25	0.25
TOTAL VOLUME EVACUATED (GAL)	0	0.5	1.0	1.25	1.5	2.0	2.25	2.5
TEMPERATURE (^{O}C) +/- 10%	NM	18.2	18.3	18.0	17.9	18.0	18.5	18.5
pH +/- 0.1	NM	7.62	7.52	7.73	7.73	7.47	7.86	7.94
ORP (mV)	NM	154.1	163.2	303.0	213.0	222.2	211.9	195.1
CONDUCTIVITY (µs/cm) +/-3 %	NM	4.030	5.446	5.670	5.530	5.830	5.727	5.533
TURBIDITY (<50 NTUs)	NM	407.36	3888.01	3014.36	1170.08	2402.14	2063.31	2610.67
VISUAL OBSERVATION					Dry			Dry

LEGEND: NC = Not Collected
ND = Not Detected
NM = Not Measured
*= Not Measurable

Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606

WELL DEVELOPMENT DATA
MW-L

SITE LOCATION: 962, 966, 972-974 East Main Street, Rochester, New York JOB#: RSTW.5491R-18

DATE/ TIME	3/5/19 12:50	3/5/19 12:55	3/5/19 13:10	3/5/19 14:10	3/5/19 14:15	3/5/19 14:20		
EVACUATION METHOD	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump		
PID/FID (PPM)	NM	NM	NM	NM	NM	NM		
DEPTH OF WELL (FT)	NM	NM	17.29	NM	NM	NM		
STATIC WATER LEVEL (SWL) FT	NM	NM	17.15	NM	NM	17.19		
VOLUME EVACUATED (GAL)	0.25	0.25	0.25	0.25	0.25	0.25		
TOTAL VOLUME EVACUATED (GAL)	2.75	3.0	3.25	3.5	3.75	4.0		
TEMPERATURE (^{O}C) +/- 10%	18.0	18.0	18.8	18.0	18.0	18.0		
pH +/- 0.1	7.56	7.49	7.92	7.41	7.33	7.34		
ORP (mV)	329.1	326.1	235.9	198.1	200.5	201.2		
CONDUCTIVITY (µs/cm) +/-3 %	5.829	5.492	5.512	6.133	6.090	6.077		
TURBIDITY (<50 NTUs)	2220.71	2585.93	1961.84	609.82	751.52	712.23		
VISUAL OBSERVATION			Dry			Dry		

LEGEND: NC = Not Collected
ND = Not Detected
NM = Not Measured
*= Not Measurable

Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606

WELL DEVELOPMENT DATA
MW-M

SITE LOCATION: 962, 966, 972-974 East Main Street, Rochester, New York JOB#: RSTW.5491R-18

DATE/ TIME	3/6/19 3:20	3/6/19 3:28	3/6/19 3:31	3/6/19 3:33	3/6/19 3:35	3/6/19 3:37	3/6/19 3:39	3/6/19 3:42
EVACUATION METHOD	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump
PID/FID (PPM)	438.5	NM	NM	NM	NM	NM	NM	NM
DEPTH OF WELL (FT)	16.05	NM	NM	NM	NM	NM	NM	18.03
STATIC WATER LEVEL (SWL) FT	10.12	NM	NM	NM	NM	NM	NM	17.41
VOLUME EVACUATED (GAL)	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
TOTAL VOLUME EVACUATED (GAL)	0	0.5	1.0	1.5	2.0	2.5	3.0	3.5
TEMPERATURE (^{O}C) +/- 10%	NM	13.6	13.3	13.4	13.6	13.8	14.0	13.7
pH +/- 0.1	NM	7.74	7.71	7.76	7.77	7.81	7.78	7.82
ORP (mV)	NM	105.2	93.2	89.2	87.4	85.8	84.6	86.4
CONDUCTIVITY (µs/cm) +/-3 %	NM	1.680	1.602	1.508	1.561	1.629	1.811	1.996
TURBIDITY (<50 NTUs)	NM	2235.23	6404.93	6670.17	7166.80	6557.40	4253.57	1765.01
VISUAL OBSERVATION	Soft bottom	Brown, turbid	Paint-like odor					Soft bottom, dry

LEGEND: NC = Not Collected
ND = Not Detected
NM = Not Measured
*= Not Measurable

Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606

WELL DEVELOPMENT DATA
MW-M

SITE LOCATION: 962, 966, 972-974 East Main Street, Rochester, New York JOB#: RSTW.5491R-18

DATE/ TIME	3/7/19 11:12	3/7/19 11:14	3/7/19 11:16	3/7/19 11:18	3/7/19 11:20	3/7/19 11:23	3/7/19 11:25	3/7/19 11:27
EVACUATION METHOD	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump
PID/FID (PPM)	997.8	NM	NM	NM	NM	NM	NM	NM
DEPTH OF WELL (FT)	17.99	NM	NM	NM	NM	NM	NM	NM
STATIC WATER LEVEL (SWL) FT	10.24	NM	NM	NM	NM	NM	NM	16.20
VOLUME EVACUATED (GAL)	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
TOTAL VOLUME EVACUATED (GAL)	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
TEMPERATURE (^{O}C) +/- 10%	13.0	13.0	13.0	13.1	13.4	13.6	13.7	13.8
pH +/- 0.1	7.69	7.67	7.67	7.63	7.62	7.63	7.63	7.62
ORP (mV)	55.5	48.9	45.4	42.7	44.4	44.0	43.0	40.7
CONDUCTIVITY (µs/cm) +/-3 %	2.549	2.618	2.500	2.321	2.686	3.211	3.183	3.127
TURBIDITY (<50 NTUs)	309.14	488.32	1982.18	3818.67	1930.57	2771.13	4308.06	6648.02
VISUAL OBSERVATION								Going dry

LEGEND: NC = Not Collected
ND = Not Detected
NM = Not Measured
*= Not Measurable

Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606

WELL DEVELOPMENT DATA
MW-N

SITE LOCATION: 962, 966, 972-974 East Main Street, Rochester, New York JOB#: RSTW.5491R-18

DATE/ TIME	3/7/19 12:04	3/7/19 12:12	3/7/19 12:14	3/7/19 12:27	3/7/19 12:45	3/7/19 13:17	3/7/19 13:28	3/7/19 13:48
EVACUATION METHOD	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump
PID/FID (PPM)	15000+	NM	NM	NM	NM	NM	NM	NM
DEPTH OF WELL (FT)	17.15	NM	NM	NM	NM	NM	NM	NM
STATIC WATER LEVEL (SWL) FT	9.19	NM	NM	NM	16.18	NM	17.50	NM
VOLUME EVACUATED (GAL)	0.5	0.5	0.5	1.0	0.75	1.25	1.00	1.0
TOTAL VOLUME EVACUATED (GAL)	4.0	4.5	5.0	6.0	6.75	8.00	9.00	10.0
TEMPERATURE (^{O}C) +/- 10%	16.8	17.0	17.0	17.2	17.3	17.2	17.4	17.3
pH +/- 0.1	7.39	7.37	7.33	7.42	7.42	7.27	7.38	7.92
ORP (mV)	26.0	8.6	2.0	8.1	8.8	-2.8	6.3	6.8
CONDUCTIVITY (µs/cm) +/-3 %	4.678	4.880	4.960	4.598	4.705	5.254	4.693	5.125
TURBIDITY (<50 NTUs)	5759.04	1922.32	1282.07	6066.44	1954.77	787.50	3307.85	1090.73
VISUAL OBSERVATION	Brown, turbid				Dry		Dry	

LEGEND: NC = Not Collected
ND = Not Detected
NM = Not Measured
*= Not Measurable

Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606

WELL DEVELOPMENT DATA
MW-N

SITE LOCATION: 962, 966, 972-974 East Main Street, Rochester, New York JOB#: RSTW.5491R-18

DATE/ TIME	3/619 4:00	3/6/19 4:06	3/6/19 4:08	3/6/19 4:30	3/6/19 4:33	3/6/19 4:36	3/6/19 5:08	3/6/19 5:10
EVACUATION METHOD	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump
PID/FID (PPM)	15.000+	NM	NM	NM	NM	NM	NM	NM
DEPTH OF WELL (FT)	16.35	NM	NM	NM	NM	NM	NM	NM
STATIC WATER LEVEL (SWL) FT	9.05	NM	NM	NM	NM	NM	NM	NM
VOLUME EVACUATED (GAL)	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
TOTAL VOLUME EVACUATED (GAL)	0	0.5	1.0	1.5	2.0	2.5	3.0	3.5
TEMPERATURE (^{O}C) +/- 10%	NM	18.9	17.0	17.7	17.1	17.1	17.1	17.1
pH +/- 0.1	NM	7.72	7.67	7.75	7.53	7.50	7.38	7.44
ORP (mV)	NM	-3.6	-40.6	-45.1	-33.0	-55.5	-24.5	9.5
CONDUCTIVITY (µs/cm) +/-3 %	NM	2.386	2.540	3.030	3.768	3.723	4.673	4.040
TURBIDITY (<50 NTUs)	NM	6050.96	7412.80	1020.21	4918.93	3217.46	6009.38	2235.24
VISUAL OBSERVATION	Soft bottom	Orange	Unknown odor and slight sheen					Dry

LEGEND: NC = Not Collected
ND = Not Detected
NM = Not Measured
*= Not Measurable

Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606

WELL DEVELOPMENT DATA
MW-N

SITE LOCATION: 962, 966, 972-974 East Main Street, Rochester, New York JOB#: RSTW.5491R-18

DATE/ TIME	3/7/19 14:20	3/7/19 14:30	3/7/19 14:50	3/7/19 14:55	3/7/19 15:09	3/7/19 15:11	3/7/19 15:13	3/7/19 15:16
EVACUATION METHOD	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump
PID/FID (PPM)	160.6	93.5	152.6	150.0	129.8	280.5	122.3	97.8
DEPTH OF WELL (FT)	NM	NM	NM	NM	NM	NM	NM	NM
STATIC WATER LEVEL (SWL) FT	14.25	17.5	15.0	16.4	13.75	14.75	15.65	16.45
VOLUME EVACUATED (GAL)	1.0	1.0	0.5	0.5	0.25	0.25	0.25	0.25
TOTAL VOLUME EVACUATED (GAL)	11.0	12.0	12.5	13.0	13.25	13.5	13.75	14.00
TEMPERATURE (^{O}C) +/- 10%	17.1	17.2	17.1	17.2	17.3	17.1	17.1	17.1
pH +/- 0.1	7.33	7.40	7.32	7.33	7.38	7.31	7.31	7.34
ORP (mV)	-6.1	-24.7	-23.6	-22.5	-26.6	-28.5	-30.5	-31.3
CONDUCTIVITY (µs/cm) +/-3 %	5.394	5.180	5.357	5.323	5.270	5.354	5.350	5.317
TURBIDITY (<50 NTUs)	205.74	329.34	225.00	256.64	320.62	209.58	239.25	247.31
	Dry		Dry					

LEGEND: NC = Not Collected
ND = Not Detected
NM = Not Measured
*= Not Measurable

Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606

WELL DEVELOPMENT DATA
BRMW-1

SITE LOCATION: 962, 966, 972-974 East Main Street, Rochester, New York JOB#: RSTW.5491R-18

DATE/ TIME	3/7/19 8:58	3/7/19 8:59	3/7/19 9:02	3/7/19 9:06	3/7/19 9:13	3/7/19 9:16	3/7/19 9:22	3/7/19 9:25
EVACUATION METHOD	Monsoon	Monsoon	Monsoon	Monsoon	Monsoon	Monsoon	Monsoon	Monsoon
PID/FID (PPM)	7.2	NM	NM	NM	NM	NM	NM	NM
DEPTH OF WELL (FT)	49.30	NM	NM	NM	NM	NM	NM	NM
STATIC WATER LEVEL (SWL) FT	26.48	NM	NM	NM	NM	29.45	NM	28.22
VOLUME EVACUATED (GAL)	250	5	5	5	5	5	5	5
TOTAL VOLUME EVACUATED (GAL)	1250	255	260	265	270	275	280	285
TEMPERATURE (^{O}C) +/- 10%	10.8	12.7	11.6	12.6	13.4	13.7	13.8	13.5
pH +/- 0.1	7.96	7.54	7.55	7.45	7.56	7.43	7.41	7.46
ORP (mV)	-5.6	-35.5	-60.9	-71.5	-103.9	-116.6	-139.9	-137.9
CONDUCTIVITY (μs/cm) +/-3 %	3.670	4.089	4.230	4.538	4.062	4.603	4.623	4.706
TURBIDITY (<50 NTUs)	182.61	156.27	131.11	97.84	124.02	167.71	130.25	139.98
VISUAL OBSERVATION	Slightly turbid	Slight rainbow sheen	Slight rainbow sheen	Slight rainbow sheen	Slight rainbow sheen	Slight rainbow sheen	Slight rainbow sheen	Slight rainbow sheen

LEGEND: NC = Not Collected
ND = Not Detected
NM = Not Measured
*= Not Measurable

Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606

WELL DEVELOPMENT DATA
BRMW-2

SITE LOCATION: 962, 966, 972-974 East Main Street, Rochester, New York JOB#: RSTW.5491R-18

DATE/ TIME	3/6/19	3/6/19 9:25	3/6/19 10:00	3/6/19 10:05	3/6/19 10:09	3/6/19 10:11	3/6/19 10:14	3/6/19 10:
EVACUATION METHOD	Gas Pump	Monsoon	Monsoon	Monsoon	Monsoon	Monsoon	Monsoon	Monsoon
PID/FID (PPM)	NM	NM	2.4	NM	NM	NM	NM	NM
DEPTH OF WELL (FT)	38.65	38.65	38.65	NM	NM	NM	NM	NM
STATIC WATER LEVEL (SWL) FT	15.73	17.38	15.64	NM	NM	NM	NM	17.22
VOLUME EVACUATED (GAL)	100	200	300	5	5	5	5	5
TOTAL VOLUME EVACUATED (GAL)	100	300	600	605	610	615	620	625
TEMPERATURE (^{O}C) +/- 10%	12.9	13.1	11.7	13.0	13.0	13.3	13.3	13.3
pH +/- 0.1	9.15	7.10	7.24	7.25	7.14	7.19	7.17	7.17
ORP (mV)	325.1	154.6	51.8	44.5	22.1	16.4	13.4	12.5
CONDUCTIVITY (µs/cm) +/-3 %	2.939	4.545	4.575	4.530	4.606	4.594	4.594	4.588
TURBIDITY (<50 NTUs)	156.47	299	153.53	156.21	167.95	190.77	176.53	174.22
VISUAL OBSERVATION								

LEGEND: NC = Not Collected
ND = Not Detected
NM = Not Measured
*= Not Measurable

Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606

WELL DEVELOPMENT DATA
BRMW-2

SITE LOCATION: 962, 966, 972-974 East Main Street, Rochester, New York JOB#: RSTW.5491R-18

DATE/ TIME	3/7/19 10:21	3/7/19 10:25	3/7/19 10:28	3/7/19 10:31	3/7/19 10:34			
EVACUATION METHOD	Monsoon	Monsoon	Monsoon	Monsoon	Monsoon			
PID/FID (PPM)	NM	NM	NM	NM	NM			
DEPTH OF WELL (FT)	NM	NM	NM	NM	NM			
STATIC WATER LEVEL (SWL) FT	NM	NM	NM	NM	NM			
VOLUME EVACUATED (GAL)	5	5	5	5	5			
TOTAL VOLUME EVACUATED (GAL)	630	635	640	645	650			
TEMPERATURE (^{O}C) +/- 10%	13.3	12.8	13.3	13.4	13.5			
pH +/- 0.1	7.17	7.13	7.16	7.17	7.17			
ORP (mV)	12.8	12.0	12.5	12.8	13.9			
CONDUCTIVITY (µs/cm) +/-3 %	4.598	4.632	4.577	4.560	4.555			
TURBIDITY (<50 NTUs)	177.62	196.61	200.88	152.57	159.63			
VISUAL OBSERVATION								

LEGEND: NC = Not Collected
ND = Not Detected
NM = Not Measured
*= Not Measurable

Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606

WELL DEVELOPMENT DATA
BRMW-3

SITE LOCATION: 962, 966, 972-974 East Main Street, Rochester, New York JOB#: RSTW.5491R-18

DATE/ TIME	6/26/19 14:45	6/26/19 15:40	6/26/19 16:20	6/26/19 17:05	6/26/19 17:09	6/26/19 17:12	6/26/19 17:15	6/26/19 17:18
EVACUATION METHOD	Monsoon	Monsoon	Monsoon	Monsoon	Monsoon			
PID (PPM)	613.8	235	218		23.4	11.7	13.9	22.6
DEPTH OF WELL (FT)	16.95			23.91	23.90	24.21	24.26	23.86
STATIC WATER LEVEL (SWL) FT	39.51							
VOLUME EVACUATED (GAL)	155			20	25	30	35	40
TOTAL VOLUME EVACUATED (GAL)	155			170	175	180	185	190
TEMPERATURE (^{O}C) +/- 10%	19.2	18.9	19.2	18.0	17.8	17.6	17.6	17.6
pH +/- 0.1	7.38	7.4	7.14	7.25	7.06	7.04	7.03	7.03
ORP (mV)	134.0	-62.6	-77.9	-80	-76.4	-81.9	-81.9	-85.3
CONDUCTIVITY (ms/cm) +/-3 %	6.831	6.607	6.352	6.354	6.239	6.217	6.226	6.186
TURBIDITY (<50 NTUs)	3920	981.96	191	39.04	49.61	52.29	51.60	45.44
VISUAL OBSERVATION	Cloudy	Clear	Clear					

LEGEND: NC = Not Collected
ND = Not Detected
NM = Not Measured
*= Not Measurable

Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606

WELL DEVELOPMENT DATA
BRMW-3

SITE LOCATION: 962, 966, 972-974 East Main Street, Rochester, New York JOB#: RSTW.5491R-18

DATE/ TIME	6/26/19 17:21	6/26/19 17:24						
EVACUATION METHOD	Monsoon	Monsoon						
PID (PPM)	14.5	44.4						
DEPTH OF WELL (FT)								
STATIC WATER LEVEL (SWL) FT	23.81	23.96						
VOLUME EVACUATED (GAL)	45	50						
TOTAL VOLUME EVACUATED (GAL)	195	200						
TEMPERATURE (^{O}C) +/- 10%	17.6	17.6						
pH +/- 0.1	7.03	7.03						
ORP (mV)	-85.9	-86.9						
CONDUCTIVITY (ms/cm) +/-3 %	6.186	6.213						
TURBIDITY (<50 NTUs)	37.76	32.09						
VISUAL OBSERVATION								

LEGEND: NC = Not Collected
ND = Not Detected
NM = Not Measured
*= Not Measurable

Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606

WELL DEVELOPMENT DATA
BRMW-4

SITE LOCATION: 962, 966, 972-974 East Main Street, Rochester, New York JOB#: RSTW.5491R-18

DATE/ TIME	6/26/19 9:55	6/26/19 13:05	6/26/19 13:25	6/26/19 13:35	6/26/19 13:45	6/26/19 13:55		
EVACUATION METHOD	Monsoon	Monsoon	Monsoon	Monsoon	Monsoon	Monsoon		
PID (PPM)	1.4	7.1	8.2	7.9	12.8	16.6		
DEPTH OF WELL (FT)	39.70							
STATIC WATER LEVEL (SWL) FT	12.79	17.37	16.38	15.82	15.47	15.28		
VOLUME EVACUATED (GAL)	5	295	35	5	5	5		
TOTAL VOLUME EVACUATED (GAL)	5	300	305	310	315	320		
TEMPERATURE (^{O}C) +/- 10%	8.6	18.6	18.6	18.2	18.5	18.3		
pH +/- 0.1	6.96	7.33	7.21	7.19	7.17	7.17		
ORP (mV)	186.5	153.4	149.3	147.6	123.2	117.3		
CONDUCTIVITY (ms/cm) +/-3 %	8.178	7.679	7.655	7.653	7.695	7.696		
TURBIDITY (<50 NTUs)	156.03	23.6	20.85	17.85	13.8-	7.80		
VISUAL OBSERVATION	Fairly Clear	Clear	Clear	Clear	Clear	Clear		

LEGEND: NC = Not Collected
ND = Not Detected
NM = Not Measured
*= Not Measurable

Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606

WELL DEVELOPMENT DATA
MW-O

SITE LOCATION: 962, 966, 972-974 East Main Street, Rochester, New York JOB#: RSTW.5491R-18

DATE/ TIME	8/28/19 11:17	8/28/19 11:20	8/28/19 11:23	8/28/19 12:28	8/28/19 12:43	8/28/19 12:47	8/28/19 12:51	8/28/19 12:55
EVACUATION METHOD	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer
PID/FID (PPM)	6369	NM	NM	NM	NM	NM	NM	NM
DEPTH OF WELL (FT)	13.43	NM	NM	13.61	NM	NM	NM	NM
STATIC WATER LEVEL (SWL) FT	8.16	NM	NM	8.19	NM	NM	NM	NM
VOLUME EVACUATED (GAL)	0.03	0.03	0.06	0.06	0.06	0.06	0.06	0.14
TOTAL VOLUME EVACUATED (GAL)	0.03	0.06	0.12	0.18	0.24	0.30	0.36	0.5
TEMPERATURE (^{O}C) +/- 10%	24.39	25.39	22.79	23.91	23.41	23.51	22.60	21.93
pH +/- 0.1	8.10	7.96	7.96	8.01	7.96	7.87	7.81	7.80
ORP (mV)	59	60	66	108	76	65	78	78
CONDUCTIVITY (µs/cm) +/-3 %	4.85	4.11	5.09	5.68	6.03	5.81	6.00	6.00
TURBIDITY (<50 NTUs)	1000+	1000+	1000+	1000+	1000+	1000+	1000+	1000+
VISUAL OBSERVATION	Very soft bottom, strong odor	1” orange LNAPL, strong odor	1” orange LNAPL, strong odor	1” orange LNAPL, strong odor	1” orange LNAPL, strong odor	1” orange LNAPL, strong odor	1” orange LNAPL, strong odor	1” orange LNAPL, strong odor

LEGEND: NC = Not Collected
ND = Not Detected
NM = Not Measured
*= Not Measurable

Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606

WELL DEVELOPMENT DATA
MW-O

SITE LOCATION: 962, 966, 972-974 East Main Street, Rochester, New York JOB#: RSTW.5491R-18

DATE/ TIME	8/28/19 13:05	8/28/19 13:11	8/28/19 13:26	8/28/19 13:28	8/28/19 13:30	8/28/19 13:33	8/28/19 13:35	8/28/19 13:38
EVACUATION METHOD	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump
PID/FID (PPM)	NM	NM	NM	NM	NM	NM	NM	NM
DEPTH OF WELL (FT)	NM	NM	NM	NM	NM	NM	NM	NM
STATIC WATER LEVEL (SWL) FT	NM	NM	NM	NM	NM	NM	NM	NM
VOLUME EVACUATED (GAL)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
TOTAL VOLUME EVACUATED (GAL)	0.75	1.0	1.25	1.5	1.75	2.0	2.22	2.5
TEMPERATURE (^{O}C) +/- 10%	23.66	22.30	22.21	21.18	20.60	20.38	20.18	20.25
pH +/- 0.1	7.77	7.82	7.80	7.83	7.81	7.81	7.80	7.81
ORP (mV)	76	81	46	44	17	8	-1	2
CONDUCTIVITY (µs/cm) +/-3 %	3.34	5.65	4.76	5.34	5.27	5.30	5.29	530
TURBIDITY (<50 NTUs)	1000+	1000+	1000+	1000+	1000+	996	803	810
VISUAL OBSERVATION	Turbid, odor	Turbid, odor	Turbid, odor	Turbid, odor	Turbid, odor	More Clear	More Clear	More Clear

LEGEND: NC = Not Collected
ND = Not Detected
NM = Not Measured
*= Not Measurable

Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606

WELL DEVELOPMENT DATA
MW-O

SITE LOCATION: 962, 966, 972-974 East Main Street, Rochester, New York JOB#: RSTW.5491R-18

DATE/ TIME	8/28/19 13:40	8/28/19 13:42	8/28/19 13:44	8/28/19 13:47				
EVACUATION METHOD	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump				
PID/FID (PPM)	NM	NM	NM	2261				
DEPTH OF WELL (FT)	NM	NM	NM	14.38				
STATIC WATER LEVEL (SWL) FT	NM	NM	NM	8.18				
VOLUME EVACUATED (GAL)	0.5	0.25	0.5	0.25				
TOTAL VOLUME EVACUATED (GAL)	3.0	3.25	3.75	4.0				
TEMPERATURE (^{O}C) +/- 10%	20.17	19.88	19.83	19.80				
pH +/- 0.1	7.80	7.79	7.78	7.78				
ORP (mV)	17	13	-9	-13				
CONDUCTIVITY (µs/cm) +/-3 %	5.25	5.29	5.38	5.35				
TURBIDITY (<50 NTUs)	663	573	944	864				
VISUAL OBSERVATION	More Clear	More Clear	More Clear	Hard bottom				

LEGEND: NC = Not Collected
ND = Not Detected
NM = Not Measured
*= Not Measurable

Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606

WELL DEVELOPMENT DATA
MW-P

SITE LOCATION: 962, 966, 972-974 E. Main St, Rochester, NY JOB#: 5491R-18

DATE/ TIME	7/27/21 10:13	7/27/21 10:23	7/27/21 10:37	7/27/21 10:53	7/27/21 11:35	7/27/21 11:51	7/27/21 12:01	7/27/21 12:12
EVACUATION METHOD	Monsoon Pump	Monsoon Pump	Monsoon Pump	Monsoon Pump	Monsoon Pump	Monsoon Pump	Monsoon Pump	Monsoon Pump
PID (PPM)	54.1	NM	NM	NM	NM	NM	NM	NM
DEPTH OF WELL (FT)	16.01	16.01	16.01	16.01	16.01	16.01	16.01	16.01
STATIC WATER LEVEL (SWL) FT	8.51	9.61	11.45	12.18	15.1	13.79	13.19	14.65
VOLUME EVACUATED (GAL)	0.5	2.0	1.0	3.25	3.5	2.0	1.0	1.5
TOTAL VOLUME EVACUATED (GAL)	0.5	2.5	3.25	6.5	10.0	12.0	13.0	14.5
TEMPERATURE (^{O}C)	23.3	23.4	22.2	22.6	22.4	22.4	22.4	22.3
pH	7.53	7.46	7.32	7.17	7.14	7.24	7.28	7.39
ORP (mV)	43.8	-221.3	-92.5	-13.3	-38.1	-69.9	-94.1	-90.4
CONDUCTIVITY (ms/cm)	1.352	1.542	1.459	1.674	1.722	1.861	1.953	1.931
TURBIDITY (NTU)	5906.18	1060.36	5322.63	2814.32	961.52	64.43	59.31	328.10
VISUAL OBSERVATION	Brown, turbid, sediment, slight chemical type odor	Brown, turbid, sediment, slight chemical type odor	Brown, turbid, floating sediment, slight chemical type odor	Brown, turbid, sediment, slight chemical type odor	Brown, slightly turbid, slight chemical type odor	Light brown, cloudy, slight chemical type odor	Light brown, cloudy, slight chemical type odor	Light brown, cloudy, slight chemical type odor

LEGEND: NC = Not Collected
ND = Not Detected
*= Not Measurable

Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606

WELL DEVELOPMENT DATA
MW-P

SITE LOCATION: 962, 966, 972-974 E. Main St, Rochester, NY JOB#: 5491R-18

DATE/ TIME	7/27/21 12:21	7/27/21 12:33	7/27/21 12:43	7/27/21 12:53				
EVACUATION METHOD	Monsoon Pump	Monsoon Pump	Monsoon Pump	Monsoon Pump				
PID (PPM)	NM	NM	NM	NM				
DEPTH OF WELL (FT)	NM	NM	NM	16.28				
STATIC WATER LEVEL (SWL) FT	14.5	13.9	13.38	13.05				
VOLUME EVACUATED (GAL)	1.0	1.5	1.0	1.0				
TOTAL VOLUME EVACUATED (GAL)	15.5	17.0	18.0	19.0				
TEMPERATURE (^{O}C)	22.1	22.2	22.4	22.4				
pH	7.27	7.26	7.36	7.35				
ORP (mV)	-92.1	-102.1	-102.4	-90.1				
CONDUCTIVITY (ms/cm)	1.938	1.978	1.987	1.927				
TURBIDITY (NTU)	37.91	39.33	9.50	24.92				
VISUAL OBSERVATION	Light brown, cloudy, chemical type odor	Light brown, cloudy, chemical type odor	Clear, slightly cloudy, chemical type odor	Clear, chemical type odor				

LEGEND: NC = Not Collected
ND = Not Detected
*= Not Measurable

Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606

WELL DEVELOPMENT DATA
MW-Q

SITE LOCATION: 962, 966, 972-974 E. Main St, Rochester, NY JOB#: 5491R-18

DATE/ TIME	7/29/21 12:54	7/29/21 12:58	7/29/21 13:03	7/29/21 13:08	7/29/21 13:12	7/29/21 13:15	7/29/21 13:28	7/29/21 13:33
EVACUATION METHOD	Monsoon Pump	Monsoon Pump	Monsoon Pump	Monsoon Pump	Monsoon Pump	Monsoon Pump	Monsoon Pump	Monsoon Pump
PID (PPM)	NC	NC	NC	NC	NC	NC	NC	NC
DEPTH OF WELL (FT)	17.34	NM	NM	NM	NM	17.34	NM	NM
STATIC WATER LEVEL (SWL) FT	9.05	10.75	11.5	12.38	13.1	14.6	13.9	16.21
VOLUME EVACUATED (GAL)	0	1.0	1.0	1.0	0.5	0.5	1.0	1.0
TOTAL VOLUME EVACUATED (GAL)	0	1.0	2.0	3.0	3.5	4.0	5.0	6.0
TEMPERATURE (^{O}C)	22.2	22.5	22.8	22.5	22.6	22.3	22.4	22.4
pH	7.66	7.41	7.35	7.35	7.48	7.44	7.34	7.38
ORP (mV)	216.2	201.6	195.4	184.6	176.3	154.3	178.2	130.0
CONDUCTIVITY (ms/cm)	0.995	1.075	1.124	1.245	1.224	1.327	1.478	1.662
TURBIDITY (NTU)	2149.73	6873.02	7122.49	2826.75	1752.31	2111.70	3059.02	5671.21
VISUAL OBSERVATION	Brown, turbid	Brown, turbid	Brown, turbid	Brown, turbid	Light brown, cloudy	Light brown, cloudy	Brown, turbid	Brown, turbid

LEGEND: NC = Not Collected
ND = Not Detected
*= Not Measurable

Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606

WELL DEVELOPMENT DATA
MW-Q

SITE LOCATION: 962, 966, 972-974 E. Main St, Rochester, NY JOB#: 5491R-18

DATE/ TIME	7/29/21 13:46	7/29/21 13:59	7/29/21 14:04	7/29/21 14:27	7/29/21 14:35			
EVACUATION METHOD	Monsoon Pump	Monsoon Pump	Monsoon Pump	Monsoon Pump	Monsoon Pump			
PID (PPM)	NC	NC	NC	NC	NC			
DEPTH OF WELL (FT)	17.34	NM	NM	NM	NM			
STATIC WATER LEVEL (SWL) FT	NM, below pump	NM	Nm	16.2	16.0			
VOLUME EVACUATED (GAL)	1	1	1	1	0.5			
TOTAL VOLUME EVACUATED (GAL)	7	8	9	10	10.5			
TEMPERATURE (^{O}C)	22.3	22.6	22.6	22.4	22.3			
pH	7.20	7.24	7.28	7.46	7.35			
ORP (mV)	144.6	168.7	169.4	175.4	172.0			
CONDUCTIVITY (ms/cm)	1.632	1.671	1.644	1.695	1.777			
TURBIDITY (NTU)	3128.12	2233.87	1186.93	356.49	352.81			
VISUAL OBSERVATION	Brown, turbid	Brown, turbid	Brown, turbid	Turbid	Turbid			

LEGEND: NC = Not Collected
ND = Not Detected
*= Not Measurable

Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606

WELL DEVELOPMENT DATA
MW-R

SITE LOCATION: 962, 966, 972-974 E. Main St, Rochester, NY JOB#: 5491R-18

DATE/ TIME	7/30/2021 8:37	7/30/2021 13:03	7/30/2021 13:48	7/30/2021 14:00	8/2/2021 9:09	8/2/2021 9:16	8/2/2021 9:25	8/2/2021 9:45
EVACUATION METHOD	Monsoon pump	Monsoon pump	Monsoon pump	Monsoon pump	Monsoon pump	Monsoon pump	Monsoon pump	Monsoon pump
PID (PPM)	NM	NM	NM	NM	NM	NM	NM	NM
DEPTH OF WELL (FT)	16.2 (soft bottom)	NM	16.7	16.7 (hard bottom)	16.7 (hard bottom)	NM	NM	NM
STATIC WATER LEVEL (SWL) FT	7.89 prior to purge	13.9	15.35	16.0	7.89	16.15	NM	NM
VOLUME EVACUATED (GAL)	3 (dry)	2 (dry)	2 (dry)	0.5 (dry)	2 (dry)	1 (dry)	0.5 (dry)	1 (dry)
TOTAL VOLUME EVACUATED (GAL)	3	5	7	7.5	9.5	10.5	11	12
TEMPERATURE (^{O}C)	23.8	NM	NM	NM	NM	NM	22.8	NM
pH	7.64	NM	NM	NM	NM	NM	7.38	NM
ORP (mV)	-175.8	NM	NM	NM	NM	NM	40.4	NM
CONDUCTIVITY (ms/cm)	1.061	NM	NM	NM	NM	NM	2.570	NM
TURBIDITY (NTU)	501.85	NM	NM	NM	NM	NM	1486.46	NM
VISUAL OBSERVATION	Brown, turbid, sediment observed	Brown, turbid, sediment observed	Brown, turbid, sediment observed	Brown, turbid, sediment observed	Brown, turbid, sediment observed	Brown, turbid, sediment observed	Brown, turbid, sediment observed	Brown, turbid, sediment observed

LEGEND:
NC = Not Collected
ND = Not Detected
*= Not Measurable

Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606

WELL DEVELOPMENT DATA
MW-R

SITE LOCATION: 962, 966, 972-974 E. Main St, Rochester, NY JOB#: 5491R-18

DATE/ TIME	8/2/2021 14:00	8/2/2021 14:11	8/2/2021 14:18	8/2/2021 14:24	8/2/2021 14:31	8/2/2021 14:46	8/2/2021 14:53	8/4/2021 10:45
EVACUATION METHOD	Monsoon pump	Monsoon pump	Monsoon pump	Monsoon pump	Monsoon pump	Monsoon pump	Monsoon pump	Foot valve & surge block
PID (PPM)	NM	NM	NM	NM	NM	NM	NM	265.0
DEPTH OF WELL (FT)	16.72	NM	NM	NM	NM	NM	NM	16.72
STATIC WATER LEVEL (SWL) FT	7.83	11.91	13.85	14.93	16.18	NM (below pump)	NM (below pump)	8.0
VOLUME EVACUATED (GAL)	0	1	1.5	1	1	1	0.5 (dry)	7
TOTAL VOLUME EVACUATED (GAL)	12	13	14.5	15.5	16.5	17.5	18	25
TEMPERATURE (^{O}C)	NM	23.5	23.0	22.5	22.4	23.4	NM	NM
pH	NM	7.61	7.93	7.83	7.70	7.97	NM	NM
ORP (mV)	NM	60.7	110.1	120.1	24.9	60.1	NM	NM
CONDUCTIVITY (ms/cm)	NM	2.521	2.722	2.677	2.543	2.617	NM	NM
TURBIDITY (NTU)	NM	570.16	1880.20	1186.38	1654.11	1208.35	NM	NM
VISUAL OBSERVATION	Brown, sediment observed	Brown, turbid	Brown, turbid	Brown, turbid	Brown, turbid	Brown, turbid	Brown, turbid	Brown, turbid, sediment observed

LEGEND: NC = Not Collected
ND = Not Detected
*= Not Measurable

Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606

WELL DEVELOPMENT DATA
MW-S

SITE LOCATION: 962, 966, 972-974 E. Main St, Rochester, NY JOB#: 5491R-18

DATE/ TIME	8/2/2021 10:24	8/2/2021 10:29	8/2/2021 10:33	8/2/2021 10:44	8/2/2021 10:50	8/2/2021 10:53	8/2/2021 10:56	8/2/2021 10:59
EVACUATION METHOD	Monsoon pump	Monson pump	Monsoon pump	Monsoon pump	Monsoon pump	Monsoon pump	Monsoon pump	Monsoon pump
PID (PPM)	NM	NM	NM	NM	NM	NM	NM	NM
DEPTH OF WELL (FT)	16.35	NM	NM	NM	NM	NM	NM	NM
STATIC WATER LEVEL (SWL) FT	9.73	10.91	11.53	12.0	12.73	12.79	13.2	13.5
VOLUME EVACUATED (GAL)	0	1	0.5	1	1	0.5	0.5	0.5
TOTAL VOLUME EVACUATED (GAL)	0	1	1.5	2.5	3.5	4	4.5	5
TEMPERATURE (^{O}C)	18.3	17.6	17.3	17.4	17.1	16.9	16.8	16.8
pH	7.49	7.34	7.31	7.45	7.43	7.34	7.37	7.36
ORP (mV)	111.3	2.4	73.7	107.2	48.3	25.0	-14.7	15.3
CONDUCTIVITY (ms/cm)	2.674	1.972	1.787	1.675	1.566	1.923	1.885	1.999
TURBIDITY (NTU)	1290.54	5987.31	1766.18	2970.37	1454.61	3561.47	3576.21	3507.64
VISUAL OBSERVATION	Brown, turbid, sediment observed	Brown, turbid, sediment observed	Brown, turbid	Brown, turbid	Brown, turbid	Brown, turbid	Brown, turbid	Brown, turbid

LEGEND: NC = Not Collected
ND = Not Detected
*= Not Measurable

Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606

WELL DEVELOPMENT DATA
MW-S

SITE LOCATION: 962, 966, 972-974 E. Main St, Rochester, NY JOB#: 5491R-18

DATE/ TIME	8/2/2021 11:27	8/2/2021 11:35	8/2/2021 11:39	8/2/2021 11:44	8/2/2021 11:51	8/2/2021 12:00	8/2/2021 12:49	8/2/2021 12:58
EVACUATION METHOD	Monsoon pump	Monson pump	Monsoon pump	Monsoon pump	Monsoon pump	Monsoon pump	Monsoon pump	Monsoon pump
PID (PPM)	NM	NM	NM	NM	NM	NM	NM	NM
DEPTH OF WELL (FT)	NM	NM	NM	NM	NM	NM	NM	NM
STATIC WATER LEVEL (SWL) FT	11.75	12.51	13.60	14.47	NW (below pump)	NM (below pump)	12.35	14.67
VOLUME EVACUATED (GAL)	1	1	1	1	1	1	1	2
TOTAL VOLUME EVACUATED (GAL)	6	7	8	9	10	11	12	14
TEMPERATURE (^{O}C)	17.1	17.1	16.8	17.0	17.4	17.4	17.5	17.1
pH	7.61	7.36	7.25	7.27	7.46	7.27	7.87	7.69
ORP (mV)	135.4	179.8	57.3	151.0	145.5	93.6	174.2	183.6
CONDUCTIVITY (ms/cm)	2.085	2.032	2.198	3.466	3.015	2.659	2.139	2.354
TURBIDITY (NTU)	793.67	2070.31	3836.93	4844.73	4160.83	2353.41	502.22	908.01
VISUAL OBSERVATION	Turbid	Brown, turbid	Brown, turbid	Brown, turbid	Brown, turbid	Brown, turbid	Turbid	Turbid

LEGEND: NC = Not Collected
ND = Not Detected
*= Not Measurable

Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606

WELL DEVELOPMENT DATA
MW-S

SITE LOCATION: 962, 966, 972-974 E. Main St, Rochester, NY JOB#: 5491R-18

DATE/ TIME	8/2/2021 13:06	8/2/2021 13:10	8/2/2021 13:13	8/2/2021 13:17	8/2/2021 13:20	8/2/2021 13:25	8/2/2021 13:29	8/2/2021 13:33
EVACUATION METHOD	Monsoon pump	Monson pump	Monsoon pump	Monsoon pump	Monsoon pump	Monsoon pump	Monsoon pump	Monsoon pump
PID (PPM)	NM	NM	NM	NM	NM	NM	NM	NM
DEPTH OF WELL (FT)	NM	NM	NM	NM	NM	NM	NM	16.35
STATIC WATER LEVEL (SWL) FT	14.85	14.91	14.91	15.15	16.11	15.05	15.91	15.32
VOLUME EVACUATED (GAL)	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5
TOTAL VOLUME EVACUATED (GAL)	15	15.5	16	16.5	17	17.5	18	18.5
TEMPERATURE (^{O}C)	17.1	16.9	17.0	17.1	17.1	17.1	17.1	17.1
pH	7.52	7.37	7.33	7.34	7.36	7.24	7.28	7.26
ORP (mV)	180.6	163.0	160.0	159.3	174.9	158.0	155.1	157.3
CONDUCTIVITY (ms/cm)	2.469	2.150	2.256	2.290	2.254	2.233	2.264	2.294
TURBIDITY (NTU)	852.03	160.34	120.39	206.94	102.55	140.29	99.17	54.96
VISUAL OBSERVATION	Turbid	Turbid	Turbid	Turbid	Turbid	Turbid	Turbid	Turbid

LEGEND: NC = Not Collected
ND = Not Detected
*= Not Measurable

Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606

WELL DEVELOPMENT DATA
BRMW-5

SITE LOCATION: 962, 966, 972-974 E. Main St, Rochester, NY JOB#: 5491R-18

DATE/ TIME	7/27/21 14:52	7/29/21 9:20	7/29/21 9:58	7/29/21 10:08	7/29/21 10:16	7/29/21 10:24	7/29/21 10:31	7/21/29 10:35
EVACUATION METHOD	Monsoon Pump	Monsoon Pump	Monsoon Pump	Monsoon Pump	Monsoon Pump	Monsoon Pump	Monsoon Pump	Monsoon Pump
PID (PPM)	8.6	NM	NM	NM	NM	NM	NM	NM
DEPTH OF WELL (FT)	28.21	28.35	28.35	NM	NM	NM	NM	NM
STATIC WATER LEVEL (SWL) FT	17.97	18.03	19.15	19.45	18.8	20.1	20.25	21.05
VOLUME EVACUATED (GAL)	36.0	14.0	0	3.0	3.0	3.0	3.0	3.0
TOTAL VOLUME EVACUATED (GAL)	36	50	50	53	56	59	62	65
TEMPERATURE (^{O}C)	NC	NC	20.1	19.0	19.0	18.6	18.6	18.4
pH	NC	NC	7.19	7.29	7.19	7.26	7.31	7.29
ORP (mV)	NC	NC	-70.9	-80.3	-83.1	-87.0	-79.6	-79.4
CONDUCTIVITY (ms/cm)	NC	NC	4.639	4.609	4.527	4.018	4.351	4.119
TURBIDITY (NTU)	NC	NC	253.72	74.81	22.06	124.47	119.49	96.71
VISUAL OBSERVATION	Light brown/gray, turbid, chemical type odor	Gray/brown, cloudy, chemical type odor	Gray, cloudy, sediment, chemical type odor	Gray, cloudy, chemical type odor	Gray, cloudy, chemical type odor	Gray, cloudy, chemical type odor	Gray, cloudy, chemical type odor	Gray, cloudy, chemical type odor

LEGEND: NC = Not Collected
ND = Not Detected
*= Not Measurable

Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606

WELL DEVELOPMENT DATA
BRMW-5

SITE LOCATION: 962, 966, 972-974 E. Main St, Rochester, NY JOB#: 5491R-18

DATE/ TIME	7/29/21 10:39	7/29/21 10:46						
EVACUATION METHOD	Monsoon Pump	Monsoon Pump						
PID (PPM)	NM	NM						
DEPTH OF WELL (FT)	NM	NM						
STATIC WATER LEVEL (SWL) FT	21.6	19.7						
VOLUME EVACUATED (GAL)	3.0	2.0						
TOTAL VOLUME EVACUATED (GAL)	68	70						
TEMPERATURE (^{O}C)	18.3	18.7						
pH	7.27	7.33						
ORP (mV)	-80.7	-79.4						
CONDUCTIVITY (ms/cm)	4.076	4.567						
TURBIDITY (NTU)	155.61	197.26						
VISUAL OBSERVATION	Gray, cloudy	Gray, cloudy						

LEGEND: NC = Not Collected
ND = Not Detected
*= Not Measurable

Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606

APPENDIX D

MONITORING WELL SAMPLING LOGS

DAY ENVIRONMENTAL, INC.
LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG
WELL MW-A

SECTION 1 - SITE AND WELL INFORMATION

SITE LOCATION 962, 966, 972-974 E. Main St, Rochester, NY **JOB #** 5491R-18

PROJECT NAME: Remedial Investigation **DATE:** 3/15/19

SAMPLE COLLECTOR(S): H. McLennan **WEATHER:** 45°F

PID READING IN WELL HEADSPACE (PPM): 900.6 **MEASURING POINT (for water levels):** Top of Casing

CASING TYPE: PVC **WELL DIAMETER (INCHES):** 1

SCREENED INTERVAL [FT BGS]: 6-16 **INITIAL WATER LEVEL (SWL) [FT]:** SWL / Date Measured 9.23 / 3-15-19

WELL DEPTH [FT BGS]: 16 **DEPTH OF PUMP INTAKE [FT BGS]:** 12.62
(Do NOT Measure Well depth Prior To Purging and Sampling)

LNAPL: ND **DNAPL:** ND **OTHER OBSERVATIONS:**

SECTION 2 – SAMPLING EQUIPMENT

CONTROL BOX: QED MP-10 **TUBING TYPE:** 1/4” Poly (Water) , 1/8” Poly (Air)

WATER QUALITY METER: YSI Pro-DSS **WATER LEVEL METER:** Heron Skinny Dipper

PUMP TYPE: ¾” Bladder **PURGE GAS:** Air

CONTROL BOX DISCHARGE RATE: 7 **CONTROL BOX REFILL RATE:** 3

STABILIZED PUMP RATE (ml/min): 50 **STABILIZED DRAWDOWN WATER LEVEL [FT]:** 9.4

SECTION 3 – WATER QUALITY DATA MONITORING

Time	Pumping Rate (ml/min)	Water Level (ft) (<0.33 ft)	DO (mg/L) (±10%)	ORP (mv) (±10 mV)	Turbidity (NTU) (±10 NTUs, if >10 NTU)	Conductivity (mS/cm) (±3%)	pH (±0.1)	Temp. (C^0) (±10%)	Total Vol. Pumped (ml)
12:52	60	9.35	0.89	-121.8	64.29	1.432	6.79	20.3	500
13:00	50	9.40	0.46	-107.3	18.63	1.172	6.67	19.9	900
13:07		9.40	0.35	-104.7	7.80	1.101	6.63	19.7	1300
13:15	50	9.40	0.24	-107.3	3.79	1.070	6.66	19.6	1700
13:22		9.40	0.21	-108.8	2.72	1.062	6.62	19.7	2100
13:30	50	9.40	0.18	-110.9	2.61	1.060	6.62	19.6	2600

SAMPLE OBSERVATIONS:

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS

SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-A	3-15-19 / 13:35	Bladder Pump	TCL & CP-51 VOCs & TICs 8260 TCL & CP-51 SVOCs & TICs 8270 TAL Metals Cyanide

DAY ENVIRONMENTAL, INC.
LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG
WELL MW-B

SECTION 1 - SITE AND WELL INFORMATION

SITE LOCATION 962, 966, 972-974 E. Main St, Rochester, NY **JOB #** 5491R-18

PROJECT NAME: Remedial Investigation **DATE:** 3/14/19

SAMPLE COLLECTOR(S): H. McLennan, H. Miller **WEATHER:** ~50°F

PID READING IN WELL HEADSPACE (PPM): 24.0

MEASURING POINT (for water levels): Top of Casing

CASING TYPE: PVC

WELL DIAMETER (INCHES): 1

SCREENED INTERVAL [FT BGS]: 6-16

INITIAL WATER LEVEL (SWL) [FT]: SWL / Date Measured: 11.29 / 3-14-19

WELL DEPTH [FT BGS]: 16
(Do NOT Measure Well depth Prior To Purging and Sampling)

DEPTH OF PUMP INTAKE [FT BGS]: 13.65

LNAPL: NA **DNAPL:** ND **OTHER OBSERVATIONS:**

SECTION 2 – SAMPLING EQUIPMENT

CONTROL BOX: QED MP-10 **TUBING TYPE:** 1/4” Poly (Water) , 1/8” Poly (Air)

WATER QUALITY METER: YSI Pro-DSS **WATER LEVEL METER:** Heron Skinny Dipper

PUMP TYPE: ¾” Bladder **PURGE GAS:** Air

CONTROL BOX DISCHARGE RATE: 3.0 **CONTROL BOX REFILL RATE:** 7.0

STABILIZED PUMP RATE (ml/min): 85 **STABILIZED DRAWDOWN WATER LEVEL [FT]:** 11.70

SECTION 3 – WATER QUALITY DATA MONITORING

Time	Pumping Rate (ml/min)	Water Level (ft) (<0.33 ft)	DO (mg/L) (±10%)	ORP (mv) (±10 mV)	Turbidity (NTU) (±10 NTUs, if >10 NTU)	Conductivity (mS/cm) (±3%)	pH (±0.1)	Temp. (C^0) (±10%)	Total Vol. Pumped (ml)
11:27	85	11.70	6.5	133.1	37.3	7.242	7.10	20.0	1,175
11:34	85	11.70	2.9	128.1	25.5	7.370	7.12	19.9	1,650
11:39	85	11.70	2.1	124.9	21.5	7.398	7.13	19.9	2,050
11:45	85	11.70	1.7	121.1	14.4	7.412	7.13	19.9	2,500
11:49	85	11.70	1.4	116.3	12.0	7.415	7.13	19.9	2,900
11:54	85	11.70	1.2	110.2	9.1	7.424	7.13	19.9	3,300
11:59	85	11.70	1.1	106.1	7.2	7.426	7.13	19.9	3,700
12:04	85	11.70	1.0	101.8	5.6	7.431	7.13	19.9	4,100

SAMPLE OBSERVATIONS:

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS

SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-B	3-14-19 / 12:07	Bladder Pump	TCL & CP-51 VOCs & TICs 8260

DAY ENVIRONMENTAL, INC.
LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG
WELL MW-D

SECTION 1 - SITE AND WELL INFORMATION

SITE LOCATION 962, 966, 972-974 E. Main St, Rochester, NY **JOB #** 5491R-18

PROJECT NAME: Remedial Investigation **DATE:** 3/13/19

SAMPLE COLLECTOR(S): H. McLennan, H. Miller **WEATHER:** 30°F, slightly cloudy

PID READING IN WELL HEADSPACE (PPM): 0.0

MEASURING POINT (for water levels): Top of Casing

CASING TYPE: PVC

WELL DIAMETER (INCHES): 1

SCREENED INTERVAL [FT BGS]: 15-25

INITIAL WATER LEVEL (SWL) [FT]: SWL / Date Measured: 16.66 / 3-13-19

WELL DEPTH [FT BGS]: 25
(Do NOT Measure Well depth Prior To Purging and Sampling)

DEPTH OF PUMP INTAKE [FT BGS]: 20.83

LNAPL: ND **DNAPL:** ND **OTHER OBSERVATIONS:** -

SECTION 2 – SAMPLING EQUIPMENT

CONTROL BOX: QED MP-10 **TUBING TYPE:** 1/4" Poly (Water) , 1/8" Poly (Air)

WATER QUALITY METER: YSI Pro-DSS **WATER LEVEL METER:** PI Mini (Red)

PUMP TYPE: ¾" Bladder **PURGE GAS:** Air

CONTROL BOX DISCHARGE RATE: 3 **CONTROL BOX REFILL RATE:** 7

STABILIZED PUMP RATE (ml/min): 100-80 **STABILIZED DRAWDOWN WATER LEVEL [FT]:** 16.71

SECTION 3 – WATER QUALITY DATA MONITORING

Time	Pumping Rate (ml/min)	Water Level (ft) (<0.33 ft)	DO (mg/L) (±10%)	ORP (mv) (±10 mV)	Turbidity (NTU) (±10 NTUs, if >10 NTU)	Conductivity (mS/cm) (±3%)	pH (±0.1)	Temp. (C^0) (±10%)	Total Vol. Pumped (ml)
10:08	100	16.68	1.87	172.3	85276	1.320	7.41	99	800
10:14	100	16.71	1.86	170.7	36381	1.283	7.47	101	1300
10:19	80	16.72	1.40	164.3	93.28	1.260	7.49	10.0	1700
10:24	80	16.71	0.84	147.2	53.67	1.231	7.49	9.9	2100
10:29	80	16.71	0.88	132.5	38.01	1.215	7.49	10.0	2500
10:34	80	16.71	0.68	93.4	25.02	1.211	7.49	9.8	2900
10:39	80	16.71	0.46	89.2	16.72	1.203	7.48	9.8	3300
10:44	80	16.71	0.39	76.9	14.51	1.196	7.49	9.7	3700
	SAMPLE OBSERVATIONS:								

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS

SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
121 - MW-D	3-13-19 / 10:45	Bladder Pump	TCL & CP-51 VOCs & TICs 8260

DAY ENVIRONMENTAL, INC.
LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG
WELL MW-E

SECTION 1 - SITE AND WELL INFORMATION

SITE LOCATION 962, 966, 972-974 E. Main St, Rochester, NY **JOB #** 5491R-18

PROJECT NAME: Remedial Investigation **DATE:** 3/13/19

SAMPLE COLLECTOR(S): H. Miller **WEATHER:** 30°F

PID READING IN WELL HEADSPACE (PPM): 0.0 **MEASURING POINT (for water levels):** Top of Casing

CASING TYPE: PVC **WELL DIAMETER (INCHES):** 1

SCREENED INTERVAL [FT BGS]: 15-25 **INITIAL WATER LEVEL (SWL) [FT]:** SWL / Date Measured 18.20 / 3-13-19

WELL DEPTH [FT BGS]: 25 **DEPTH OF PUMP INTAKE [FT BGS]:** 21.6
(Do NOT Measure Well depth Prior To Purging and Sampling)

LNAPL: ND **DNAPL:** ND **OTHER OBSERVATIONS:**

SECTION 2 – SAMPLING EQUIPMENT

CONTROL BOX: QED MP-10 **TUBING TYPE:** 1/4" Poly (Water) , 1/8" Poly (Air)

WATER QUALITY METER: YSI Pro-DSS **WATER LEVEL METER:** Heron Skinny Dipper

PUMP TYPE: ¾" Bladder **PURGE GAS:** Air

CONTROL BOX DISCHARGE RATE: 2.0 **CONTROL BOX REFILL RATE:** 10.0

STABILIZED PUMP RATE (ml/min): 75 **STABILIZED DRAWDOWN WATER LEVEL [FT]:** 17.53

SECTION 3 – WATER QUALITY DATA MONITORING

Time	Pumping Rate (ml/min)	Water Level (ft) (<0.33 ft)	DO (mg/L) (±10%)	ORP (mv) (±10 mV)	Turbidity (NTU) (±10 NTUs, if >10 NTU)	Conductivity (mS/cm) (±3%)	pH (±0.1)	Temp. (C^0) (±10%)	Total Vol. Pumped (ml)
3:15	75	17.53	6.1	-115.7	32.2	3.145	7.46	9.6	1250
3:20	75	17.53	3.8	-130.7	20.3	3.105	7.49	9.8	1700
3:25	75	17.53	0.34	-136.9	14.0	3.062	7.50	9.9	2100
3:31	75	17.53	0.28	-143.1	12.7	3.015	7.50	10.0	2500
3:37	75	17.53	0.24	-146.9	10.0	2.996	7.50	10.0	2900
3:43	75	17.53	0.22	-150.5	8.4	2.982	7.51	10.0	3300
3:49	75	17.53	0.21	-153.4	7.1	2.969	7.51	10.0	3700
3:55	75	17.53	0.21	-153.8	7.3	2.970	7.51	10.1	4100
	SAMPLE OBSERVATIONS:								

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS

SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
124 - MW-E	3-13-19 / 16:00	Bladder Pump	TCL & CP-51 VOCs & TICs 8260

DAY ENVIRONMENTAL, INC.
LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG
WELL MW-F

SECTION 1 - SITE AND WELL INFORMATION

SITE LOCATION 962, 966, 972-974 E. Main St, Rochester, NY **JOB #** 5491R-18

PROJECT NAME: Remedial Investigation **DATE:** 3/14/19

SAMPLE COLLECTOR(S): H. McLennan, H. Miller **WEATHER:** 55°F, cloudy

PID READING IN WELL HEADSPACE (PPM): 0.3

MEASURING POINT (for water levels): Top of Casing

CASING TYPE: PVC

WELL DIAMETER (INCHES): 1

SCREENED INTERVAL [FT BGS]: 9-19

INITIAL WATER LEVEL (SWL) [FT]: SWL / Date Measured: 10.29 / 3-14-19

WELL DEPTH [FT BGS]: 19
(Do NOT Measure Well depth Prior To Purging and Sampling)

DEPTH OF PUMP INTAKE [FT BGS]: 14.65

LNAPL: ND **DNAPL:** ND **OTHER OBSERVATIONS:**

SECTION 2 – SAMPLING EQUIPMENT

CONTROL BOX: QED MP-10 **TUBING TYPE:** 1/4" Poly (Water) , 1/8" Poly (Air)

WATER QUALITY METER: YSI Pro-DSS **WATER LEVEL METER:** Heron Skinny dipper

PUMP TYPE: ¾" Bladder **PURGE GAS:** Air

CONTROL BOX DISCHARGE RATE: 3.0 **CONTROL BOX REFILL RATE:** 7.0

STABILIZED PUMP RATE (ml/min): 90 **STABILIZED DRAWDOWN WATER LEVEL [FT]:** 10.20

SECTION 3 – WATER QUALITY DATA MONITORING

Time	Pumping Rate (ml/min)	Water Level (ft) (<0.33 ft)	DO (mg/L) (±10%)	ORP (mv) (±10 mV)	Turbidity (NTU) (±10 NTUs, if >10 NTU)	Conductivity (mS/cm) (±3%)	pH (±0.1)	Temp. (C^0) (±10%)	Total Vol. Pumped (ml)
13.39	90	10.20	1.38	115.8	61.5	6.935	7.03	11.3	800
13:43	90	10.20	1.40	109.4	48.5	6.846	7.04	10.8	1200
13:49	90	10.20	1.52	101.7	34.4	6.777	7.05	10.7	1600
13:54	90	10.20	1.43	91.7	24.6	6.790	7.05	10.7	2000
13:59	90	10.20	1.38	82.8	17.7	6.782	7.05	10.7	2400
14:04	90	10.20	1.33	75.3	14.0	6.794	7.06	10.8	2800
14:09	90	10.20	1.29	69.5	10.5	6.815	7.06	10.8	3200
14:14	90	10.20	1.27	65.6	9.4	6.801	7.06	10.8	3600
14:18	90	10.20	1.25	62.5	7.8	6.795	7.06	10.8	4000

SAMPLE OBSERVATIONS:

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS

SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
128 - MW-F	3-14-19 / 14:20	Bladder Pump	TCL & CP-51 VOCs & TICs 8260

DAY ENVIRONMENTAL, INC.
LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG
WELL MW-G

SECTION 1 - SITE AND WELL INFORMATION

SITE LOCATION 962, 966, 972-974 E. Main St, Rochester, NY
JOB # 5491R-18

PROJECT NAME: Remedial Investigation
DATE: 3/13/19

SAMPLE COLLECTOR(S): H. McLennan
WEATHER: 30°F, slightly cloudy

PID READING IN WELL HEADSPACE (PPM): 0.0
MEASURING POINT (for water levels): Top of Casing

CASING TYPE: PVC
WELL DIAMETER (INCHES): 1

SCREENED INTERVAL [FT BGS]: 13-23
INITIAL WATER LEVEL (SWL) [FT]: SWL / Date Measured: 16.21 / 3-13-19

WELL DEPTH [FT BGS]: 23
(Do NOT Measure Well depth Prior To Purging and Sampling)
DEPTH OF PUMP INTAKE [FT BGS]: 19.6

LNAPL: ND **DNAPL:** ND **OTHER OBSERVATIONS:**

SECTION 2 – SAMPLING EQUIPMENT

CONTROL BOX: QED MP-10
TUBING TYPE: 1/4" Poly (Water) , 1/8" Poly (Air)

WATER QUALITY METER: YSI Pro-DSS
WATER LEVEL METER: PI Mini (Red)

PUMP TYPE: ¾" Bladder
PURGE GAS: Air

CONTROL BOX DISCHARGE RATE: 7
CONTROL BOX REFILL RATE: 3

STABILIZED PUMP RATE (ml/min): ~65
STABILIZED DRAWDOWN WATER LEVEL [FT]: 16.98

SECTION 3 – WATER QUALITY DATA MONITORING

Time	Pumping Rate (ml/min)	Water Level (ft) (<0.33 ft)	DO (mg/L) (±10%)	ORP (mv) (±10 mV)	Turbidity (NTU) (±10 NTUs, if >10 NTU)	Conductivity (mS/cm) (±3%)	pH (±0.1)	Temp. (C^0) (±10%)	Total Vol. Pumped (ml)
12:19	65		40.9	112.8	10178.77	1.784	7.31	101.1	1800
12:26	70		5.12	118.1	17060.16	1.779	7.35	10.3	2300
12:33	70		5.47	121.6	2108.67	1.789	7.38	10.4	2800
12:41	65	17.14	5.49		64.69	1.821	7.42	10.3	3300
12:50	55	16.98	5.87		44.61	1.836	7.38	10.5	3800
12:58	65	16.98	6.34		53.32	1.846	7.41	10.5	4300
13:08	50	16.98	6.46		59.98	1.853	7.42	10.4	4800
13:14	85	16.98	6.76	120.6	40.73	1.857	7.42	10.4	5300
13:22	65	16.98	6.80	112.1	30.43	1.856	7.45	10.3	5800
13:30	65	16.98	6.81	117.0	36.78	1.858	7.45	10.3	6300

SAMPLE OBSERVATIONS: Turbid at start, then clear

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS

SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
123 - MW-G	3-13-19 / 13:32	Bladder Pump	TCL & CP-51 VOCs & TICs 8260

DAY ENVIRONMENTAL, INC.
LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG
WELL MW-I

SECTION 1 - SITE AND WELL INFORMATION

SITE LOCATION 962, 966, 972-974 E. Main St, Rochester, NY **JOB #** 5491R-18

PROJECT NAME: Remedial Investigation **DATE:** 3/15/19

SAMPLE COLLECTOR(S): H. Miller **WEATHER:** 40°F, clear

PID READING IN WELL HEADSPACE (PPM): 375.7 **MEASURING POINT (for water levels):** Top of Casing

CASING TYPE: PVC **WELL DIAMETER (INCHES):** 2

SCREENED INTERVAL [FT BGS]: 7.1-17.1 **INITIAL WATER LEVEL (SWL) [FT]:** SWL / Date Measured 8.90 / 3-15-19

WELL DEPTH [FT BGS]: 17.1 **DEPTH OF PUMP INTAKE [FT BGS]:** 13.0
(Do NOT Measure Well depth Prior To Purging and Sampling)

LNAPL: ND **DNAPL:** ND **OTHER OBSERVATIONS:**

SECTION 2 – SAMPLING EQUIPMENT

CONTROL BOX: QED MP-10 **TUBING TYPE:** 1/4" Poly (Water) , 1/8" Poly (Air)

WATER QUALITY METER: YSI Pro-DSS **WATER LEVEL METER:** Heron Skinny Dipper

PUMP TYPE: ¾" Bladder **PURGE GAS:** Air

CONTROL BOX DISCHARGE RATE: 3.0 **CONTROL BOX REFILL RATE:** 7.0

STABILIZED PUMP RATE (ml/min): 90 **STABILIZED DRAWDOWN WATER LEVEL [FT]:** 8.94

SECTION 3 – WATER QUALITY DATA MONITORING

Time	Pumping Rate (ml/min)	Water Level (ft) (<0.33 ft)	DO (mg/L) (±10%)	ORP (mv) (±10 mV)	Turbidity (NTU) (±10 NTUs, if >10 NTU)	Conductivity (mS/cm) (±3%)	pH (±0.1)	Temp. (C^0) (±10%)	Total Vol. Pumped (ml)
9:48	90	8.94	0.62	-90.8	12.50	0.891	6.71	18.3	750
9:53	90	8.94	0.35	-109.3	11.40	0.917	6.68	18.1	1,200
9:57	90	8.94	0.28	-119.0	9.94	0.932	6.68	18.0	1,600
10:02	90	8.94	0.24	-123.4	10.64	0.957	6.69	18.0	2,000
10:06	90	8.94	0.22	-127.8	12.11	0.986	6.69	18.0	2,400
10:11	90	8.94	0.19	-130.4	14.04	1.018	6.70	18.1	2,800
10:15	90	8.94	0.18	-132.8	16.71	1.044	6.70	18.1	3,200
10:19	90	8.94	0.17	-134.3	15.23	1.073	6.70	18.1	3,600

SAMPLE OBSERVATIONS:

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS

SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
135 - MW-I	3-15-19 / 10:20	Bladder Pump	TCL & CP-51 VOCs & TICs 8260 Cyanide

DAY ENVIRONMENTAL, INC.
LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG
WELL MW-J

SECTION 1 - SITE AND WELL INFORMATION

SITE LOCATION 962, 966, 972-974 E. Main St, Rochester, NY **JOB #** 5491R-18

PROJECT NAME: Remedial Investigation **DATE:** 3/14/19

SAMPLE COLLECTOR(S): H. McLennan **WEATHER:** 60°F, slightly cloudy

PID READING IN WELL HEADSPACE (PPM): 286.5 **MEASURING POINT (for water levels):** Top of Casing

CASING TYPE: PVC **WELL DIAMETER (INCHES):** 1

SCREENED INTERVAL [FT BGS]: 13.5-23.5 **INITIAL WATER LEVEL (SWL) [FT]:** SWL / Date Measured 15.47 / 3-14-19

WELL DEPTH [FT BGS]: 23.5 **DEPTH OF PUMP INTAKE [FT BGS]:** 19.49
(Do NOT Measure Well depth Prior To Purging and Sampling)

LNAPL: ND **DNAPL:** ND **OTHER OBSERVATIONS:** Slightly turbid

SECTION 2 – SAMPLING EQUIPMENT

CONTROL BOX: QED MP-10 **TUBING TYPE:** 1/4” Poly (Water) , 1/8” Poly (Air)

WATER QUALITY METER: YSI Pro-DSS **WATER LEVEL METER:** Heron H. Oil

PUMP TYPE: ¾” Bladder **PURGE GAS:** Air

CONTROL BOX DISCHARGE RATE: 4 **CONTROL BOX REFILL RATE:** 2

STABILIZED PUMP RATE (ml/min): 100 **STABILIZED DRAWDOWN WATER LEVEL [FT]:** 15.45

SECTION 3 – WATER QUALITY DATA MONITORING

Time	Pumping Rate (ml/min)	Water Level (ft) (<0.33 ft)	DO (mg/L) (±10%)	ORP (mv) (±10 mV)	Turbidity (NTU) (±10 NTUs, if >10 NTU)	Conductivity (mS/cm) (±3%)	pH (±0.1)	Temp. (C^0) (±10%)	Total Vol. Pumped (ml)
15:24	100	15.51	9.33	68.2	34220.11	0.540	8.16	11.7	2000
15:29	100	15.45	9.45	61.0	24210.13	0.527	8.07	11.2	2500
15:34	90	15.45	9.53	63.6	118.22	0.528	8.05	11.2	2950
15:42	50	15.45	9.64	68.3	13200.61	0.536	8.04	11.2	3350
15:48	100	15.45	9.72	59.9	116.73	0.541	8.04	11.3	3750
15:53	100	15.45	9.77	68.4	118.32	0.545	8.05	11.2	4150
16:00	100	15.45	9.84	71.9	114.27	0.549	8.05	11.1	4450

SAMPLE OBSERVATIONS:

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS

SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
129 - MW-J	3-14-19 / 16:03	Bladder Pump	TCL & CP-51 VOCs & TICs 8260 TCL & CP-51 SVOCs & TICs 8270 TAL Metals Cyanide

DAY ENVIRONMENTAL, INC.
LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG
WELL MW-K

SECTION 1 - SITE AND WELL INFORMATION

SITE LOCATION 962, 966, 972-974 E. Main St, Rochester, NY **JOB #** 5491R-18

PROJECT NAME: Remedial Investigation **DATE:** 3/15/19

SAMPLE COLLECTOR(S): H. McLennan **WEATHER:** 45°F

PID READING IN WELL HEADSPACE (PPM): 477.0 **MEASURING POINT (for water levels):** Top of Casing

CASING TYPE: PVC **WELL DIAMETER (INCHES):** 2

SCREENED INTERVAL [FT BGS]: 8-18 **INITIAL WATER LEVEL (SWL) [FT]:** SWL / Date Measured 9.66 / 3-15-19

WELL DEPTH [FT BGS]: 18 **DEPTH OF PUMP INTAKE [FT BGS]:** 13.83
(Do NOT Measure Well depth Prior To Purging and Sampling)

LNAPL: ND **DNAPL:** ND **OTHER OBSERVATIONS:**

SECTION 2 – SAMPLING EQUIPMENT

CONTROL BOX: QED MP-10 **TUBING TYPE:** 1/4” Poly (Water) , 1/8” Poly (Air)

WATER QUALITY METER: YSI Pro-DSS **WATER LEVEL METER:** Heron H. Oil

PUMP TYPE: ¾” Bladder **PURGE GAS:** Air

CONTROL BOX DISCHARGE RATE: 3.5 **CONTROL BOX REFILL RATE:** 10

STABILIZED PUMP RATE (ml/min): 30.40 **STABILIZED DRAWDOWN WATER LEVEL [FT]:** 10.4

SECTION 3 – WATER QUALITY DATA MONITORING

Time	Pumping Rate (ml/min)	Water Level (ft) (<0.33 ft)	DO (mg/L) (±10%)	ORP (mv) (±10 mV)	Turbidity (NTU) (±10 NTUs, if >10 NTU)	Conductivity (mS/cm) (±3%)	pH (±0.1)	Temp. (C^0) (±10%)	Total Vol. Pumped (ml)
8:54		10.20	3.08	158.7	11.5	1.370	6.98	21.6	1200
9:01	57	10.30	3.06	157.3	5.8	1.339	6.96	21.6	1600
9:08	57	10.40	2.87	157.2	3.9	1.332	6.96	21.6	2000
9:20	40	10.40	2.59	157.3	3.6	1.336	6.96	24.9	2450
9:33	30	10.40	2.34	158.2	3.2	1.346	6.95	22.3	2850
	SAMPLE OBSERVATIONS:								

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS

SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
136 - MW-K	3-15-19 / 10:37	Bladder Pump	TCL & CP-51 VOCs & TICs 8260 TCL & CP-51 SVOCs & TICs 8270 TAL Metals Cyanide

DAY ENVIRONMENTAL, INC.
LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG
WELL MW-L

SECTION 1 - SITE AND WELL INFORMATION

SITE LOCATION 962, 966, 972-974 E. Main St, Rochester, NY **JOB #** 5491R-18

PROJECT NAME: Remedial Investigation **DATE:** 3/14/19

SAMPLE COLLECTOR(S): H. McLennan **WEATHER:** 50°F, cloudy

PID READING IN WELL HEADSPACE (PPM): 42.1

MEASURING POINT (for water levels): Top of Casing

CASING TYPE: PVC

WELL DIAMETER (INCHES): 2

SCREENED INTERVAL [FT BGS]: 8-18

INITIAL WATER LEVEL (SWL) [FT]: SWL / Date Measured 12.57 / 3-14-19

WELL DEPTH [FT BGS]: 18
(Do NOT Measure Well depth Prior To Purging and Sampling)

DEPTH OF PUMP INTAKE [FT BGS]: 15.29

LNAPL: ND **DNAPL:** ND **OTHER OBSERVATIONS:** Very clear

SECTION 2 – SAMPLING EQUIPMENT

CONTROL BOX: QED MP-10 **TUBING TYPE:** 1/4” Poly (Water) , 1/8” Poly (Air)

WATER QUALITY METER: YSI Pro-DSS **WATER LEVEL METER:** Heron H. Oil

PUMP TYPE: ¾” Bladder **PURGE GAS:** Air

CONTROL BOX DISCHARGE RATE: 10 **CONTROL BOX REFILL RATE:** 5

STABILIZED PUMP RATE (ml/min): 40 **STABILIZED DRAWDOWN WATER LEVEL [FT]:** 12.75

SECTION 3 – WATER QUALITY DATA MONITORING

Time	Pumping Rate (ml/min)	Water Level (ft) (<0.33 ft)	DO (mg/L) (±10%)	ORP (mv) (±10 mV)	Turbidity (NTU) (±10 NTUs, if >10 NTU)	Conductivity (mS/cm) (±3%)	pH (±0.1)	Temp. (C^0) (±10%)	Total Vol. Pumped (ml)
9:26	40	12.88	0.32	184.7	28.13	6.080	7.02	18.0	1500
9:36	50	12.82	0.32	186.4	16.45	5.996	7.01	18.1	2000
9:49	40	12.75	0.32	168.3	12.66	5.999	7.02	18.2	2500
10:00	40	12.75	0.30	174.9	9.44	6.038	7.01	18.2	2900
10:10	40	12.75	0.28	176.9	6.42	6.057	7.00	18.3	3300

SAMPLE OBSERVATIONS:

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS

SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
126 - MW-L	3-14-19 / 10:15	Bladder Pump	TCL & CP-51 VOCs & TICs 8260 TCL & CP-51 SVOCs & TICs 8270 TAL Metals Cyanide

DAY ENVIRONMENTAL, INC.
LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG
WELL MW-M

SECTION 1 - SITE AND WELL INFORMATION

SITE LOCATION 962, 966, 972-974 E. Main St, Rochester, NY **JOB #** 5491R-18

PROJECT NAME: Remedial Investigation **DATE:** 3/15/19

SAMPLE COLLECTOR(S): H. McLennan, H. Miller **WEATHER:** 45°F

PID READING IN WELL HEADSPACE (PPM): 387.7 **MEASURING POINT (for water levels):** Top of Casing

CASING TYPE: PVC **WELL DIAMETER (INCHES):** 2

SCREENED INTERVAL [FT BGS]: 8-18 **INITIAL WATER LEVEL (SWL) [FT]:** SWL / Date Measured: 10.13 / 3-15-19

WELL DEPTH [FT BGS]: 18 **DEPTH OF PUMP INTAKE [FT BGS]:** 14.07
(Do NOT Measure Well depth Prior To Purging and Sampling)

LNAPL: ND **DNAPL:** ND **OTHER OBSERVATIONS:**

SECTION 2 – SAMPLING EQUIPMENT

CONTROL BOX: QED MP-10 **TUBING TYPE:** 1/4" Poly (Water) , 1/8" Poly (Air)

WATER QUALITY METER: YSI Pro-DSS **WATER LEVEL METER:** Heron H. Oil

PUMP TYPE: ¾" Bladder **PURGE GAS:** Air

CONTROL BOX DISCHARGE RATE: 3.0 **CONTROL BOX REFILL RATE:** 7.0

STABILIZED PUMP RATE (ml/min): 80 **STABILIZED DRAWDOWN WATER LEVEL [FT]:** 10.20

SECTION 3 – WATER QUALITY DATA MONITORING

Time	Pumping Rate (ml/min)	Water Level (ft) (<0.33 ft)	DO (mg/L) (±10%)	ORP (mv) (±10 mV)	Turbidity (NTU) (±10 NTUs, if >10 NTU)	Conductivity (mS/cm) (±3%)	pH (±0.1)	Temp. (C^0) (±10%)	Total Vol. Pumped (ml)
11:57	80	10.20	6.80	49.5	48330.36	2.895	7.47	12.5	950
12:07	80	10.20	7.02	60.8	71822.54	2.944	7.47	12.1	1400
12:11	80	10.20	7.14	63.2	73620.66	2.952	7.50	12.3	1800
12:16	80	10.20	7.52	65.6	82159.95	2.951	7.54	12.4	2200
12:21	80	10.20	7.76	67.3	69144.05	2.960	7.57	12.4	2600
12:26	80	10.20	7.88	68.7	77501.02	2.966	7.59	12.5	3000
12:41	80	10.20	6.49	183.1	215.3	3.044	7.70	12.4	3350
12:46	80	10.20	6.78	183.6	220.1	3.039	7.75	12.3	3750
12:51	80	10.20	6.72	184.0	192.7	3.057	7.77	12.2	4150
12:57	80	10.20	6.51	184.2	169.7	3.093	7.78	12.2	4550
13:03	80	10.20	6.43	184.0	153.3	3.119	7.79	12.2	5000
13:08	80	10.20	6.30	183.8	150.0	3.150	7.79	12.1	5400
	SAMPLE OBSERVATIONS:								

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS

SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
137 - MW-M	3-15-19 13:32	Bladder Pump	TCL & CP-51 VOCs & TICs 8260 Cyanide

DAY ENVIRONMENTAL, INC.
LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG
WELL MW-M

SECTION 1 - SITE AND WELL INFORMATION

SITE LOCATION 962, 966, 972-974 E. Main St, Rochester, NY
JOB # 5491R-18
PROJECT NAME: Remedial Investigation
DATE: 3/15/19
SAMPLE COLLECTOR(S): H. McLennan, H. Miller
WEATHER: 45°F

PID READING IN WELL HEADSPACE (PPM): 387.7
MEASURING POINT (for water levels): Top of Casing
CASING TYPE: PVC
WELL DIAMETER (INCHES): 2
SCREENED INTERVAL [FT BGS]: 8-18
INITIAL WATER LEVEL (SWL) [FT]: SWL / Date Measured: 10.13 / 3-15-19
WELL DEPTH [FT BGS]: 18
(Do NOT Measure Well depth Prior To Purging and Sampling)
DEPTH OF PUMP INTAKE [FT BGS]: 14.07
LNAPL: ND **DNAPL:** ND
OTHER OBSERVATIONS:

SECTION 2 – SAMPLING EQUIPMENT

CONTROL BOX: QED MP-10
TUBING TYPE: 1/4” Poly (Water) , 1/8” Poly (Air)
WATER QUALITY METER: YSI Pro-DSS
WATER LEVEL METER: Heron H. Oil
PUMP TYPE: ¾” Bladder
PURGE GAS: Air
CONTROL BOX DISCHARGE RATE: 3.0
CONTROL BOX REFILL RATE: 7.0
STABILIZED PUMP RATE (ml/min): 80
STABILIZED DRAWDOWN WATER LEVEL [FT]: 10.20

SECTION 3 – WATER QUALITY DATA MONITORING

Time	Pumping Rate (ml/min)	Water Level (ft) (<0.33 ft)	DO (mg/L) (±10%)	ORP (mv) (±10 mV)	Turbidity (NTU) (±10 NTUs, if >10 NTU)	Conductivity (mS/cm) (±3%)	pH (±0.1)	Temp. (C^0) (±10%)	Total Vol. Pumped (ml)
13:14	80	10.20	6.48	183.3	130.0	3.143	7.81	12.1	5800
13:19	80	10.20	6.61	182.9	112.7	3.146	7.83	12.2	6200
13:24	80	10.20	6.53	182.3	110.3	3.164	7.83	12.2	6600
13:29	80	10.20	6.64	181.3	104.3	3.164	7.85	12.3	7000

SAMPLE OBSERVATIONS:

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS

SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
137 - MW-M	3-15-19 13:32	Bladder Pump	TCL & CP-51 VOCs & TICs 8260 Cyanide

DAY ENVIRONMENTAL, INC.
LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG
WELL MW-N

SECTION 1 - SITE AND WELL INFORMATION

SITE LOCATION 962, 966, 972-974 E. Main St, Rochester, NY **JOB #** 5491R-18

PROJECT NAME: Remedial Investigation **DATE:** 3/15/19

SAMPLE COLLECTOR(S): H. McLennan, H. Miller **WEATHER:** 45°F

PID READING IN WELL HEADSPACE (PPM): 15000+ **MEASURING POINT (for water levels):** Top of Casing

CASING TYPE: PVC **WELL DIAMETER (INCHES):** 2

SCREENED INTERVAL [FT BGS]: 8-18 **INITIAL WATER LEVEL (SWL) [FT]:** SWL / Date Measured 905 / 3-15-19

WELL DEPTH [FT BGS]: 18 **DEPTH OF PUMP INTAKE [FT BGS]:** 11.8
(Do NOT Measure Well depth Prior To Purging and Sampling)

LNAPL: ND **DNAPL:** ND **OTHER OBSERVATIONS:** -

SECTION 2 – SAMPLING EQUIPMENT

CONTROL BOX: QED MP-10 **TUBING TYPE:** 1/4” Poly (Water) , 1/8” Poly (Air)

WATER QUALITY METER: YSI Pro-DSS **WATER LEVEL METER:** Heron H. Oil

PUMP TYPE: ¾” Bladder **PURGE GAS:** Air

CONTROL BOX DISCHARGE RATE: 5.0 **CONTROL BOX REFILL RATE:** 10.0

STABILIZED PUMP RATE (ml/min): 50 **STABILIZED DRAWDOWN WATER LEVEL [FT]:** 9.28

SECTION 3 – WATER QUALITY DATA MONITORING

Time	Pumping Rate (ml/min)	Water Level (ft) (<0.33 ft)	DO (mg/L) (±10%)	ORP (mv) (±10 mV)	Turbidity (NTU) (±10 NTUs, if >10 NTU)	Conductivity (mS/cm) (±3%)	pH (±0.1)	Temp. (C^0) (±10%)	Total Vol. Pumped (ml)
14:44	50	9.28	0.61	192.9	4.6	5.467	7.20	19.1	450
14:51	50	9.28	0.24	185.0	3.4	5.486	7.20	19.0	900
14:58	50	9.28	0.13	160.4	4.7	5.481	7.20	19.0	1300
15:06	50	9.28	0.10	132.1	7.1	5.467	7.20	19.1	1700
15:13	50	9.28	0.08	40.0	7.8	5.444	7.19	19.1	2000
15:20	50	9.28	0.07	56.5	8.3	5.417	7.19	19.1	2400
15:28	50	9.28	0.06	28.3	9.2	5.391	7.18	19.2	2800
15:36	50	9.28	0.06	9.0	9.9	5.367	7.18	19.2	3200
15:43	50	9.28	0.06	-6.7	11.4	5.357	7.18	19.2	3600
15:51	50	9.28	0.07	-17.9	13.7	5.350	7.18	19.2	4000
15:59	50	9.28	0.06	-28.0	15.6	5.343	7.17	19.2	4400

SAMPLE OBSERVATIONS:

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS

SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
139 - MW-N	3-15-19 / 16:01	Bladder Pump	TCL & CP-51 VOCs & TICs 8260 Cyanide

DAY ENVIRONMENTAL, INC.
LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG
WELL BRMW-1

SECTION 1 - SITE AND WELL INFORMATION

SITE LOCATION 962, 966, 972-974 E. Main St, Rochester, NY **JOB #** 5491R-18

PROJECT NAME: Remedial Investigation **DATE:** 3/13/19

SAMPLE COLLECTOR(S): H. Miller, C. Demian **WEATHER:** 30°F, slightly cloudy

PID READING IN WELL HEADSPACE (PPM): 4.3 **MEASURING POINT (for water levels):** Top of Casing

CASING TYPE: PVC **WELL DIAMETER (INCHES):** 3.875

SCREENED INTERVAL [FT BGS]: 28-48 **INITIAL WATER LEVEL (SWL) [FT]:** SWL / Date Measured 26.41 / 13-13-19

WELL DEPTH [FT BGS]: 48 **DEPTH OF PUMP INTAKE [FT BGS]:** 38
(Do NOT Measure Well depth Prior To Purging and Sampling)

LNAPL: ND **DNAPL:** ND **OTHER OBSERVATIONS:** -

SECTION 2 – SAMPLING EQUIPMENT

CONTROL BOX: QED MP-10 **TUBING TYPE:** 1/4” Poly (Water) , 1/8” Poly (Air)

WATER QUALITY METER: YSI Pro-DSS **WATER LEVEL METER:** Heron H. Oil

PUMP TYPE: ¾” Bladder **PURGE GAS:** Air

CONTROL BOX DISCHARGE RATE: 2.0 **CONTROL BOX REFILL RATE:** 10.0

STABILIZED PUMP RATE (ml/min): 70 **STABILIZED DRAWDOWN WATER LEVEL [FT]:** 26.42

SECTION 3 – WATER QUALITY DATA MONITORING

Time	Pumping Rate (ml/min)	Water Level (ft) (<0.33 ft)	DO (mg/L) (±10%)	ORP (mv) (±10 mV)	Turbidity (NTU) (±10 NTUs, if >10 NTU)	Conductivity (mS/cm) (±3%)	pH (±0.1)	Temp. (C^0) (±10%)	Total Vol. Pumped (ml)
12:05	90	26.46	0.66	-71.7	3.6	3.65	7.62	9.7	3000
12:15	90	26.47	0..62	-73.2	4.1	3.66	7.62	9.7	3900
12:25	90	26.44	0.59	-74.9	3.9	3.66	7.62	9.8	4800
12:35	90	26.44	0.36	-90.2	3.6	3.62	7.63	9.8	5700
12:42	70	26.45	0.31	-98.6	3.1	3.65	7.62	10.0	6190
12:52	70	26.45	0.26	-101.6	2.8	3.66	7.63	9.7	6890
13:00	70	26.45	0.19	-95.2	2.8	3.67	7.62	9.7	7450
13:08	70	26.45	0.19	-104.7	2.6	3.671	7.62	9.6	8010
13:16	70	26.42	0.14	-110.8	2.4	3.669	7.63	9.4	8570
13:22	70	26.42	0.13	-112.2	2.4	3.655	7.62	9.4	9130
13:30	70	26.42	0.12	-114.0	2.3	3.663	7.63	9.4	9690
	SAMPLE OBSERVATIONS:								

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS

SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
122 - BRMW-1	3-13-19 / 13:33	Bladder Pump	TCL & CP-51 VOCs & TICs 8260

DAY ENVIRONMENTAL, INC.
LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG
WELL BRMW-2

SECTION 1 - SITE AND WELL INFORMATION

SITE LOCATION 962, 966, 972-974 E. Main St, Rochester, NY **JOB #** 5491R-18

PROJECT NAME: Remedial Investigation **DATE:** 3/13/19

SAMPLE COLLECTOR(S): H. McLennan **WEATHER:** 40°F, cloudy

PID READING IN WELL HEADSPACE (PPM): 0.4

MEASURING POINT (for water levels): Top of Casing

CASING TYPE: PVC

WELL DIAMETER (INCHES): 3.875

SCREENED INTERVAL [FT BGS]: 18.5-38.6

INITIAL WATER LEVEL (SWL) [FT]: SWL / Date Measured: 15.48 / 3-13-19

WELL DEPTH [FT BGS]: 38.6
(Do NOT Measure Well depth Prior To Purging and Sampling)

DEPTH OF PUMP INTAKE [FT BGS]: 28.55

LNAPL: ND **DNAPL:** ND **OTHER OBSERVATIONS:**

SECTION 2 – SAMPLING EQUIPMENT

CONTROL BOX: QED MP-10 **TUBING TYPE:** 1/4” Poly (Water) , 1/8” Poly (Air)

WATER QUALITY METER: YSI Pro-DSS **WATER LEVEL METER:** Heron

PUMP TYPE: ¾” Bladder **PURGE GAS:** Air

CONTROL BOX DISCHARGE RATE: **CONTROL BOX REFILL RATE:** 2

STABILIZED PUMP RATE (ml/min): **STABILIZED DRAWDOWN WATER LEVEL [FT]:** 15.45

SECTION 3 – WATER QUALITY DATA MONITORING

Time	Pumping Rate (ml/min)	Water Level (ft) (<0.33 ft)	DO (mg/L) (±10%)	ORP (mv) (±10 mV)	Turbidity (NTU) (±10 NTUs, if >10 NTU)	Conductivity (mS/cm) (±3%)	pH (±0.1)	Temp. (C^0) (±10%)	Total Vol. Pumped (ml)
15:04		15.45	0.87	94.2	13.40	4.547	6.97	12.2	1000
15:07	160	15.45	0.36	48.3	3.28	4.615	6.87	12.3	1500
15:11	125	15.45	0.29	40.8	2.65	4.619	6.83	12.2	2000
15:16	100	15.45	0.24	38.9	4.77	4.625	6.86	12.4	2500
15:21	100	15.46	0.23	40.7	3.05	4.648	6.83	12.0	3000
15:25	125	15.45	0.20	37.0	4.12	4.636	6.85	12.4	3500
15:30	100	15.45	0.18	37.5	5.23	4.633	6.85	12.4	4000
15:34	125	15.45	0.19	37.2	4.53	4.627	6.85	12.1	4500

SAMPLE OBSERVATIONS:

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS

SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
125 - BRMW-2	3-13-19 / 15:38	Bladder Pump	TCL & CP-51 VOCs & TICs 8260

DAY ENVIRONMENTAL, INC.
MONITORING WELL SAMPLING LOG

WELL MW-A

SECTION 1 - SITE INFORMATION

SITE LOCATION: RSTW, 962 E. Main St. **JOB #:** 5491R-18

Rochester, NY **DATE :** 4/4/2019

SAMPLE COLLECTOR(S): H. McLennan/C. Demian

WEATHER CONDITIONS: 36°F, Cloudy **PID IN WELL (PPM):** 1497 **LNAPL** ND **DNAPL** ND

SECTION 2 - PURGE INFORMATION

DEPTH OF WELL [FT]: 14.50 (MEASURED FROM TOP OF CASING - T.O.C.)

STATIC WATER LEVEL (SWL) [FT]: 9.43 (MEASURED FROM T.O.C.)

T.O.C. TO GROUND SURFACE [FT]: 0.45

THICKNESS OF WATER COLUMN [FT]: 5.07 (DEPTH OF WELL - SWL)

CALCULATED VOL. OF H_2O PER WELL CASING [GAL]: 0.21 **CASING DIA.:** 1”

CALCULATIONS:

CASING DIA. (FT)	WELL CONSTANT(GAL/FT)
¾” (0.0625)	0.023
1” (0.0833)	0.041
1¼” (0.1041)	0.063
2” (0.1667)	0.1632
3” (0.250)	0.380
4” (0.3333)	0.6528
4½” (0.375)	0.826
6” (0.5000)	1.4688
8” (0.666)	2.611

CALCULATIONS
VOL. OF H_2O IN CASING = DEPTH OF WATER COLUMN X WELL CONSTANT

CALCULATED PURGE VOLUME [GAL]: 0.62 (3 TIMES CASING VOLUME)

ACTUAL VOLUME PURGED [GAL]: 2.

PURGE METHOD: Peristaltic Pump **PURGE START:** 10:54 **END:** 11:00

SECTION 3 - SAMPLE IDENTIFICATION AND TEST PARAMETERS

SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
155-MW-A	4-5-2019 / 11:02	Peristaltic Pump	PFAS, 1,4-dioxane

SECTION 4 - WATER QUALITY DATA

SWL (FT)	TEMP (°C)	pH	CONDUCTIVITY (uS/m)	TURBIDITY (NTU)	DO (mg/L)	ORP (mV)	VISUAL
9.85	10.3	6.53	440	NM	NM	-22	Turbid

N/M = Not Measured
ND = Not Detected

DAY ENVIRONMENTAL, INC.
MONITORING WELL SAMPLING LOG

WELL MW-E

SECTION 1 - SITE INFORMATION

SITE LOCATION: RSTW, 962 E. Main St. **JOB #:** 5491R-18

Rochester, NY **DATE :** 4/4/2019

SAMPLE COLLECTOR(S): H. McLennan/C. Demian

WEATHER CONDITIONS: 35°F, Cloudy, slight wind **PID IN WELL (PPM)**: 0.0 **LNAPL** ND **DNAPL** ND

SECTION 2 - PURGE INFORMATION

DEPTH OF WELL [FT]: 24.72 (MEASURED FROM TOP OF CASING - T.O.C.)

STATIC WATER LEVEL (SWL) [FT]: 18.38 (MEASURED FROM T.O.C.)

T.O.C. TO GROUND SURFACE [FT]: 0.35

THICKNESS OF WATER COLUMN [FT]: 6.34 (DEPTH OF WELL - SWL)

CALCULATED VOL. OF H_2O PER WELL CASING [GAL]: 0.26 **CASING DIA.:** 1”

CALCULATIONS:

CASING DIA. (FT)	WELL CONSTANT(GAL/FT)
¾” (0.0625)	0.023
1” (0.0833)	0.041
1¼” (0.1041)	0.063
2” (0.1667)	0.1632
3” (0.250)	0.380
4” (0.3333)	0.6528
4½” (0.375)	0.826
6” (0.5000)	1.4688
8” (0.666)	2.611

CALCULATIONS
VOL. OF H_2O IN CASING = DEPTH OF WATER COLUMN X WELL CONSTANT

CALCULATED PURGE VOLUME [GAL]: 0.78 (3 TIMES CASING VOLUME)

ACTUAL VOLUME PURGED [GAL]: 1.5

PURGE METHOD: Peristaltic Pump **PURGE START:** 9:45 **END:** 9:55

SECTION 3 - SAMPLE IDENTIFICATION AND TEST PARAMETERS

SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
156-MW-E	4-5-2019 / 9:55	Peristaltic Pump	PFAS, 1,4-dioxane

SECTION 4 - WATER QUALITY DATA

SWL (FT)	TEMP (°C)	pH	CONDUCTIVITY (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	ORP (mV)	VISUAL
18.42	13.2	7.84	2.40	NM	NM	-41	Slightly Turbid

N/M = Not Measured
ND = Not Detected

DAY ENVIRONMENTAL, INC.
MONITORING WELL SAMPLING LOG

WELL MW-L

SECTION 1 - SITE INFORMATION	
SITE LOCATION: RSTW, 962 E. Main St.	**JOB #:** 5491R-18
Rochester, NY	**DATE :** 4/4/2019
SAMPLE COLLECTOR(S): H. McLennan/C. Demian	
WEATHER CONDITIONS: 36°, Cloudy	**PID IN WELL (PPM)**: 33.1 **LNAPL** ND **DNAPL** ND

SECTION 2 - PURGE INFORMATION

DEPTH OF WELL [FT]: 17.32 (MEASURED FROM TOP OF CASING - T.O.C.)

STATIC WATER LEVEL (SWL) [FT]: 12.95 (MEASURED FROM T.O.C.)

T.O.C. TO GROUND SURFACE [FT]: 0.32

THICKNESS OF WATER COLUMN [FT]: 4.37 (DEPTH OF WELL - SWL)

CALCULATED VOL. OF H_2O PER WELL CASING [GAL]: 0.7 **CASING DIA.:** 2”

CALCULATIONS:

CASING DIA. (FT)	**WELL CONSTANT(GAL/FT)**	**CALCULATIONS**
¾” (0.0625)	0.023	VOL. OF H_2O IN CASING = DEPTH OF WATER COLUMN X WELL CONSTANT
1” (0.0833)	0.041	
1¼” (0.1041)	0.063	
2” (0.1667)	0.1632	
3” (0.250)	0.380	
4” (0.3333)	0.6528	
4½” (0.375)	0.826	
6” (0.5000)	1.4688	
8” (0.666)	2.611	

CALCULATED PURGE VOLUME [GAL]: 2.1 (3 TIMES CASING VOLUME)

ACTUAL VOLUME PURGED [GAL]: 2.0

PURGE METHOD: Peristaltic Pump **PURGE START:** 10:40 **END:** 11:34

SECTION 3 - SAMPLE IDENTIFICATION AND TEST PARAMETERS

SAMPLE ID #	**DATE / TIME**	**SAMPLING METHOD**	**ANALYTICAL SCAN(S)**
157-MW-L	4-5-2019 / 11:48	Peristaltic Pump	PFAS, 1,4-dioxane

SECTION 4 - WATER QUALITY DATA

SWL (FT)	**TEMP (°C)**	**pH**	**CONDUCTIVITY (uS/m)**	**TURBIDITY (NTU)**	**DO (mg/L)**	**ORP (mV)**	**VISUAL**
15.53	19.1	7.21	810	NM	NM	77	Turbid

N/M = Not Measured
ND = Not Detected

DAY ENVIRONMENTAL, INC.

LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG

WELL MW-O

SECTION 1 - SITE AND WELL INFORMATION

SITE LOCATION RSTW

JOB # 5491S-18

PROJECT NAME: RI

DATE: 8/30/19

SAMPLE COLLECTOR(S): H. McLennan

WEATHER: 70°F, Clear

PID READING IN WELL HEADSPACE (PPM): 1116

MEASURING POINT (for water levels): Top of Casing

CASING TYPE: PVC

WELL DIAMETER (INCHES): 1

SCREENED INTERVAL [FT BGS]: 4.5 – 14.5

INITIAL WATER LEVEL (SWL) [FT]: SWL / Date Measured: 8.21 / 8-30-19

WELL DEPTH [FT BGS]: 14.5
(Do NOT Measure Well depth Prior To Purging And Sampling)

DEPTH OF PUMP INTAKE [FT BGS]: 11.4

LNAPL: ND

DNAPL: ND

OTHER OBSERVATIONS: Dropped bailer 1-2”

SECTION 2 – SAMPLING EQUIPMENT

CONTROL BOX: QED MP-10

TUBING TYPE: ¼” Poly (Water), 1/8” Poly (Air)

WATER QUALITY METER: YSI Pro-DSS

WATER LEVEL METER: Heron

PUMP TYPE: ¾” Bladder

PURGE GAS: Air

CONTROL BOX DISCHARGE RATE: 8

CONTROL BOX REFILL RATE: 4

STABILIZED PUMP RATE (ml/min): 60

STABILIZED DRAWDOWN WATER LEVEL [FT]: 8.28

SECTION 3 – WATER QUALITY DATA MONITORING

Time	Pumping Rate (ml/min)	Water Level (ft)	DO (mg/L)	ORP (mv)	Turbidity (NTU)	Conductivity (mS/cm)	pH	Temp. (C^0)	Total Vol. Pumped (ml)
15:23	60	828	0.69	-60.4	558.3	5.205	7.05	21.6	200
15:28	60	8.28	0.20	-68.6	279.3	5.231	7.04	21.4	500
15:34	60	8.28	0.08	-73.8	173.0	5.264	7.05	21.2	800
15:40	60	8.28	0.04	-76.9	132.3	5.271	7.05	21.2	1100
15:45	60	8.28	0.00	-80.0	116.0	5.260	7.06	21.2	1400
15:50	60	8.28	-0.01	-82.2	127.5	5.247	7.06	21.3	1700
15:55	60	8.28	-0.03	-83.8	573.4	5.182	7.07	21.0	2000
16:00	60	8.28	-0.06	-86.4	412.7	5.156	7.07	21.1	2300
16:05	60	8.28	-0.07	-86.3	322.7	5.242	7.06	21.0	2600
16:10	60	8.28	-0.08	-87.2	235.7	5.293	7.06	21.1	5900
16:15	60	8.28	-0.09	-89.0	230.9	5.266	7.06	21.2	3200
16:20	60	828	-0.09	-90.3	230.4	5.259	7.06	21.2	3300

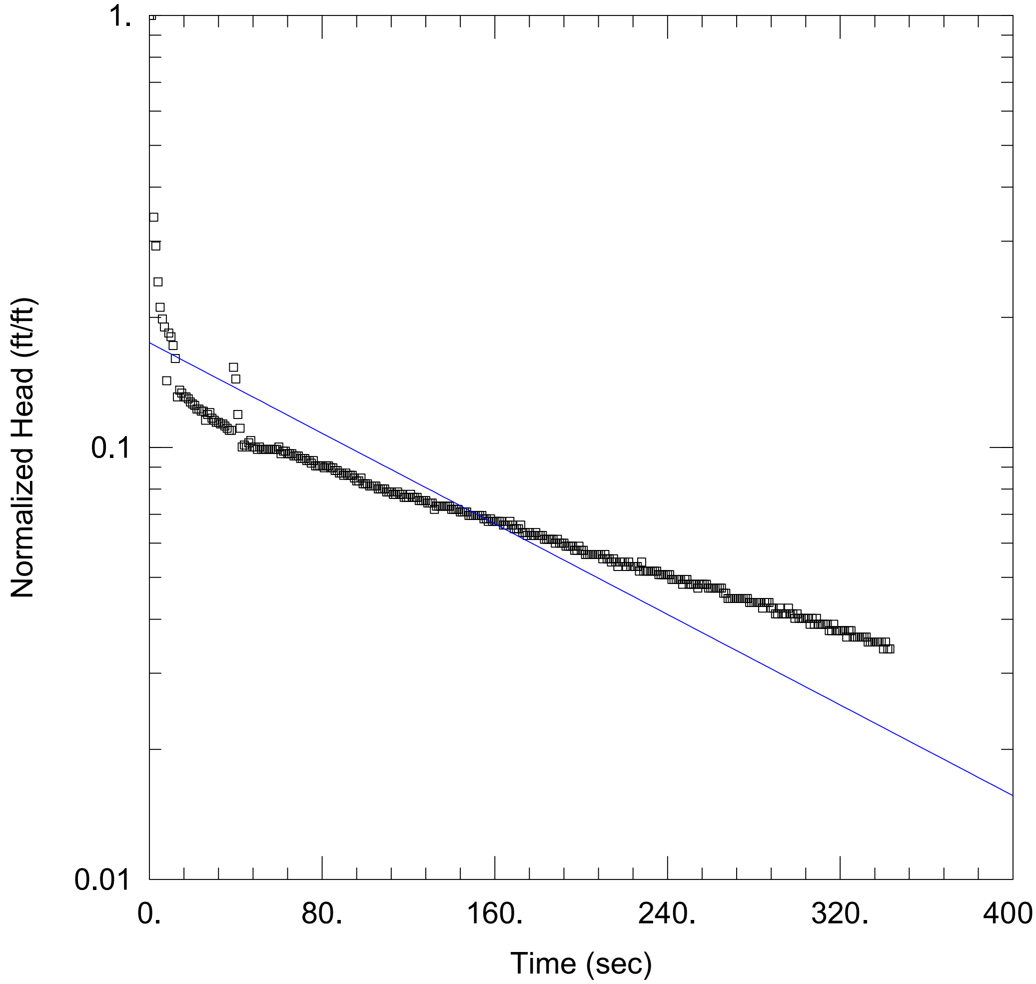
SAMPLE OBSERVATIONS:

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS

SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-O	8-30-19 / 16:22	Bladder Pump	VOCs

APPENDIX E

HYDRAULIC CONDUCTIVITY SLUG TEST GRAPHS



WELL TEST ANALYSIS

Data Set: \...\MW-G Slug In.aqt
Date: 10/15/21
Time: 07:38:54

PROJECT INFORMATION

Company: Day
Client: RSTW
Project: 5491R-18
Location: Rochester
Test Well: MW-G
Test Date: 10/7/2021

AQUIFER DATA

Saturated Thickness: 7.29 ft
Anisotropy Ratio (Kz/Kr): 1.

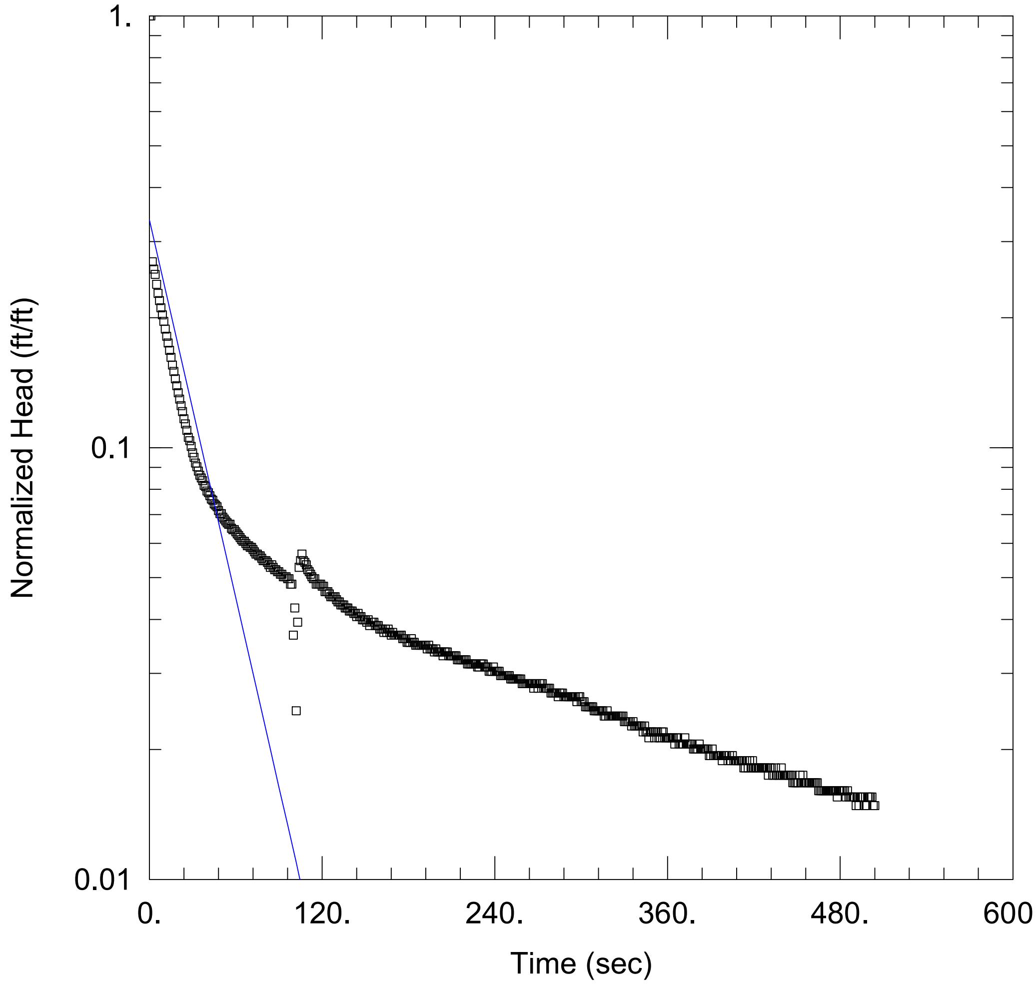
WELL DATA (MW-G)

Initial Displacement: 3.133 ft
Total Well Penetration Depth: 23. ft
Casing Radius: 0.04 ft
Static Water Column Height: 7.29 ft
Screen Length: 10. ft
Well Radius: 0.09 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 3.509E-6 ft/sec
y0 = 0.5473 ft



WELL TEST ANALYSIS

Data Set: \...\MW-G Slug Out.aqt
Date: 10/15/21 Time: 07:40:37

PROJECT INFORMATION

Company: Day
Client: RSTW
Project: 5491R-18
Location: Rochester
Test Well: MW-G
Test Date: 10/7/2021

AQUIFER DATA

Saturated Thickness: 7.29 ft Anisotropy Ratio (Kz/Kr): 1.

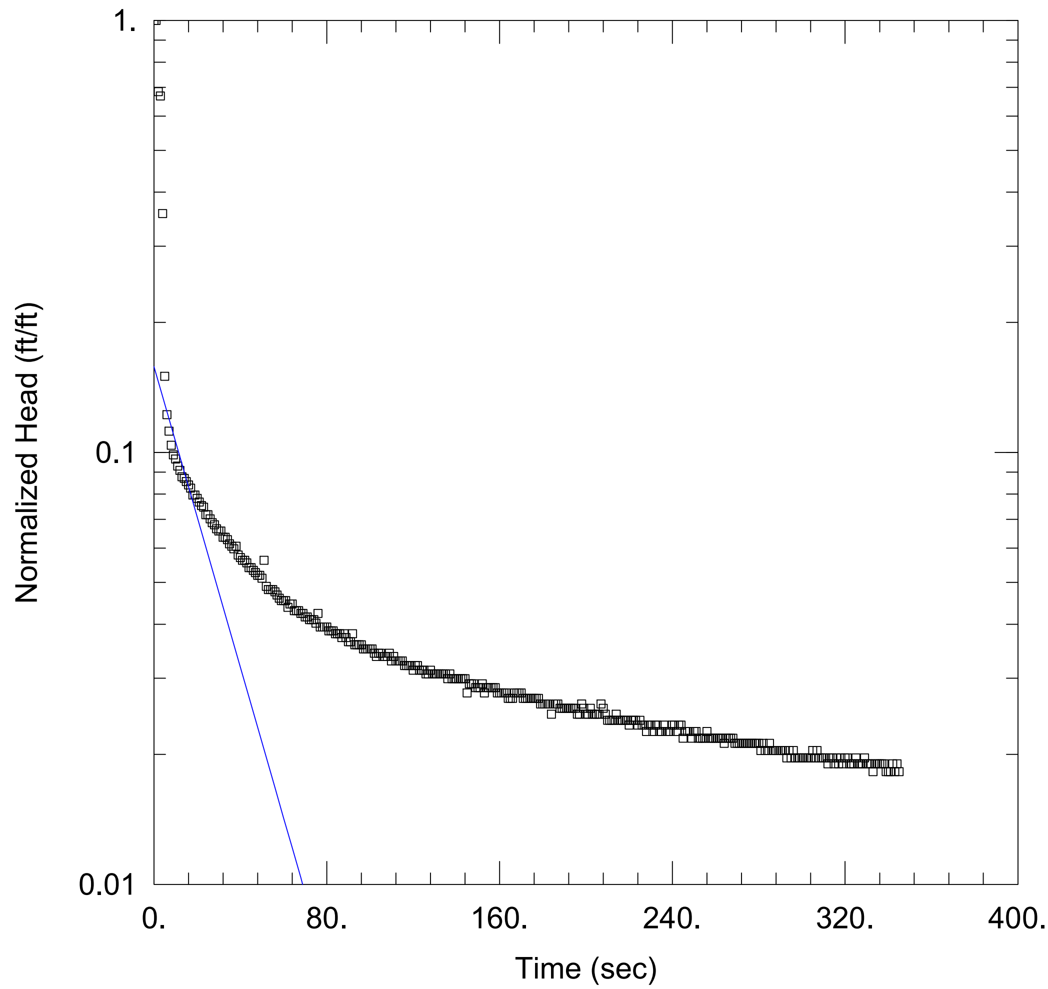
WELL DATA (MW-G)

Initial Displacement: 5.735 ft
Total Well Penetration Depth: 23. ft
Casing Radius: 0.04 ft
Static Water Column Height: 7.29 ft
Screen Length: 10. ft
Well Radius: 0.09 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 1.953E-5 ft/sec y0 = 1.932 ft



WELL TEST ANALYSIS

Data Set: \...\MW-I Slug In.aqt
Date: 10/15/21 Time: 10:58:17

PROJECT INFORMATION

Company: Day
Client: RSTW
Project: 5491R-18
Location: Rochester
Test Well: MW-I
Test Date: 10/7/2021

AQUIFER DATA

Saturated Thickness: 8.52 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-I)

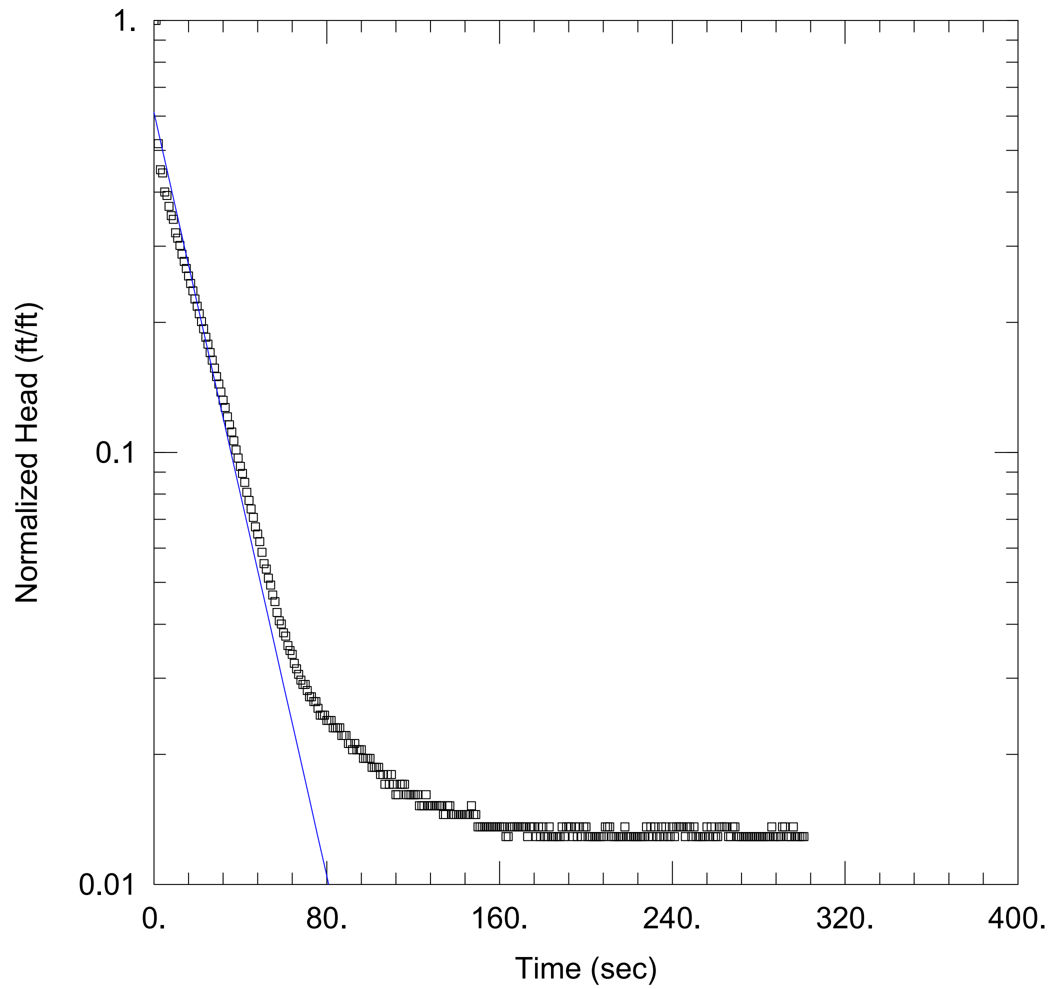
Initial Displacement: 5.047 ft
Total Well Penetration Depth: 17.1 ft
Casing Radius: 0.04 ft

Static Water Column Height: 8.52 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 1.993E-5 ft/sec y0 = 0.7971 ft



WELL TEST ANALYSIS

Data Set: \...\MW-I Slug Out.aqt
Date: 10/14/21 Time: 15:48:36

PROJECT INFORMATION

Company: Day
Client: RSTW
Project: 5491R-18
Location: Rochester
Test Well: MW-I
Test Date: 10/7/2021

AQUIFER DATA

Saturated Thickness: 8.52 ft Anisotropy Ratio (Kz/Kr): 1.

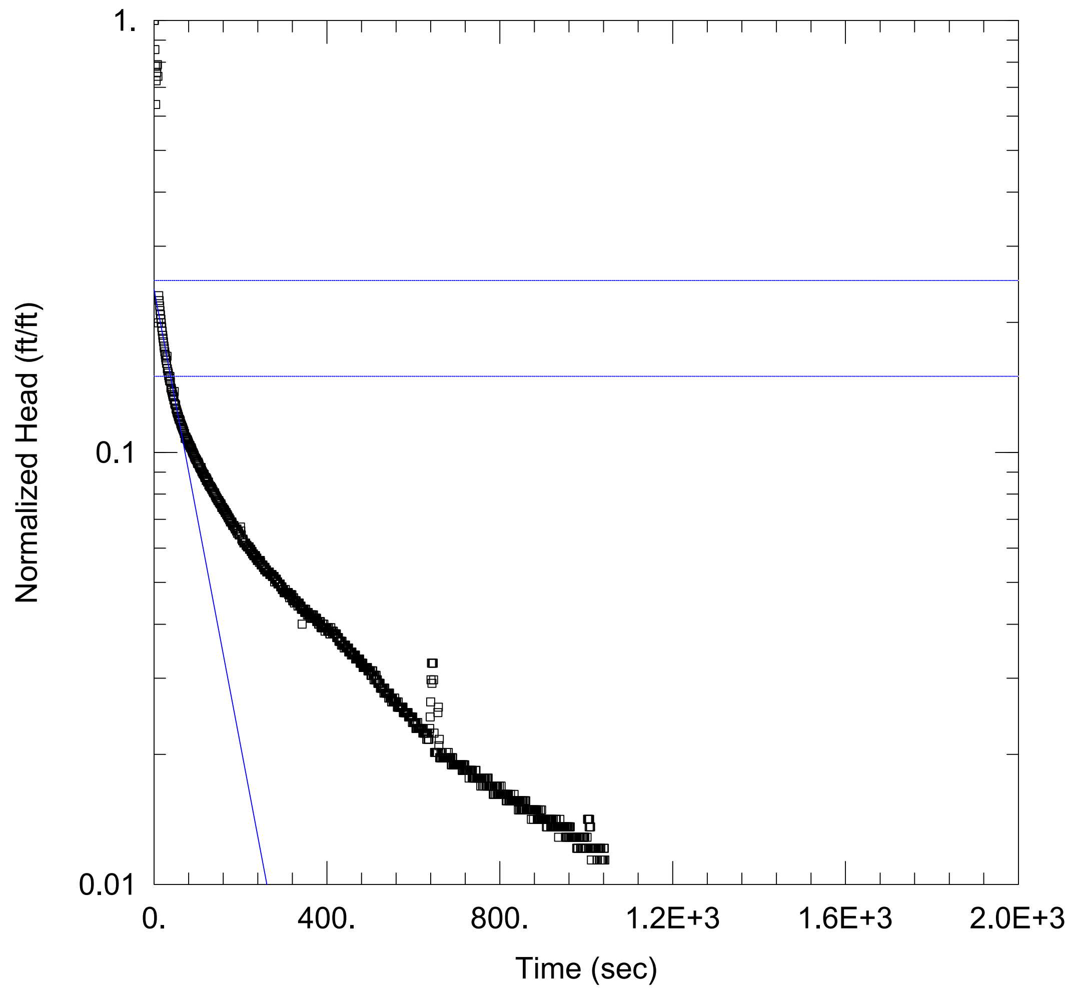
WELL DATA (MW-I)

Initial Displacement: 4.342 ft
Total Well Penetration Depth: 17.1 ft
Casing Radius: 0.04 ft
Static Water Column Height: 8.52 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 2.529E-5 ft/sec y0 = 2.657 ft



WELL TEST ANALYSIS

Data Set: \...\MW-J Slug In.aqt
Date: 10/14/21 Time: 11:19:18

PROJECT INFORMATION

Company: Day
Client: RSTW
Project: 5491R-18
Location: Rochester
Test Well: MW-J
Test Date: 10/6/2021

AQUIFER DATA

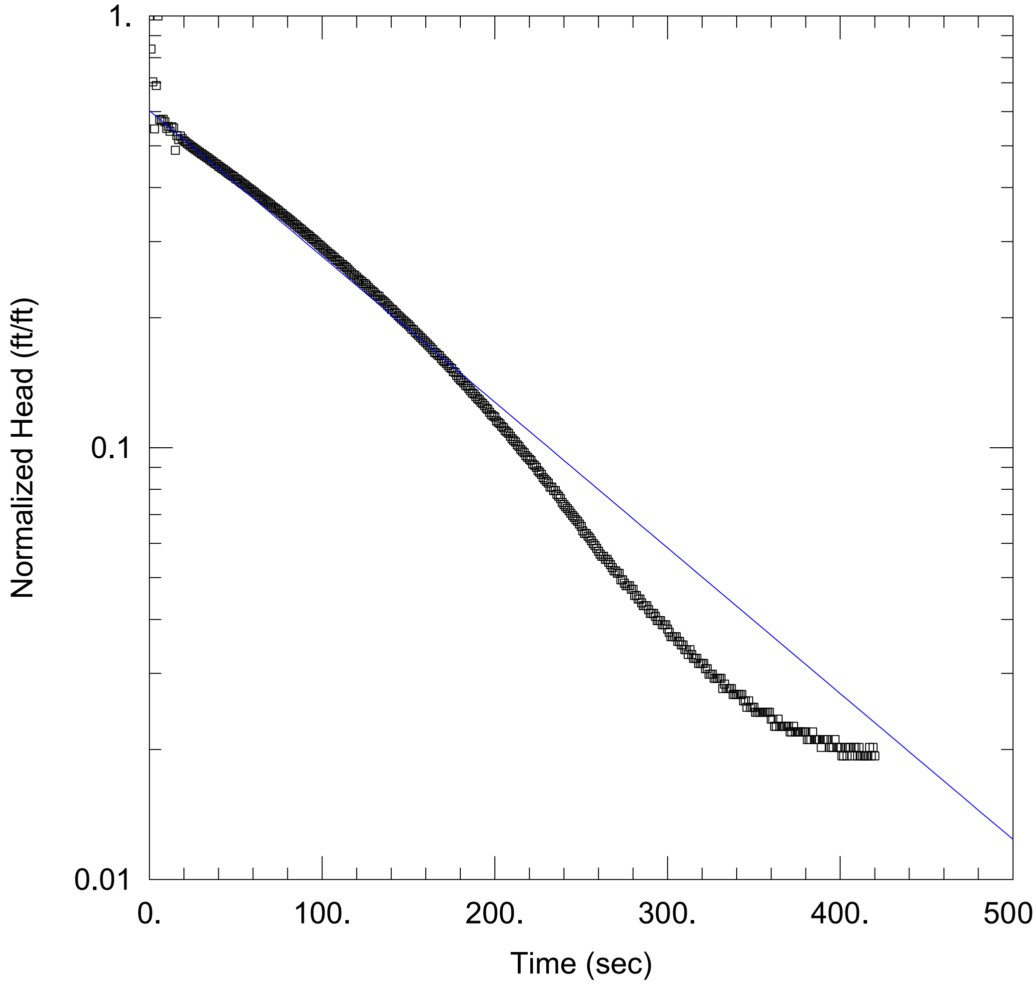
Saturated Thickness: 9.21 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-J)

Initial Displacement: 5.446 ft Static Water Column Height: 9.21 ft
Total Well Penetration Depth: 24.18 ft Screen Length: 10. ft
Casing Radius: 0.08 ft Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev
K = 2.202E-5 ft/sec y0 = 1.299 ft



WELL TEST ANALYSIS

Data Set: \...\MW-J Slug Out.aqt
Date: 10/14/21 Time: 11:47:54

PROJECT INFORMATION

Company: Day
Client: RSTW
Project: 5491R-18
Location: Rochester
Test Well: MW-J
Test Date: 10/6/2021

AQUIFER DATA

Saturated Thickness: 9.21 ft Anisotropy Ratio (Kz/Kr): 1.

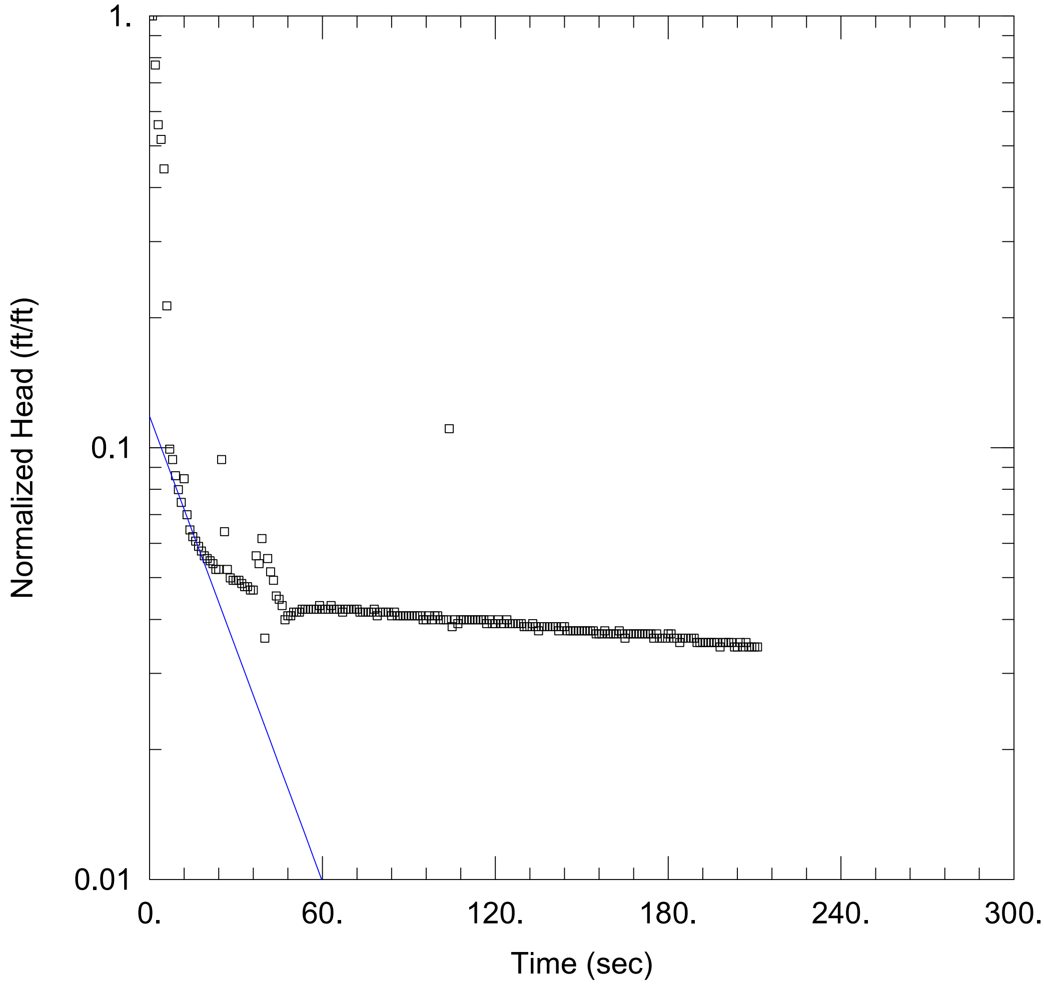
WELL DATA (MW-J)

Initial Displacement: 4.552 ft Static Water Column Height: 9.21 ft
Total Well Penetration Depth: 24.18 ft Screen Length: 10. ft
Casing Radius: 0.08 ft Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 1.408E-5 ft/sec y0 = 2.745 ft



WELL TEST ANALYSIS

Data Set: \...\MW-K Slug In.aqt
Date: 10/15/21 Time: 11:00:13

PROJECT INFORMATION

Company: Day
Client: RSTW
Project: 5491R-18
Location: Rochester
Test Well: MW-K
Test Date: 10/7/2021

AQUIFER DATA

Saturated Thickness: 8.9 ft Anisotropy Ratio (Kz/Kr): 1.

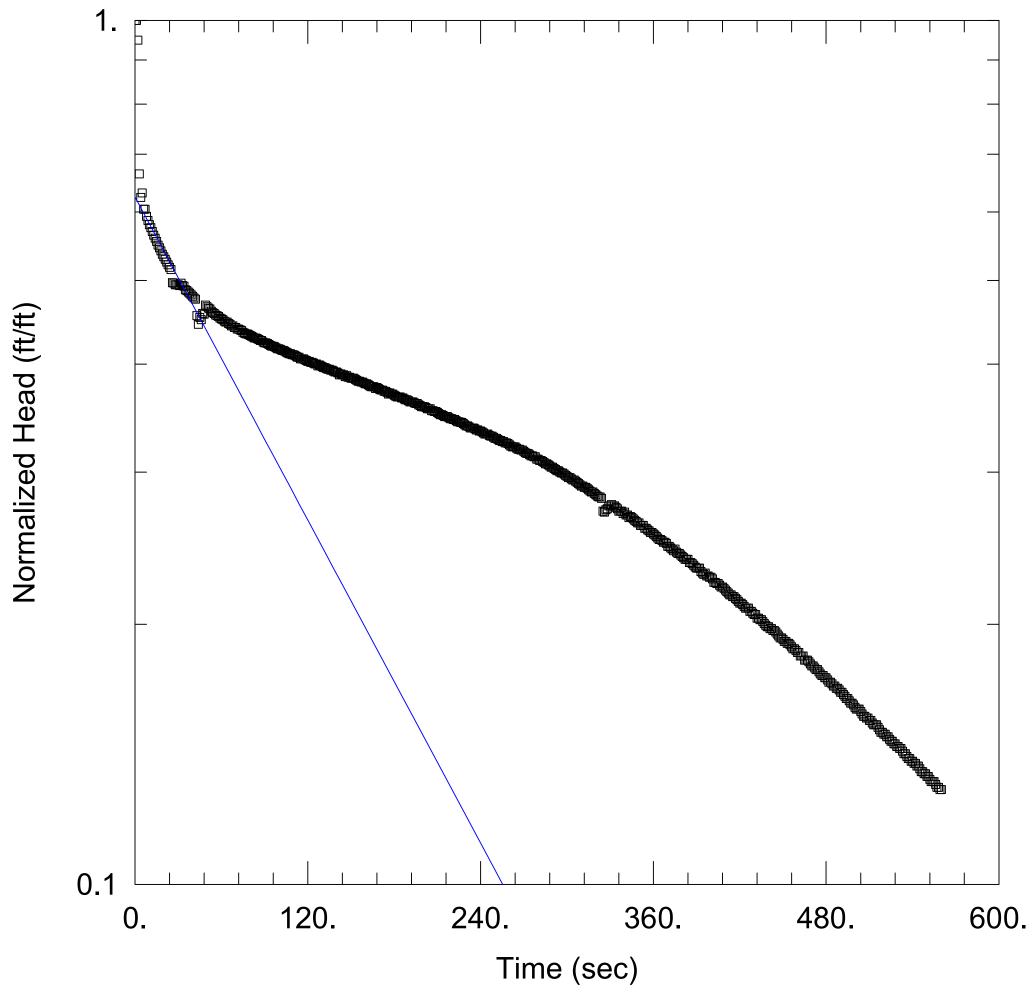
WELL DATA (MW-K)

Initial Displacement: 4.807 ft Static Water Column Height: 8.9 ft
Total Well Penetration Depth: 18. ft Screen Length: 10. ft
Casing Radius: 0.08 ft Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 7.868E-5 ft/sec y0 = 0.5679 ft



WELL TEST ANALYSIS

Data Set: \...\MW-K Slug Out.aqt
Date: 10/15/21 Time: 11:01:38

PROJECT INFORMATION

Company: Day
Client: RSTW
Project: 5491R-18
Location: Rochester
Test Well: MW-K
Test Date: 10/7/2021

AQUIFER DATA

Saturated Thickness: 8.9 ft Anisotropy Ratio (Kz/Kr): 1.

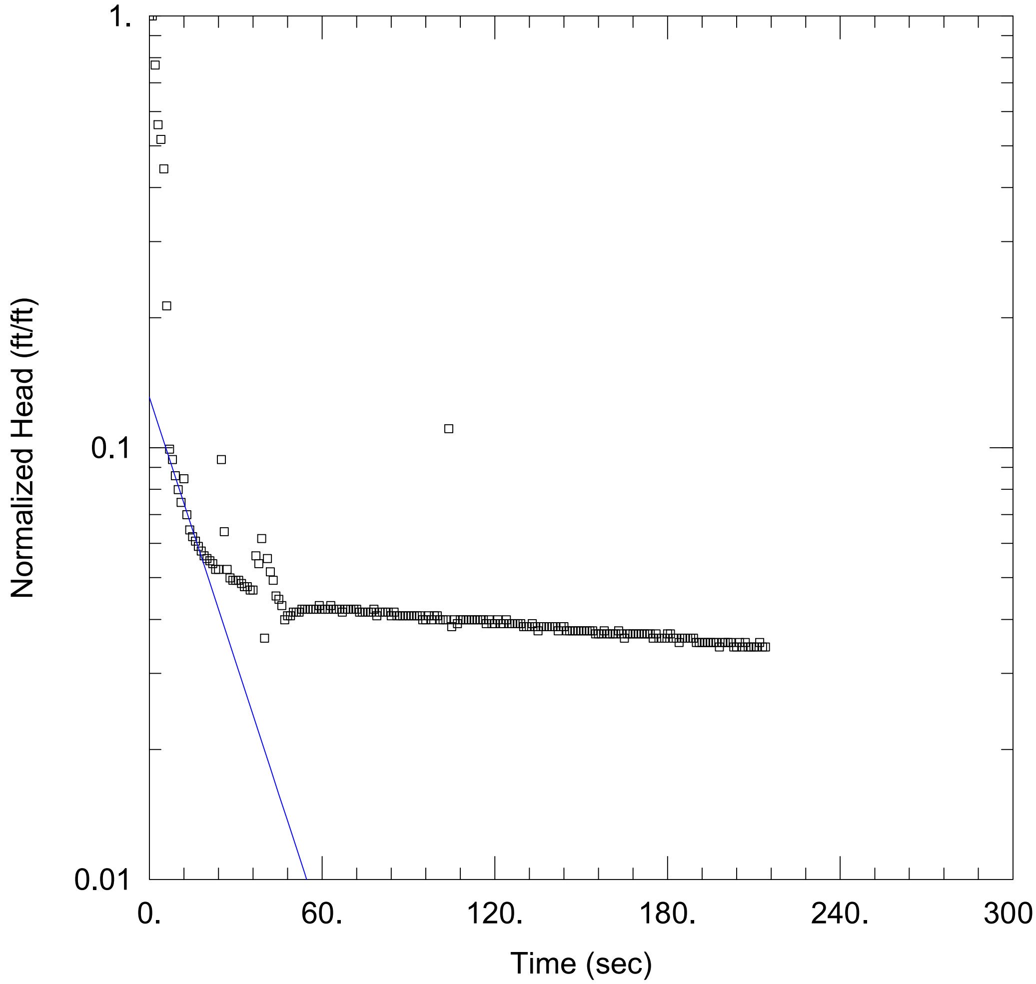
WELL DATA (MW-K)

Initial Displacement: 3.961 ft
Total Well Penetration Depth: 18. ft
Casing Radius: 0.08 ft
Static Water Column Height: 8.9 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 1.367E-5 ft/sec
y0 = 2.475 ft



WELL TEST ANALYSIS

Data Set: \...\MW-L Slug In.aqt
Date: 10/15/21 Time: 11:04:10

PROJECT INFORMATION

Company: Day
Client: RSTW
Project: 5491R-18
Location: Rochester
Test Well: MW-L
Test Date: 10/6/2021

AQUIFER DATA

Saturated Thickness: 5.38 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-L)

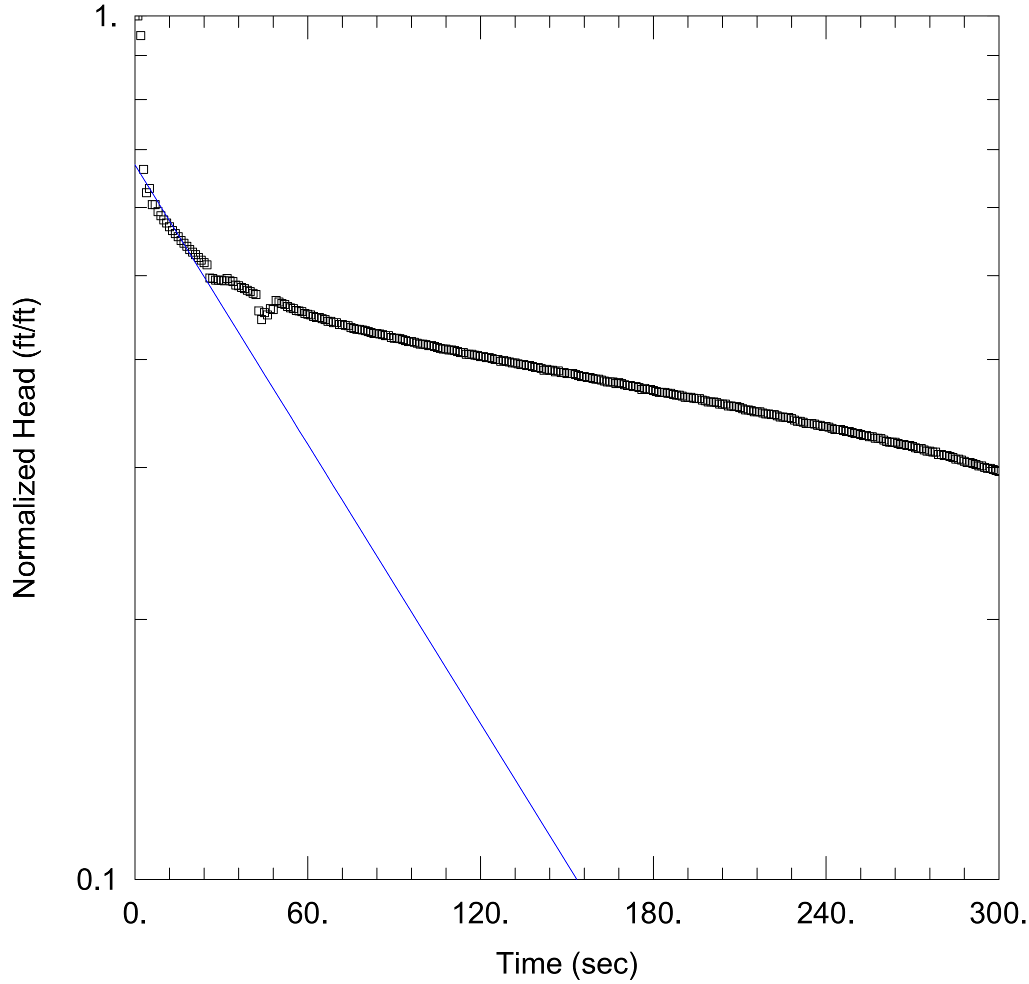
Initial Displacement: 4.807 ft
Total Well Penetration Depth: 18. ft
Casing Radius: 0.08 ft

Static Water Column Height: 5.38 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 0.0001482 ft/sec y0 = 0.6278 ft



WELL TEST ANALYSIS

Data Set: \...\MW-L Slug Out.aqt
Date: 10/15/21
Time: 07:52:32

PROJECT INFORMATION

Company: Day
Client: RSTW
Project: 5491R-18
Location: Rochester
Test Well: MW-L
Test Date: 10/6/2021

AQUIFER DATA

Saturated Thickness: 5.38 ft
Anisotropy Ratio (Kz/Kr): 1.

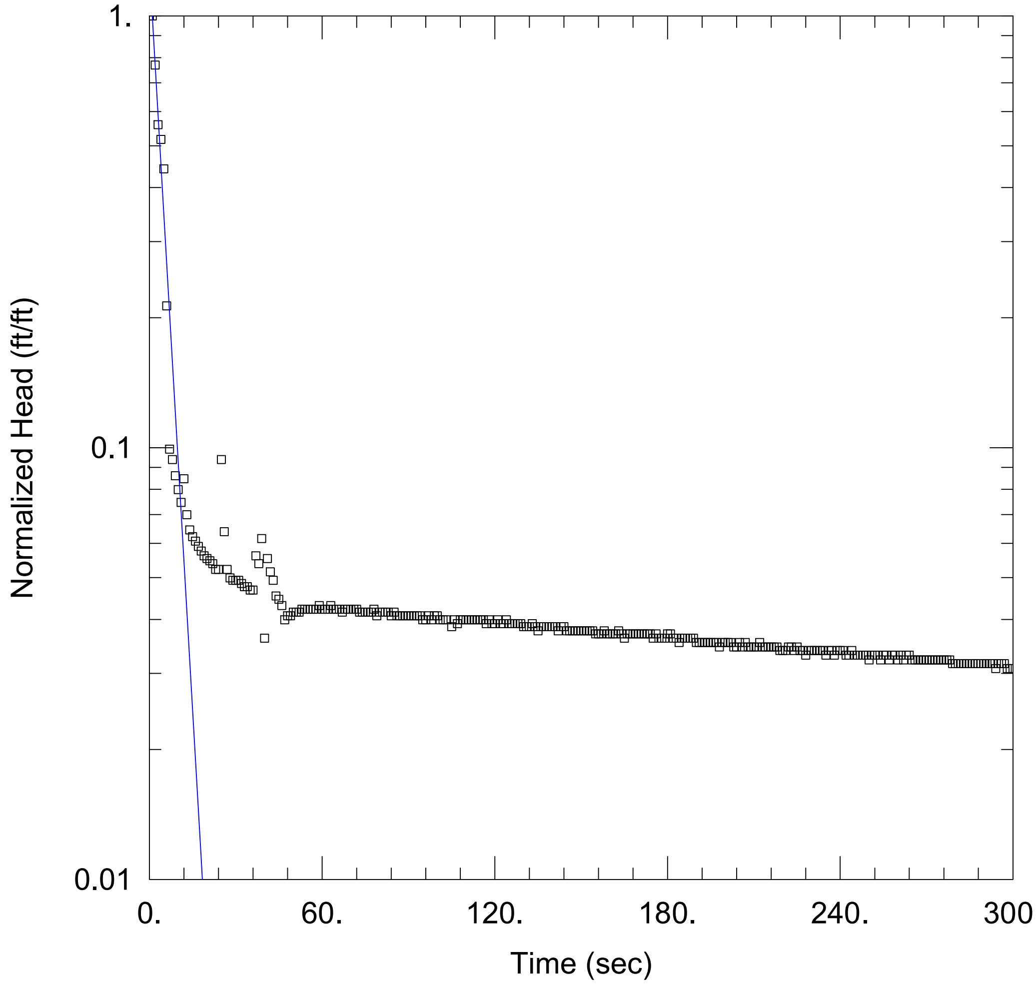
WELL DATA (MW-L)

Initial Displacement: 3.961 ft
Total Well Penetration Depth: 18. ft
Casing Radius: 0.08 ft
Static Water Column Height: 5.38 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 3.913E-5 ft/sec
y0 = 2.661 ft



WELL TEST ANALYSIS

Data Set: \...\MW-N Slug In.aqt
Date: 10/15/21 Time: 08:16:19

PROJECT INFORMATION

Company: Day
Client: RSTW
Project: 5491R-18
Location: Rochester
Test Well: MW-N
Test Date: 10/7/2021

AQUIFER DATA

Saturated Thickness: 9.43 ft
Anisotropy Ratio (Kz/Kr): 1.

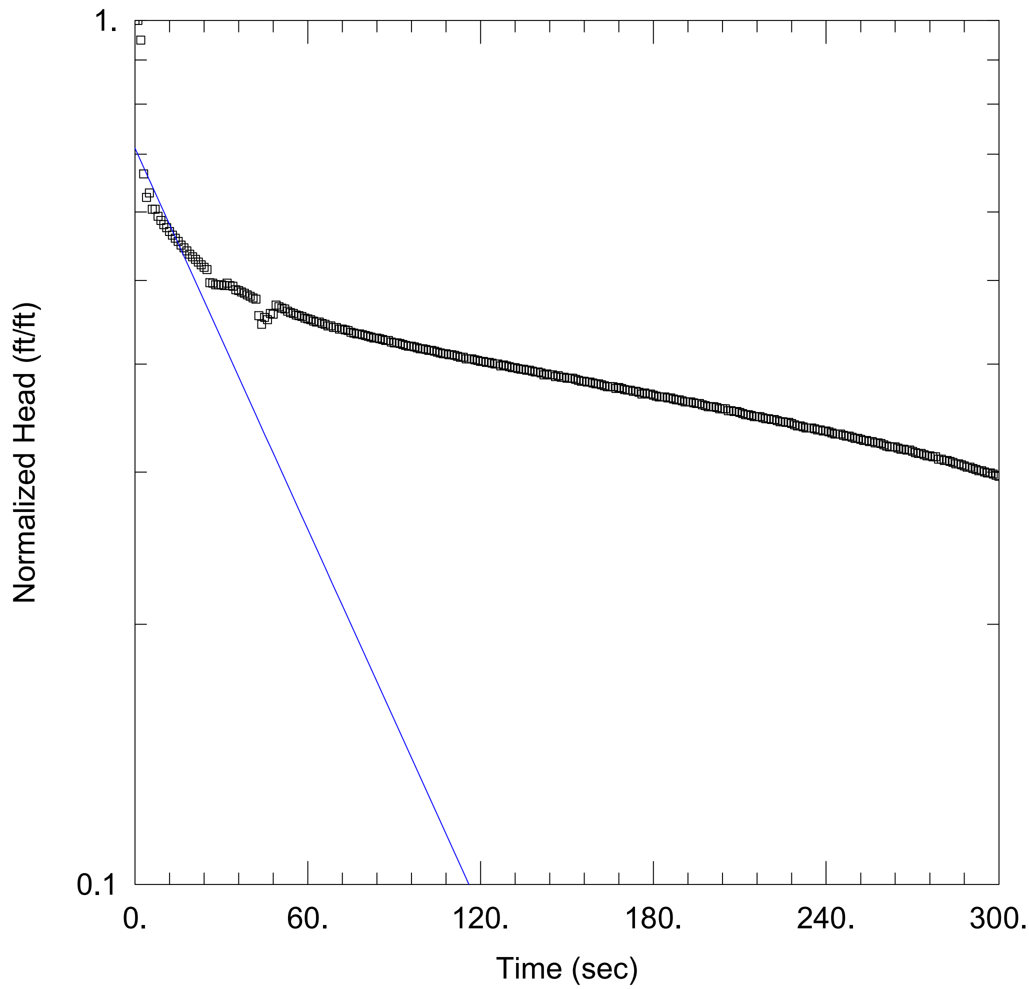
WELL DATA (MW-N)

Initial Displacement: 4.807 ft
Static Water Column Height: 9.43 ft
Total Well Penetration Depth: 18. ft
Screen Length: 10. ft
Casing Radius: 0.08 ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 0.0004758 ft/sec
y0 = 6.275 ft



WELL TEST ANALYSIS

Data Set: \...\MW-N Slug Out.aqt
Date: 10/15/21 Time: 08:13:46

PROJECT INFORMATION

Company: Day
Client: RSTW
Project: 5491R-18
Location: Rochester
Test Well: MW-N
Test Date: 10/7/2021

AQUIFER DATA

Saturated Thickness: 9.43 ft Anisotropy Ratio (Kz/Kr): 1.

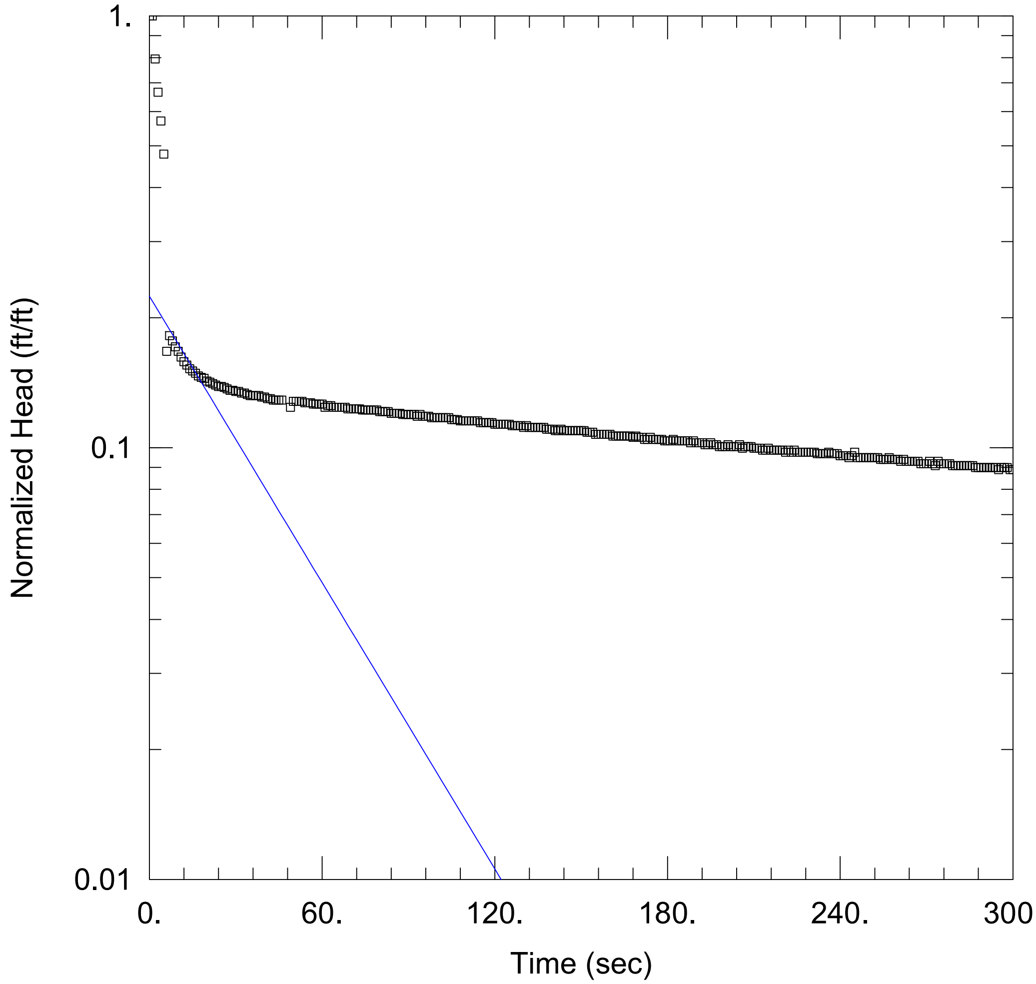
WELL DATA (MW-N)

Initial Displacement: 3.961 ft Static Water Column Height: 9.43 ft
Total Well Penetration Depth: 18. ft Screen Length: 10. ft
Casing Radius: 0.08 ft Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 3.041E-5 ft/sec y0 = 2.816 ft



WELL TEST ANALYSIS

Data Set: \...\MW-Q Slug In.aqt
Date: 10/15/21 Time: 09:51:35

PROJECT INFORMATION

Company: Day
Client: RSTW
Project: 5491R-18
Location: Rochester
Test Well: MW-Q
Test Date: 10/7/2021

AQUIFER DATA

Saturated Thickness: 8.33 ft Anisotropy Ratio (Kz/Kr): 1.

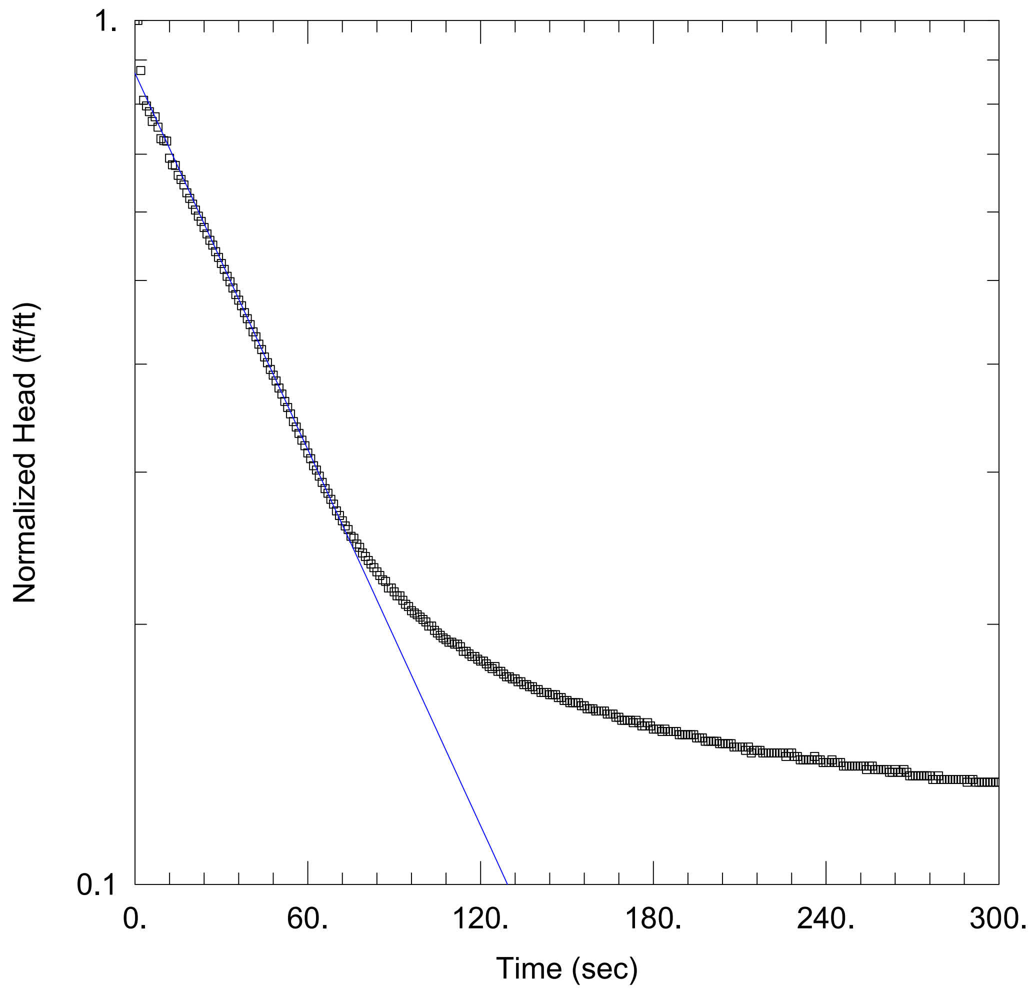
WELL DATA (MW-Q)

Initial Displacement: 3.78 ft Static Water Column Height: 8.33 ft
Total Well Penetration Depth: 17.7 ft Screen Length: 10. ft
Casing Radius: 0.08 ft Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 5.18E-5 ft/sec y0 = 0.8475 ft



WELL TEST ANALYSIS

Data Set: \...\MW-Q Slug Out.aqt
Date: 10/15/21 Time: 09:54:42

PROJECT INFORMATION

Company: Day
Client: RSTW
Project: 5491R-18
Location: Rochester
Test Well: MW-Q
Test Date: 10/7/2021

AQUIFER DATA

Saturated Thickness: 8.33 ft Anisotropy Ratio (Kz/Kr): 1.

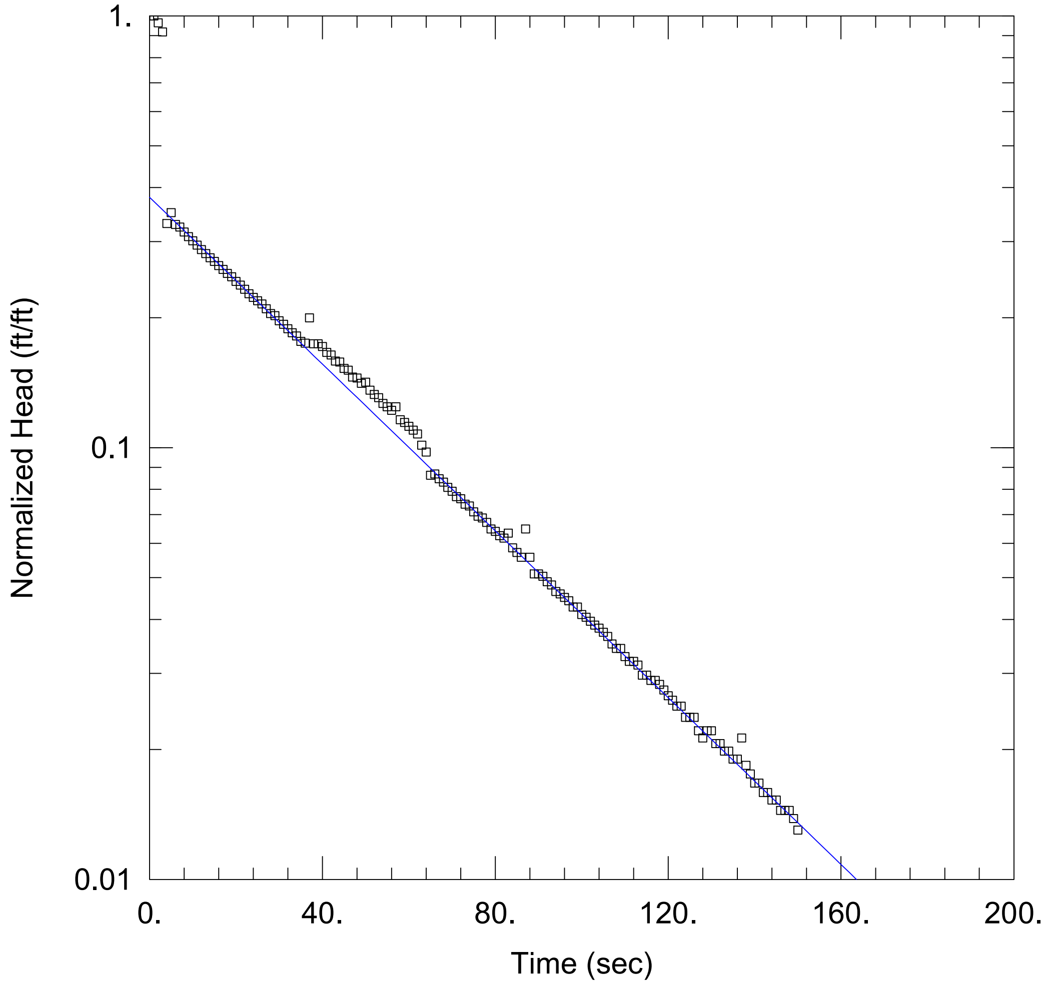
WELL DATA (MW-Q)

Initial Displacement: 3.1 ft
Total Well Penetration Depth: 17.7 ft
Casing Radius: 0.08 ft
Static Water Column Height: 8.33 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 3.401E-5 ft/sec y0 = 2.693 ft



WELL TEST ANALYSIS

Data Set: \...\MW-R Slug In.aqt
Date: 10/15/21 Time: 10:09:17

PROJECT INFORMATION

Company: Day
Client: RSTW
Project: 5491R-18
Location: Rochester
Test Well: MW-R
Test Date: 10/7/2021

AQUIFER DATA

Saturated Thickness: 8.9 ft
Anisotropy Ratio (Kz/Kr): 1.

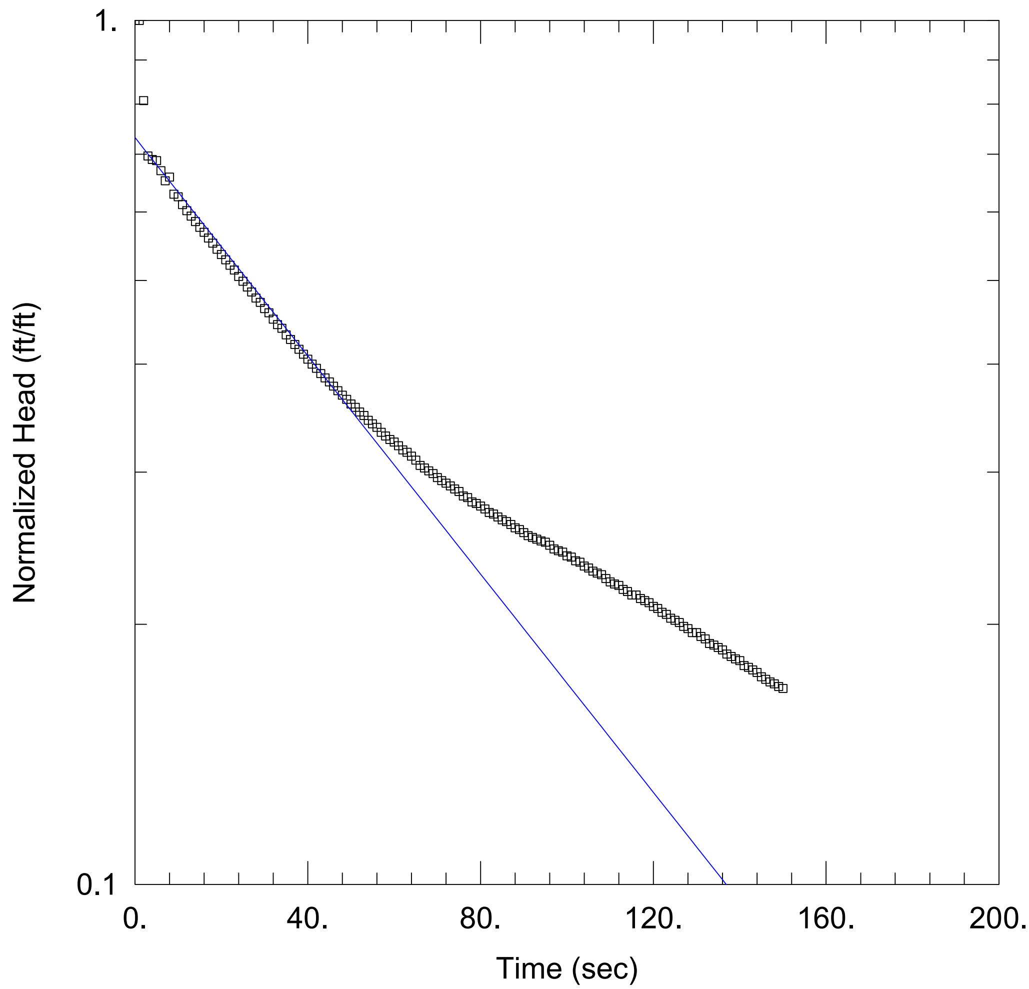
WELL DATA (MW-R)

Initial Displacement: 4.844 ft
Static Water Column Height: 8.9 ft
Total Well Penetration Depth: 17. ft
Screen Length: 10. ft
Casing Radius: 0.08 ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 4.237E-5 ft/sec
y0 = 1.841 ft



WELL TEST ANALYSIS

Data Set: \...\MW-R Slug Out.aqt
Date: 10/15/21   Time: 10:13:58

PROJECT INFORMATION

Company: Day
Client: RSTW
Project: 5491R-18
Location: Rochester
Test Well: MW-R
Test Date: 10/7/2021

AQUIFER DATA

Saturated Thickness: 8.9 ft   Anisotropy Ratio (Kz/Kr): 1.

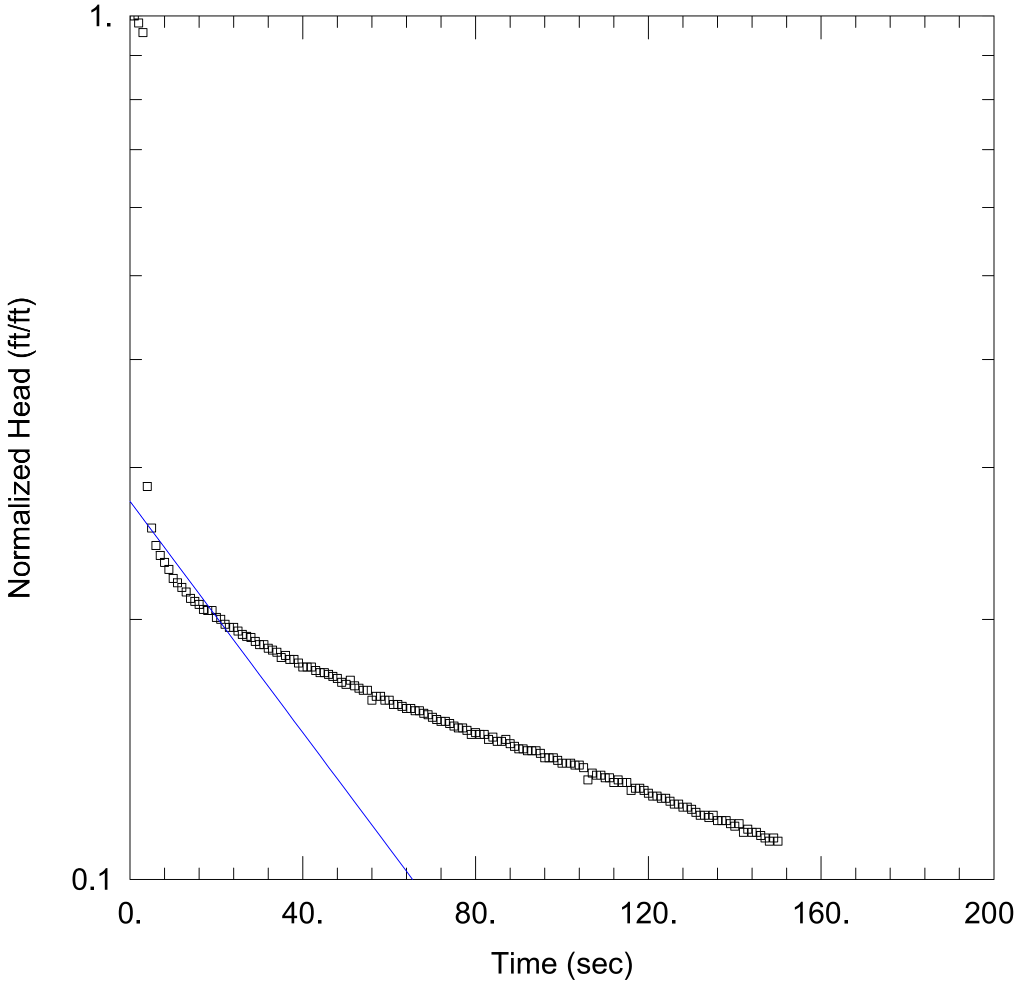
WELL DATA (MW-R)

Initial Displacement: 3.399 ft   Static Water Column Height: 8.9 ft
Total Well Penetration Depth: 17. ft   Screen Length: 10. ft
Casing Radius: 0.08 ft   Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined   Solution Method: Hvorslev

K = 2.77E-5 ft/sec   y0 = 2.487 ft



WELL TEST ANALYSIS

Data Set: \...\MW-S Slug In.aqt
Date: 10/15/21 Time: 10:31:31

PROJECT INFORMATION

Company: Day
Client: RSTW
Project: 5491R-18
Location: Rochester
Test Well: MW-S
Test Date: 10/6/2021

AQUIFER DATA

Saturated Thickness: 6.52 ft
Anisotropy Ratio (Kz/Kr): 1.

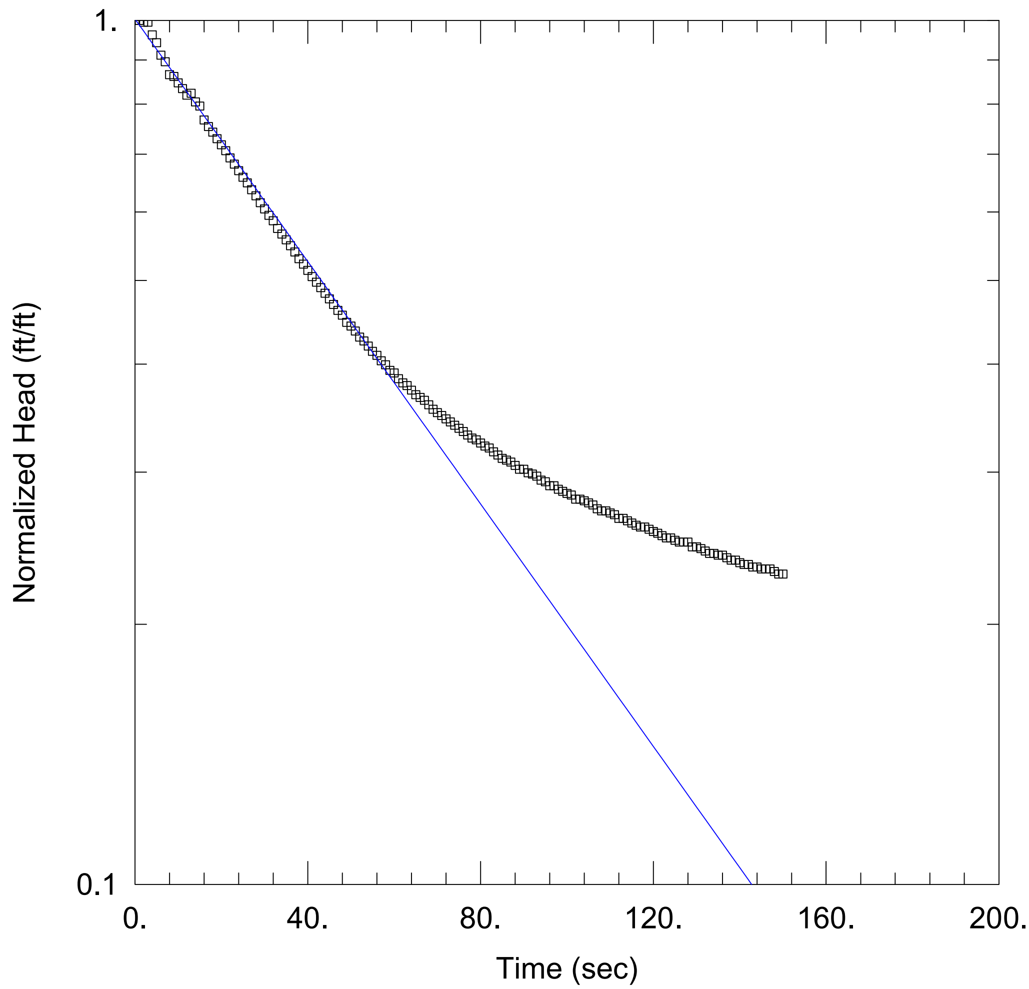
WELL DATA (MW-S)

Initial Displacement: 4.172 ft
Total Well Penetration Depth: 16.9 ft
Casing Radius: 0.08 ft
Static Water Column Height: 6.52 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 4.007E-5 ft/sec
y0 = 1.143 ft



WELL TEST ANALYSIS

Data Set: \...\MW-S Slug Out.aqt
Date: 10/15/21
Time: 10:35:26

PROJECT INFORMATION

Company: Day
Client: RSTW
Project: 5491R-18
Location: Rochester
Test Well: MW-S
Test Date: 10/6/2021

AQUIFER DATA

Saturated Thickness: 6.52 ft
Anisotropy Ratio (Kz/Kr): 1.

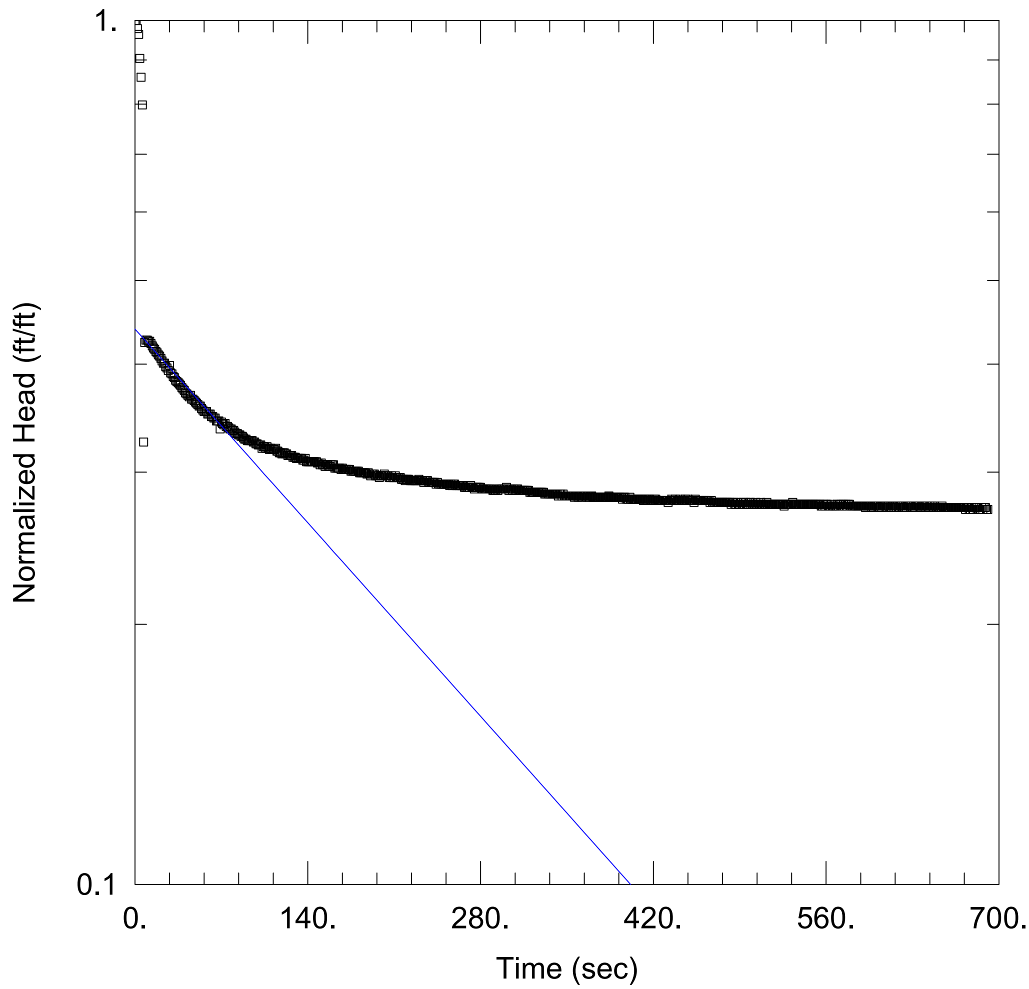
WELL DATA (MW-S)

Initial Displacement: 2.554 ft
Total Well Penetration Depth: 16.9 ft
Casing Radius: 0.08 ft
Static Water Column Height: 6.52 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 4.201E-5 ft/sec
y0 = 2.563 ft



WELL TEST ANALYSIS

Data Set: \...\BRMW-1 Slug In.aqt
Date: 10/14/21 Time: 12:02:01

PROJECT INFORMATION

Company: Day
Client: RSTW
Project: 5491R-18
Location: Rochester
Test Well: BRMW-1
Test Date: 10/6/2021

AQUIFER DATA

Saturated Thickness: 22.78 ft Anisotropy Ratio (Kz/Kr): 1.

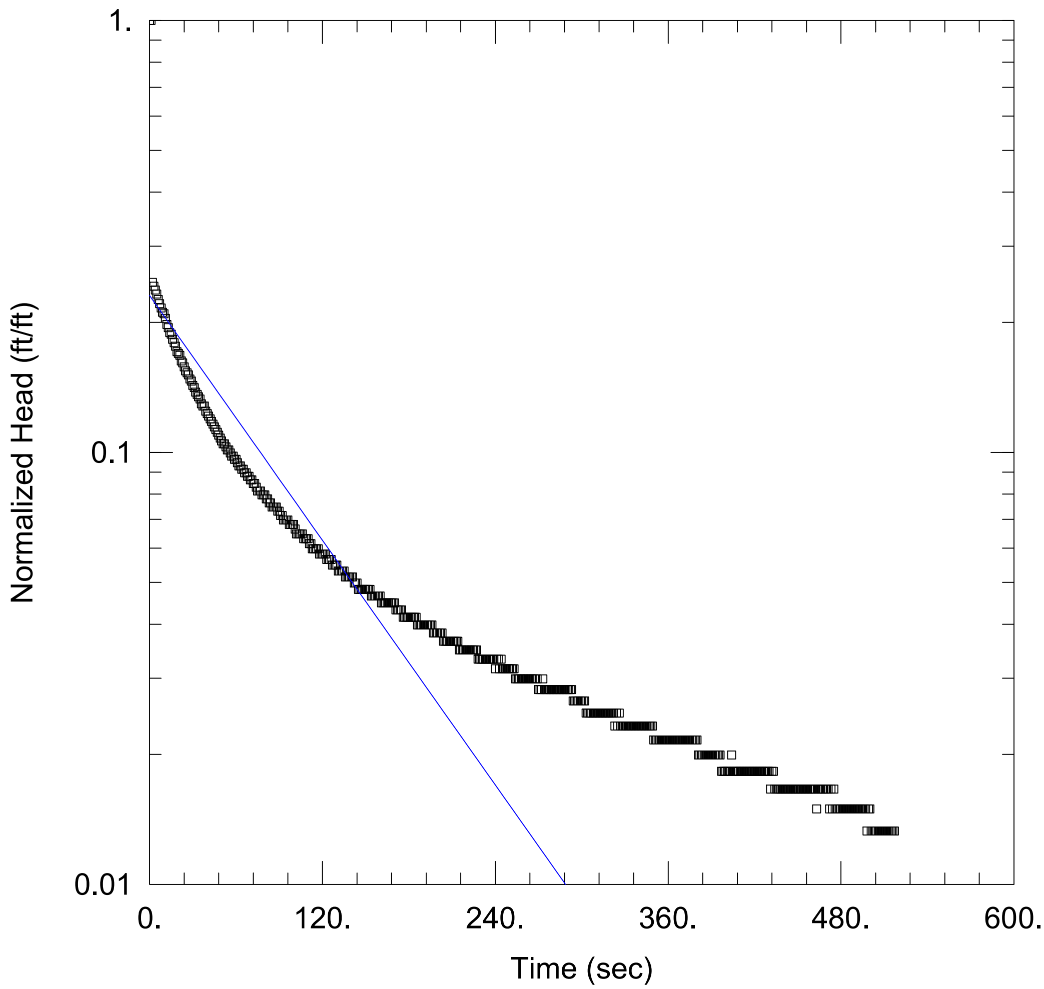
WELL DATA (BRMW-1)

Initial Displacement: 2.912 ft Static Water Column Height: 22.78 ft
Total Well Penetration Depth: 48. ft Screen Length: 20. ft
Casing Radius: 0.17 ft Well Radius: 0.42 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 1.214E-5 ft/sec y0 = 1.279 ft



WELL TEST ANALYSIS

Data Set: \...\BRMW-1 Slug Out.aqt
Date: 10/14/21
Time: 12:05:22

PROJECT INFORMATION

Company: Day
Client: RSTW
Project: 5491R-18
Location: Rochester
Test Well: BRMW-1
Test Date: 10/6/2021

AQUIFER DATA

Saturated Thickness: 22.78 ft
Anisotropy Ratio (Kz/Kr): 1.

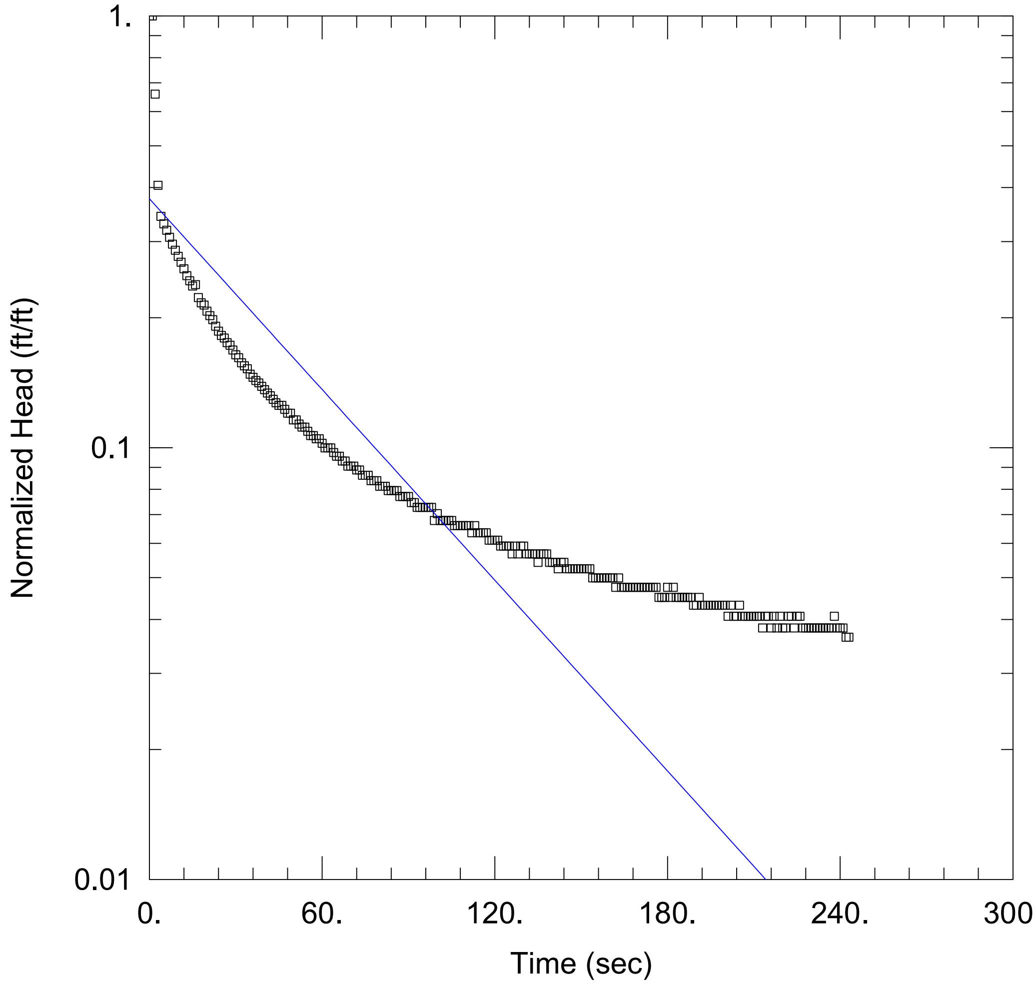
WELL DATA (BRMW-1)

Initial Displacement: 6.02 ft
Static Water Column Height: 22.78 ft
Total Well Penetration Depth: 48. ft
Screen Length: 20. ft
Casing Radius: 0.17 ft
Well Radius: 0.42 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 3.579E-5 ft/sec
y0 = 1.389 ft



WELL TEST ANALYSIS

Data Set: \...\BRMW-2 Slug In.aqt
Date: 10/14/21 Time: 12:54:57

PROJECT INFORMATION

Company: Day
Client: RSTW
Project: 5491R-18
Location: Rochester
Test Well: BRMW-2
Test Date: 10/8/2021

AQUIFER DATA

Saturated Thickness: 24.4 ft Anisotropy Ratio (Kz/Kr): 1.

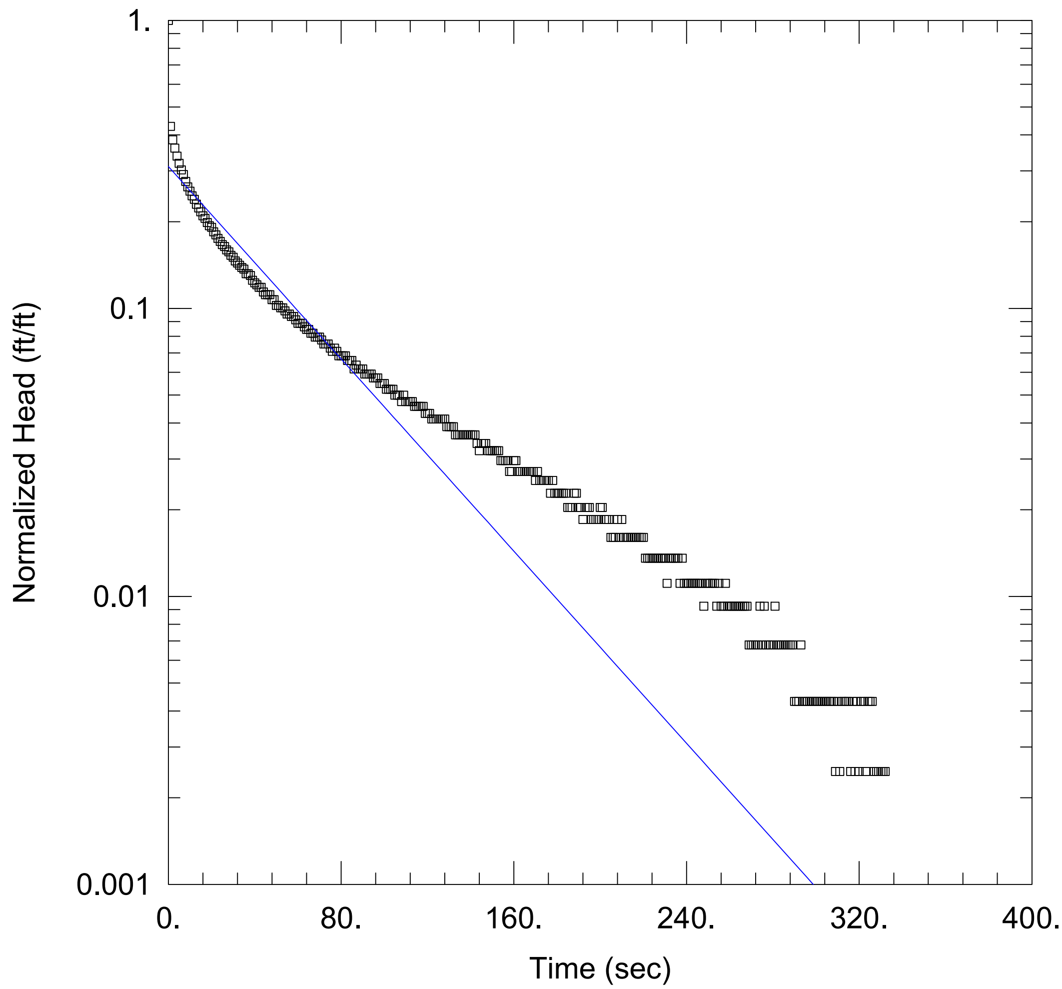
WELL DATA (BRMW-2)

Initial Displacement: 1.622 ft Static Water Column Height: 24.4 ft
Total Well Penetration Depth: 38.5 ft Screen Length: 20. ft
Casing Radius: 0.167 ft Well Radius: 0.417 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 5.394E-5 ft/sec y0 = 0.6115 ft



WELL TEST ANALYSIS

Data Set: \...\BRMW-2 Slug Out.aqt
Date: 10/14/21 Time: 12:47:13

PROJECT INFORMATION

Company: Day
Client: RSTW
Project: 5491R-18
Location: Rochester
Test Well: BRMW-2
Test Date: 10/8/2021

AQUIFER DATA

Saturated Thickness: 24.4 ft Anisotropy Ratio (Kz/Kr): 1.

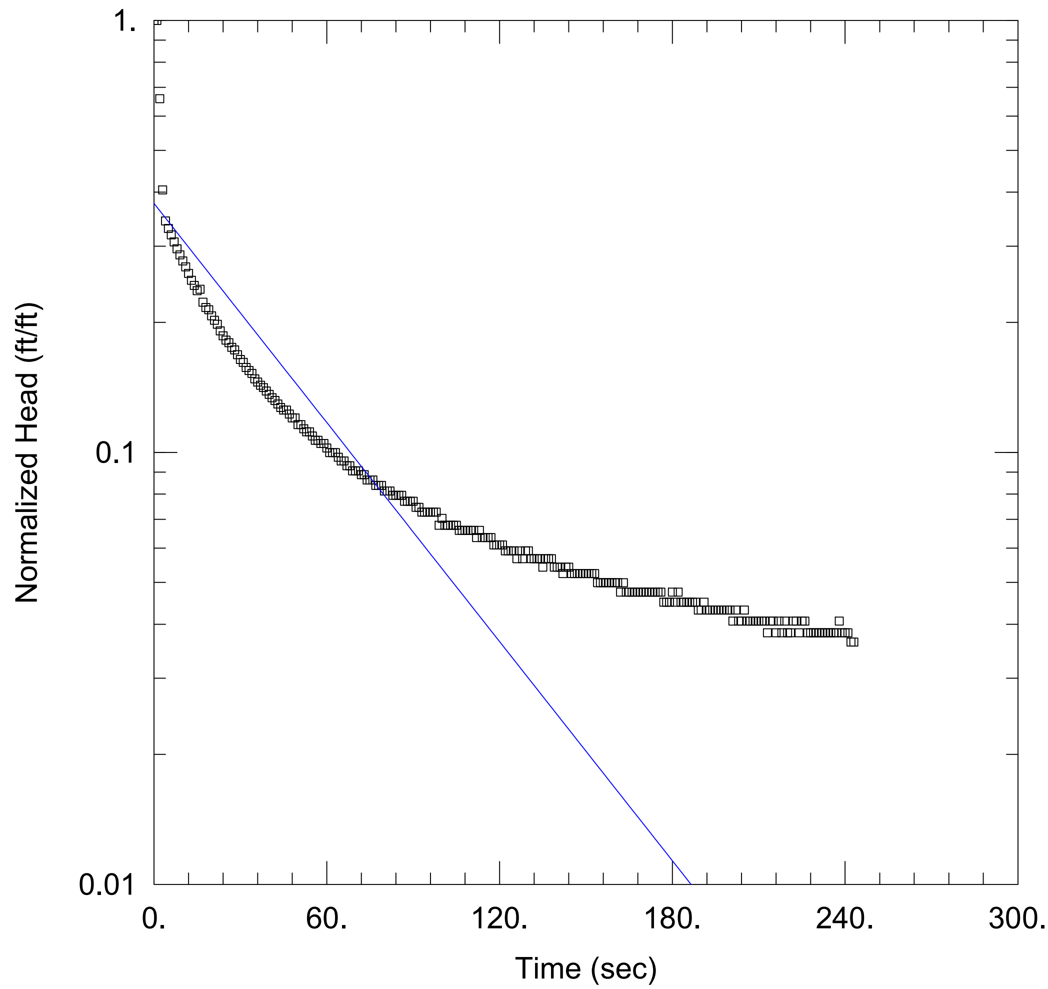
WELL DATA (BRMW-2)

Initial Displacement: 1.622 ft
Total Well Penetration Depth: 38.5 ft
Casing Radius: 0.167 ft
Static Water Column Height: 24.4 ft
Screen Length: 20. ft
Well Radius: 0.417 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 6.114E-5 ft/sec y0 = 0.5039 ft



WELL TEST ANALYSIS

Data Set: \...\BRMW-3 Slug In.aqt
Date: 10/14/21 Time: 13:50:24

PROJECT INFORMATION

Company: Day
Client: RSTW
Project: 5491R-18
Location: Rochester
Test Well: BRMW-3
Test Date: 10/8/2021

AQUIFER DATA

Saturated Thickness: 20.2 ft Anisotropy Ratio (Kz/Kr): 1.

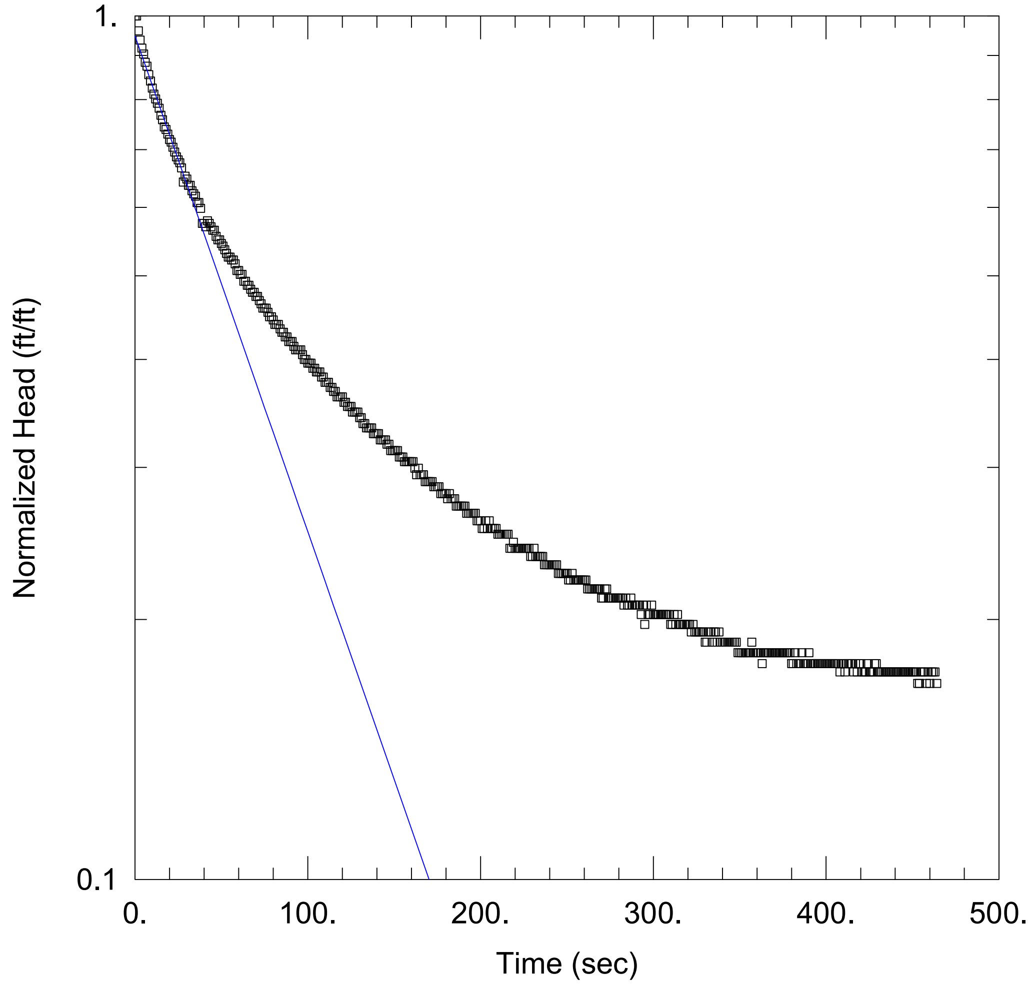
WELL DATA (BRMW-3)

Initial Displacement: 1.622 ft Static Water Column Height: 20.2 ft
Total Well Penetration Depth: 39. ft Screen Length: 20. ft
Casing Radius: 0.167 ft Well Radius: 0.417 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 6.194E-5 ft/sec y0 = 0.6115 ft



WELL TEST ANALYSIS

Data Set: \...\BRMW-3 Slug Out.aqt
Date: 10/14/21 Time: 13:55:13

PROJECT INFORMATION

Company: Day
Client: RSTW
Project: 5491R-18
Location: Rochester
Test Well: BRMW-3
Test Date: 10/8/2021

AQUIFER DATA

Saturated Thickness: 20.4 ft Anisotropy Ratio (Kz/Kr): 1.

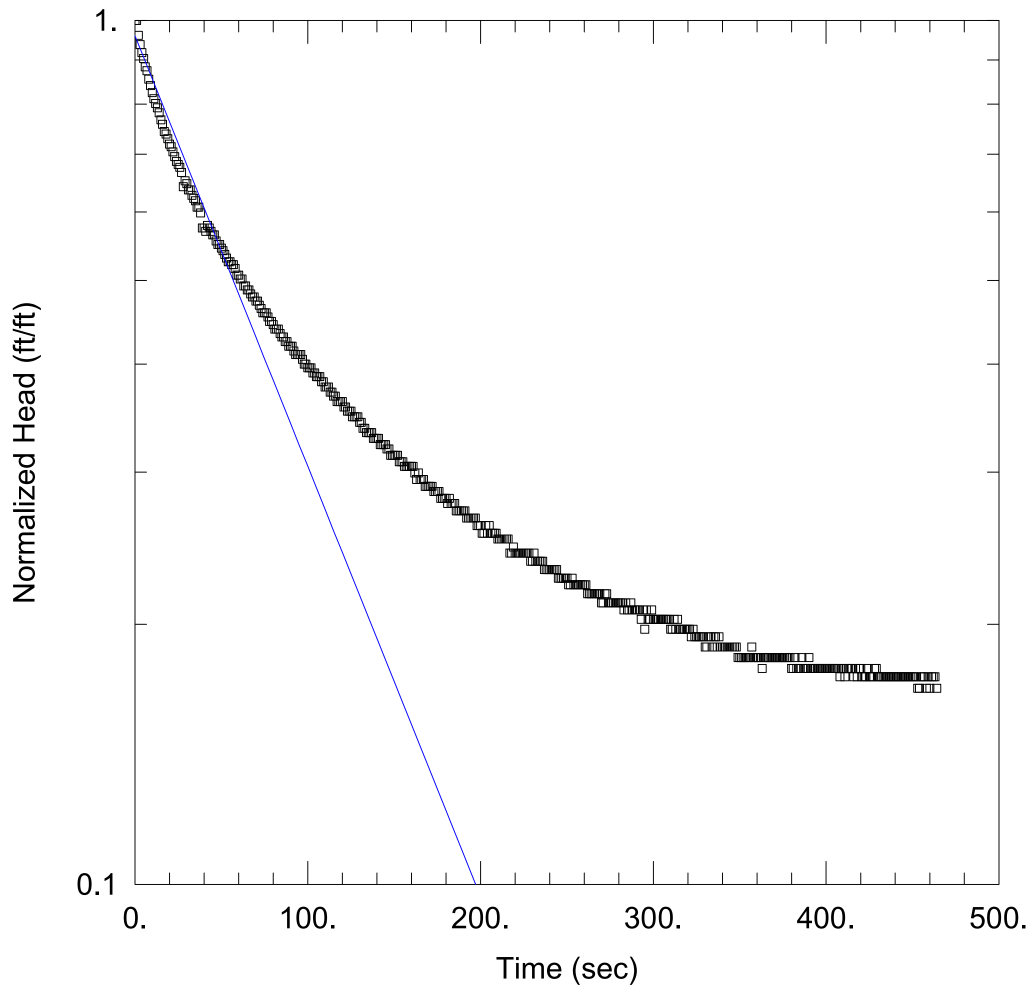
WELL DATA (BRMW-3)

Initial Displacement: 0.765 ft
Total Well Penetration Depth: 39. ft
Casing Radius: 0.167 ft
Static Water Column Height: 20.4 ft
Screen Length: 20. ft
Well Radius: 0.417 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 4.206E-5 ft/sec y0 = 0.7253 ft



WELL TEST ANALYSIS

Data Set: \...\BRMW-4 Slug In.aqt
Date: 10/14/21 Time: 13:43:51

PROJECT INFORMATION

Company: Day
Client: RSTW
Project: 5491R-18
Location: Rochester
Test Well: BRMW-2
Test Date: 10/8/2021

AQUIFER DATA

Saturated Thickness: 20.4 ft Anisotropy Ratio (Kz/Kr): 1.

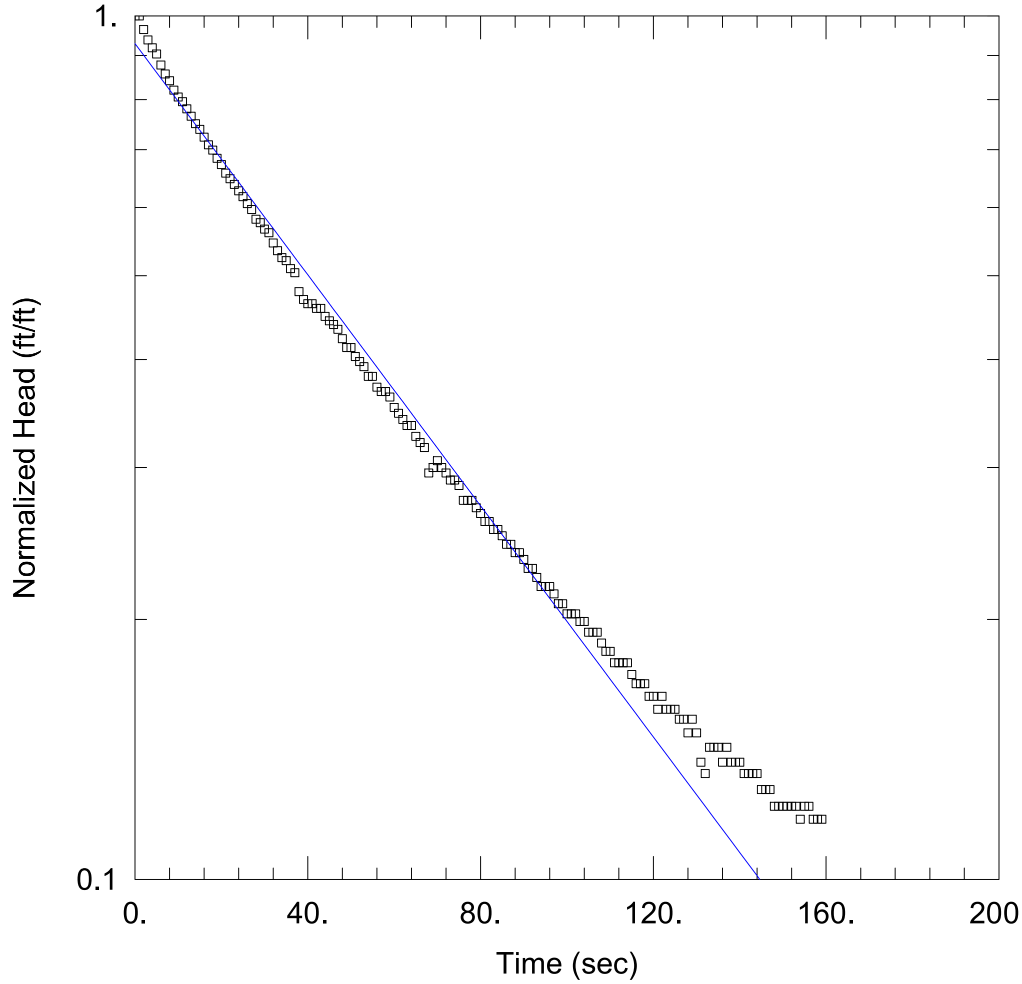
WELL DATA (BRMW-3)

Initial Displacement: 0.765 ft
Total Well Penetration Depth: 36.7 ft
Casing Radius: 0.167 ft
Static Water Column Height: 20.4 ft
Screen Length: 20. ft
Well Radius: 0.417 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 3.65E-5 ft/sec y0 = 0.7342 ft



WELL TEST ANALYSIS

Data Set: \...\BRMW-4 Slug Out.aqt
Date: 10/14/21 Time: 13:43:14

PROJECT INFORMATION

Company: Day
Client: RSTW
Project: 5491R-18
Location: Rochester
Test Well: BRMW-3
Test Date: 10/8/2021

AQUIFER DATA

Saturated Thickness: 26.29 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (BRMW-4)

Initial Displacement: 0.724 ft
Total Well Penetration Depth: 39. ft
Casing Radius: 0.167 ft
Static Water Column Height: 26.29 ft
Screen Length: 20. ft
Well Radius: 0.417 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 4.902E-5 ft/sec y0 = 0.6723 ft

APPENDIX F

SOIL VAPOR SAMPLING LOGS

Soil Vapor Sampling Log

Page 1 of 1

Project #: RSTW.5491R-18

Project Address: 962 East Main Street, Rochester, NY

Sample Type: Ambient

Date: 4/10/2019

DAY Representative: H. McLennan

Canister #: SSC00133

Slab Thickness: NA

Sample Location: VP-1

Regulator #: FCA00562

Probe Depth: 16.5 ft. bgs

Purge Time: 2 min

Sample Designation: VP-1

Start: 10:07

Backfill Material: Sand

Purge Method: He detector pump

Test Duration: 2 hr, 43 min

End: 13:00

Surface Seal: Bentonite

Helium Tracer Testing

Chamber Type / Volume: Plastic Bucket

Surface Seal: Bentonite

He Concentration Inside Chamber: 72.30%

He Measurement from Vapor Point: 1025 ppm (0.1%)

Vapor Sample Collection Data

Time	Vacuum Gage Reading (inches of Hg)	Background VOC Reading (ppb or ppm)	Notes
10:07	-30.0	0.0	start
10:20	-28.5	0.0	
10:31	-20.5	0.0	
10:41	-25.5	0.0	
10:52	-22.5	0.0	
11:05	-20.0	0.0	
11:16	-18.5	0.0	
11:34	-15.0	0.0	
11:46	-13.5	0.0	
12:02	-10.5	0.0	
12:30	-6.5	0.0	
13:00	-5.0	0.0	stop

Notes: 1) PID readings are referenced to an isobutylene standard measured using a MiniRae 3000 equipped with a 10.6 eV lamp.

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825

www.dayenvironmental.com

420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

Soil Vapor Sampling Log

Project #: RSTW.5491R-18

Project Address: 962 East Main Street, Rochester, NY

Sample Type: Ambient

Date: 4/10/2019

DAY Representative: H. McLennan

Canister #: SC00813

Slab Thickness: NA

Sample Location: VP-2

Regulator #: FCA00668

Probe Depth: 8.5 ft. bgs

Purge Time: 2 min

Sample Designation: VP-2

Start: 10:09

Backfill Material: Sand

Purge Method: He detector pump

Test Duration: 1 hr, 18 min

End: 11:27

Surface Seal: Bentonite

Helium Tracer Testing

Chamber Type / Volume: HDPE / 0.9 gal

Surface Seal: Bentonite

He Concentration Inside Chamber: 74.60%

He Measurement from Vapor Point: 0 ppm

Vapor Sample Collection Data

Time	Vacuum Gage Reading (inches of Hg)	Background VOC Reading (ppb or ppm)	Notes
10:09	-29.0	0.2	start
10:18	-24.0	0.2	
10:34	-17.5	0.1 - 0.2	
10:42	-12.0	0.5	
10:56	-8.0	0.3	
11:04	-6.0	0.2	
11:11	-4.5	0.2	
11:21	-3.5	0.2	
11:27	-3.0	0.2	stop

Notes: 1) PID readings are referenced to an isobutylene standard measured using a MiniRae 3000 equipped with a 10.6 eV lamp.

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com
420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

Soil Vapor Sampling Log

Project #: RSTW.5491R-18

Project Address: 962 East Main Street, Rochester, NY

Sample Type: Ambient

Date: 4/10/2019

DAY Representative: H. McLennan

Canister #: S001815

Slab Thickness: NA

Sample Location: VP-2

Regulator #: FCA00168

Probe Depth: 8.5 ft. bgs

Purge Time: 2 min

Sample Designation: Duplicate

Start: -24

Backfill Material: Sand

Purge Method: He detector pump

Test Duration: 1 hr, 46 min

End: -4

Surface Seal: Bentonite

Helium Tracer Testing

Chamber Type / Volume: HDPW / 0.9 gal

Surface Seal: Bentonite

He Concentration Inside Chamber:

He Measurement from Vapor Point:

Vapor Sample Collection Data

Time	Vacuum Gage Reading (inches of Hg)	Background VOC Reading (ppb or ppm)	Notes
11:29	-24.0	0.3	start
11:30	-22.0	0.3	
11:50	-19.0	0.4	
12:15	-13.5	0.2	
12:32	-10.0	0.3	
12:52	-6.0	0.6	
13:05	-4.0	0.7	stop

Notes: 1) PID readings are referenced to an isobutylene standard measured using a MiniRae 3000 equipped with a 10.6 eV lamp.

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825

www.dayenvironmental.com

420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

Soil Vapor Sampling Log

Project #: RSTW.5491R-18

Project Address: 962 East Main Street, Rochester, NY

Sample Type: Ambient

Date: 4/10/2019

DAY Representative: H. McLennan

Canister #: SSC00433

Slab Thickness: NA

Sample Location: VP-3

Regulator #: FCA01021

Probe Depth: 8

Purge Time: 2 min

Sample Designation: VP-3

Start: 10:10

Backfill Material: Sand

Purge Method: He detector pump

Test Duration: 2 hr, 3 min

End: 12:13

Surface Seal: Bentonite

Helium Tracer Testing

Chamber Type / Volume: HDPE cover / 0.9 gal

Surface Seal: Bentonite

He Concentration Inside Chamber: 82%

He Measurement from Vapor Point: 0 ppm

Vapor Sample Collection Data

Time	Vacuum Gage Reading (inches of Hg)	Background VOC Reading (ppb or ppm)	Notes
10:10	-29.0	0.0	start
10:25	-25.5	0.0	
10:40	-22.0	0.0	
10:00	-19.0	0.0	
11:02	-16.0	0.0	
11:13	-13.0	0.0	
11:30	-9.0	0.0	
11:41	-6.5	0.0	
12:13	-2.5	0.0	stop

Notes: 1) PID readings are referenced to an isobutylene standard measured using a MiniRae 3000 equipped with a 10.6 eV lamp.

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com
420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

Soil Vapor Sampling Log

Project #: RSTW.5491R-18

Project Address: 962 East Main Street, Rochester, NY

Sample Type: Ambient

Date: 4/10/2019

DAY Representative: C. Demian

Canister #: SCO1693

Slab Thickness: NA

Sample Location: VP-4

Regulator #: AVG04961

Probe Depth: 8

Purge Time: 2 min

Sample Designation: VP-4

Start: 10:11

Backfill Material: Sand

Purge Method: He detector pump

Test Duration: 1 hr, 31 min

End: 11:42

Surface Seal: Bentonite

Helium Tracer Testing

Chamber Type / Volume: HDPE / 0.9 gal

Surface Seal: Bentonite

He Concentration Inside Chamber: 78.30%

He Measurement from Vapor Point: 0 ppm

Vapor Sample Collection Data

Time	Vacuum Gage Reading (inches of Hg)	Background VOC Reading (ppb or ppm)	Notes
10:11	-27.5	0.0	start
10:20	-24.0	0.0	
10:36	-21.5	0.0	
10:50	-16.5	0.0	
11:01	-14.0	0.0	
11:11	-11.0	0.0	
11:31	-6.5	0.0	
11:42	-3.5	0.0	stop

Notes: 1) PID readings are referenced to an isobutylene standard measured using a MiniRae 3000 equipped with a 10.6 eV lamp.

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com
420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

Soil Vapor Sampling Log

Project #: RSTW.5491R-18

Project Address: 962 East Main Street
Rochester, NY

Sample Type: Ambient

Date: 4/10/2019

DAY Representative: C. Demian

Canister #: SCO2184

Slab Thickness: NA

Sample Location: VP-5

Regulator #: FCA00364

Probe Depth: 13.5

Purge Time: 2 min

Sample Designation: VP-5

Start: 0.4

Backfill Material: Bentonite/Sand

Purge Method: He detector pump

Test Duration: 2 hr, 0 min

End: 12:29

Surface Seal: Bentonite

Helium Tracer Testing

Chamber Type / Volume: Plastic Bucket

Surface Seal: Bentonite

He Concentration Inside Chamber: 73.30%

He Measurement from Vapor Point: 0.0 ppm

Vapor Sample Collection Data

Time	Vacuum Gage Reading (inches of Hg)	Background VOC Reading (ppb or ppm)	Notes
10:29	-29.0	0.0	start
10:42	-26.0	0.0	
10:52	-23.0	0.0	
11:05	-20.0	0.0	
11:18	-17.5	0.0	
11:35	-13.0	0.0	
11:48	-10.0	0.0	
12:02	-6.5	0.0	
12:29	-3.5	0.0	stop

Notes: 1) PID readings are referenced to an isobutylene standard measured using a MiniRae 3000 equipped with a 10.6 eV lamp.

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825

www.dayenvironmental.com

420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

Soil Vapor Sampling Log

Page 1 of 1

Project #: RSTW.5491R-18

Project Address: 962 East Main Street
Rochester, NY

Sample Type: Ambient

Date: 4/10/2019

DAY Representative: C. Demian

Canister #: ACO2271

Slab Thickness: NA

Sample Location: BG-1

Regulator #: FCS00111

Probe Depth: NA

Purge Time: NA

Sample Designation: BG-1

Start: 10:04

Backfill Material: NA

Purge Method: NA

Test Duration: 2 hr, 0 min

End: 12:04

Surface Seal: NA

Vapor Sample Collection Data

Time	Vacuum Gage Reading (inches of Hg)	Background VOC Reading (ppb or ppm)	Notes
10:04	-30.0	0.0	start
10:17	-28.0	0.0	
10:32	-24.5	0.0	
10:41	-22.5	0.0	
10:52	-20.0	0.0	
11:05	-16.5	0.0	
11:17	-14.0	0.0	
11:35	-10.5	0.0	
11:48	-7.5	0.0	
12:02	-4.5	0.0	
12:04	-4.0	0.0	stop

Notes: 1) PID readings are referenced to an isobutylene standard measured using a MiniRae 3000 equipped with a 10.6 eV lamp.

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825

www.dayenvironmental.com

420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

APPENDIX G

SVI EVALUATION SAMPLING LOGS
PRODUCT INVENTORY

SVI Evaluation Sampling Logs

day

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Air Sampling Log

Page 1 of 1

Project #: 5491R-18

Project Address: 962, 966, 972-974 E. Main St

Rochester, NY

Date: 2/25/2020

DAY Representative: CPS/HMM

Start: 9:02

Sample Type: Summa Canister

Sample Location: IA-1

End: 17:02

Canister #: 2804

Sample Designation: IA-1

Test Duration: 8 hr

Regulator #: 01843

Time	Vacuum Gage Reading (inches of Hg)	Background VOC Reading (ppm)	Notes
9:02	-29.50	0.2	
9:10	-29.13	0.1	
9:26	-28.31	0.1	
9:53	-26.91	0.2	
10:08	-26.11	0.2	
10:35	-24.76	0.1	
11:06	-23.18	0.4	
11:37	-21.55	0.3	
12:07	-19.94	0.4	
12:37	-18.35	0.3	
13:07	-16.81	0.4	
13:36	-15.20	0.4	
14:06	-13.66	0.3	
14:38	-12.01	0.4	
15:05	-10.65	0.5	
15:35	-9.09	0.5	
16:04	-7.60	0.5	
16:35	-6.21	0.1	
17:02	-5.89	1.0	

Notes: 1) PID readings are referenced to an isobutylene standard measured using a MiniRae 3000 equipped with a 10.6 eV lamp.

Air Sampling Log

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825

day

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Sub Slab Vapor Sampling Log

Page 1 of 1

Project #: 5491R-18

Project Address: 962, 966, 972-974 E. Main Street
Rochester, NY

Date: 2/25/2020

DAY Representative: CPS/HMM

Canister #: 1940

Slab Thickness: 6"

Sample Location: SS-1

Regulator #: 2683

Probe Depth: 8"

Purge Time: 2 min

Sample Designation: SS-1

Start: 9:02

Backfill Material: Sand

Purge Method: syringe

Test Duration: 8 hr

End: 17:02

Surface Seal: Bentonite

Helium Tracer Testing (2/24/2020)

Chamber Type/Volume: Pail / 1 gallon

Surface Seal: bentonite

He Concentration inside chamber 9.9%

He Measurement from Vapor Point 0 ppm

Time	Vacuum Gage Reading (inches of Hg)	Notes
9:02	-29.57	
9:10	-29.16	
9:26	-28.33	
9:53	-26.86	
10:03	-26.07	
10:35	-24.76	
11:06	-23.17	
11:37	-21.48	
12:07	-19.88	
12:37	-18.26	
13:07	-16.76	
13:36	-15.14	
14:06	-13.64	
14:38	-12.10	
15:05	-10.78	
15:35	-9.37	
16:04	-8.13	
16:35	-6.88	
17:02	-5.09	

Notes: 1) PID readings are referenced to an isobutylene standard measured using a MiniRae 2000 or PPB RAE equipped with a 10.6 eV lamp.

Sub Slab Vapor Sampling Log

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

day
DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

Air Sampling Log

Page 1 of 1

Project #: 5491R-18

Project Address: 962, 966, 972-974 E. Main St
Rochester, NY

Date: 2/25/2020

DAY Representative: CPS/HMM
Start: 8:53
Sample Type: Summa Canister

Sample Location: IA-2
End: 16:53
Canister #: 1877

Sample Designation: IA-2
Test Duration: 8 hr
Regulator #: 0764

Time	Vacuum Gage Reading (inches of Hg)	Background VOC Reading (ppm)	Notes
8:53	-29.71	0.0	
9:13	-28.58	0.0	
9:30	-27.64	0.0	
9:49	-26.62	0.1	
10:04	-25.84	0.0	
10:31	-24.31	0.0	
11:04	-22.70	0.1	
11:36	-21.04	0.1	
12:06	-19.44	0.1	
12:36	-17.77	0.1	
13:06	-16.18	0.1	
13:35	-14.60	0.1	
14:05	-13.05	0.1	
14:37	-11.35	0.1	
15:04	-9.82	0.1	
15:34	-8.30	0.1	
16:04	-6.83	0.1	
16:34	-5.43	0.2	
16:53	-4.71	0.7	

Notes: 1) PID readings are referenced to an isobutylene standard measured using a MiniRae 3000 equipped with a 10.6 eV lamp.

Air Sampling Log

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825

Sub Slab Vapor Sampling Log

Project #: 5491R-18
Project Address: 962, 966, 972-974 E. Main Street
Rochester, NY
Date: 2/25/2020
DAY Representative: CPS/HMM
Canister #: 3046
Slab Thickness: 6"
Sample Location: SS-2
Regulator #: 01286
Probe Depth: 8"
Purge Time: 2 min
Sample Designation: SS-2
Start: 8:53
Backfill Material: Sand
Purge Method: syringe
Test Duration: 8 hr
End: 16:53
Surface Seal: Bentonite

Helium Tracer Testing (2/24/2020)

Chamber Type/Volume: Pail / 1 gallon
Surface Seal: bentonite
He Concentration inside chamber 12.3%
He Measurement from Vapor Point 3300 ppm

Time	Vacuum Gage Reading (inches of Hg)	Notes
8:53	-29.43	
9:12	-28.79	
9:30	-27.86	
9:49	-26.86	
10:04	-26.05	
10:31	-24.56	
11:05	-22.92	
11:36	-21.29	
12:06	-19.20	
12:36	-18.03	
13:06	-16.57	
13:35	-14.96	
14:05	-13.36	
14:37	-11.79	
15:04	-10.34	
15:34	-8.83	
16:04	-7.36	
16:34	-5.98	
16:53	-5.27	

Notes: 1) PID readings are referenced to an isobutylene standard measured using a MiniRae 2000 or PPB RAE equipped with a 10.6 eV lamp.

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

day
DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

Air Sampling Log

Page 1 of 1

Project #: 5491R-18
Project Address: 962, 966, 972-974 E. Main St
Rochester, NY

Date: 2/25/2020
DAY Representative: CPS/HMM
Start: 8:55
Sample Type: Summa Canister
Sample Location: IA-3
End: 16:55
Canister #: 991
Sample Designation: IA-3
Test Duration: 8 hr
Regulator #: 0760

Time	Vacuum Gage Reading (inches of Hg)	Background VOC Reading (ppm)	Notes
8:55	-28.70	0.0	
9:16	-29.03	0.0	
9:24	-28.44	0.0	
9:51	-27.30	0.0	
10:05	-26.50	0.0	
10:30	-25.24	0.1	
11:03	-23.60	0.1	
11:34	-22.07	0.1	
12:03	-20.55	0.1	
12:34	-18.95	0.1	
13;03	-17.45	0.1	
13:34	-15.94	0.2	
14:03	-14.42	0.1	
14:36	-12.80	0.2	
15:04	-11.38	0.1	
13:34	-9.91	0.1	
16:03	-8.45	0.1	
16:35	-7.09	0.1	
16:55	-6.22	0.2	

Notes: 1) PID readings are referenced to an isobutylene standard measured using a MiniRae 3000 equipped with a 10.6 eV lamp.

Air Sampling Log

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825

Sub Slab Vapor Sampling Log

Page 1 of 1

Project #: 5491R-18
Project Address: 962, 966, 972-974 E. Main Street
Rochester, NY
Date: 2/25/2020
DAY Representative: CPS/HMM
Canister #: 1619
Slab Thickness: 6"
Sample Location: SS-3
Regulator #: 01475
Probe Depth: 8"
Purge Time: 2 min
Sample Designation: SS-3
Start: 8:55
Backfill Material: Sand
Purge Method: syringe
Test Duration: 8 hr
End: 16:55
Surface Seal: Bentonite

Helium Tracer Testing (2/24/2020)

Chamber Type/Volume: Pail / 1 gallon
Surface Seal: bentonite
He Concentration inside chamber 4.3%
He Measurement from Vapor Point 13225 ppm

Time	Vacuum Gage Reading (inches of Hg)	Notes
8:55	-30.09	
9:14	-27.71	
9:28	-26.91	
9:51	-25.63	
10:05	-24.90	
10:30	-23.46	
11:03	-21.81	
11:34	-20.13	
12:03	-18.51	
12:34	-16.82	
13:03	-15.20	
13:34	-13.02	
14:03	-11.91	
14:36	-10.27	
15:04	-8.76	
15:34	-7.31	
16:03	-5.91	
16:33	-4.69	
16:55	-3.95	

Notes: 1) PID readings are referenced to an isobutylene standard measured using a MiniRae 2000 or PPB RAE equipped with a 10.6 eV lamp.

Sub Slab Vapor Sampling Log

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

day

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Air Sampling Log

Page 1 of 1

Project #: 5491R-18

Project Address: 962, 966, 972-974 E. Main St

Rochester, NY

Date: 2/25/2020

DAY Representative: CPS/HMM

Start: 9:03

Sample Type: Summa Canister

Sample Location: IA-4

End: 17:03

Canister #: 1856

Sample Designation: IA-\4

Test Duration: 8 hr

Regulator #: 01781

Time	Vacuum Gage Reading (inches of Hg)	Background VOC Reading (ppm)	Notes
9:03	-29.88	0.1	
9:23	-28.76	0.1	
9:36	-28.15	0.2	
9:44	-27.54	0.1	
9:58	-26.97	0.1	
10:10	-26.28	0.1	
10:25	-25.55	0.0	
11:00	-23.48	0.0	
11:30	-22.03	0.0	
12;00	-20.55	0.0	
12:30	-18.59	0.0	
13:00	-17.23	0.0	
13:30	-15.60	0.0	
14:00	-13.93	0.0	
14:30	-12.19	0.1	
15:30	-10.57	0.1	
15:31	-8.81	0.1	
16:00	-7.23	0.1	
16:30	-6.79	0.1	
17:03	-3.71	0.3	

Notes: 1) PID readings are referenced to an isobutylene standard measured using a MiniRae 3000 equipped with a 10.6 eV lamp.

Air Sampling Log

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825

Sub Slab Vapor Sampling Log

Page 1 of 1

Project #: 5491R-18
Project Address: 962, 966, 972-974 E. Main Street
Rochester, NY
Date: 2/25/2020
DAY Representative: CPS/HMM
Canister #: 691
Slab Thickness: 6"
Sample Location: SS-4
Regulator #: 0023
Probe Depth: 8"
Purge Time: 2 min
Sample Designation: SS-4
Start: 9:03
Backfill Material: Sand
Purge Method: syringe
Test Duration: 8 hr
End: 17:03
Surface Seal: Bentonite

Helium Tracer Testing (2/24/2020)

Chamber Type/Volume: Pail / 1 gallon
Surface Seal: bentonite
He Concentration inside chamber 13.1%
He Measurement from Vapor Point 5500 ppm

Time	Vacuum Gage Reading (inches of Hg)	Notes
9:03	-29.58	
9:23	-28.27	
9:36	-27.60	
9:44	-27.15	
9:53	-26.45	
10:10	-25.82	
10:25	-25.09	
11:00	-23.73	
11:30	-21.71	
12:00	-20.23	
12:30	-18.84	
13;00	-17.04	
13:30	-15.52	
14:00	-13.96	
14:30	-12.35	
15:00	-10.86	
15:31	-9.39	
16:00	-8.04	
16:30	-5.54	
17:03	-5.52	

Notes: 1) PID readings are referenced to an isobutylene standard measured using a MiniRae 2000 or PPB RAE equipped with a 10.6 eV lamp.

Sub Slab Vapor Sampling Log

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

Air Sampling Log

Project #: 5491R-18

Project Address: 962, 966, 972-974 E. Main St
Rochester, NY

Date: 2/25/2020

DAY Representative: CPS/HMM
Start: 9:01
Sample Type: Summa Canister

Sample Location: IA-5
End: 17:01
Canister #: 1809

Sample Designation: IA-5
Test Duration: 8 hr
Regulator #: 01552

Time	Vacuum Gage Reading (inches of Hg)	Background VOC Reading (ppm)	Notes
9:01	-29.59	0.0	
9:10	-29.16	0.0	
9:22	-28.59	0.0	
9:33	-27.98	0.0	
9:46	-27.35	0.3	
9:59	-26.74	0.4	
10:27	-26.50	0.1	
11:01	-23.96	0.3	
11:31	-22.22	0.1	
12:01	-20.73	0.3	
12:31	-19.16	0.3	
13:01	-17.68	0.3	
13:31	-16.12	0.4	
14:00	-14.64	0.3	
14:33	-13.02	0.2	
15:01	-11.60	0.5	
15:32	-10.10	0.3	
16:01	-8.64	0.5	
16:31	-7.17	1.1	
17:01	-5.61	1.3	

Notes: 1) PID readings are referenced to an isobutylene standard measured using a MiniRae 3000 equipped with a 10.6 eV lamp.

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825

day
DAY ENVIRONMENTAL, INC.
ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

Sub Slab Vapor Sampling Log

Project #: 5491R-18
Project Address: 962, 966, 972-974 E. Main Street
Rochester, NY
Date: 2/25/2020

DAY Representative: CPS/HMM
Canister #: 2268
Slab Thickness: 6"

Sample Location: SS-5
Regulator #: 01689
Probe Depth: 8"
Purge Time: 2 min

Sample Designation: SS-5
Start: 9:01
Backfill Material: Sand
Purge Method: syringe

Test Duration: 8 hr
End: 17:01
Surface Seal: Bentonite

Helium Tracer Testing (2/24/2020)

Chamber Type/Volume: Pail / 1 gallon
Surface Seal: bentonite
He Concentration inside chamber 14.3% — He Measurement from Vapor Point 14.3%
He Concentration inside chamber 7.9% — He Measurement from Vapor Point 2.1%
He Concentration inside chamber 10.9% — He Measurement from Vapor Point 100 ppm

Time	Vacuum Gage Reading (inches of Hg)	Notes
9:01	-29.53	
9:10	-29.10	
9:22	-28.69	
9:33	-28.06	
9:47	-27.40	
9:59	-26.77	
10:26	-25.48	
11:01	-23.92	
11:31	-22.21	
12:01	-20.78	
12:31	-19.16	
13:01	-17.58	
13:31	-16.13	
14:01	-14.63	
14:33	-13.06	
15:01	-11.66	
15:32	-10.21	
16:01	-8.87	
16:31	-7.57	
17:01	-6.34	

Notes: 1) PID readings are referenced to an isobutylene standard measured using a MiniRae 2000 or PPB RAE equipped with a 10.6 eV lamp.

Sub Slab Vapor Sampling Log

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

day
DAY ENVIRONMENTAL, INC.
ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

Air Sampling Log

Project #: 5491R-18

Project Address: 962, 966, 972-974 E. Main St
Rochester, NY

Date: 2/25/2020

DAY Representative: CPS/HMM
Start: 8:59
Sample Type: Summa Canister

Sample Location: IA-6
End: 16:59
Canister #: 2574

Sample Designation: IA-6
Test Duration: 8 hr
Regulator #: 0235

Time	Vacuum Gage Reading (inches of Hg)	Background VOC Reading (ppm)	Notes
8:59	-29.81	0.0	
9:11	-29.18	0.0	
9:20	-28.67	0.0	
9:31	-28.14	0.0	
9:48	-27.26	0.3	
10:01	-26.58	0.3	
10:29	-25.09	0.2	
11:02	-23.48	0.3	
11:32	-21.78	0.2	
12:02	-20.24	0.2	
12:32	-18.55	0.3	
13:02	-17.00	0.2	
13:32	-15.41	0.4	
14:02	-13.76	0.3	
14:35	-12.03	0.3	
15:02	-10.54	0.3	
15:32	-8.98	0.2	
16:02	-7.37	0.5	
16:32	-5.81	0.5	
16:59	-5.03	0.1	

Notes: 1) PID readings are referenced to an isobutylene standard measured using a MiniRae 3000 equipped with a 10.6 eV lamp.

Air Sampling Log

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825

Sub Slab Vapor Sampling Log

Project #: 5491R-18
Project Address: 962, 966, 972-974 E. Main Street
Rochester, NY
Date: 2/25/2020
DAY Representative: CPS/HMM
Canister #: 1769
Slab Thickness: 6"
Sample Location: SS-6
Regulator #: 01382
Probe Depth: 8"
Purge Time: 2 min
Sample Designation: SS-6
Start: 8:59
Backfill Material: Sand
Purge Method: syringe
Test Duration: 8 hr
End: 16:59
Surface Seal: Bentonite

Helium Tracer Testing (2/24/2020)

Chamber Type/Volume: Pail / 1 gallon
Surface Seal: bentonite
He Concentration inside chamber 5.2%
He Measurement from Vapor Point 5750 ppm

Time	Vacuum Gage Reading (inches of Hg)	Notes
8:59	Not collected	Initial vacuum on tag = -29.2 inches Hg, regulator not working, battery changed
10:29	-24.75	
11:02	-23.02	
11:32	-21.43	
12:02	-19.97	
12:33	-18.33	
13:03	-16.79	
13:32	-15.24	
14:02	-13.71	
14:35	-12.07	
15:02	-10.65	
15:32	-9.10	
16:02	-7.61	
16:32	-6.21	
16:59	-4.34	

Notes: 1) PID readings are referenced to an isobutylene standard measured using a MiniRae 2000 or PPB RAE equipped with a 10.6 eV lamp.

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825
www.dayenvironmental.com

Air Sampling Log

Page 1 of 1

Project #: 5491R-18

Project Address: 962, 966, 972-974 E. Main St
Rochester, NY

Date: 2/25/2020

DAY Representative: CPS/HMM

Start: 8:58

Sample Type: Summa Canister

Sample Location: BG

End: 4:58

Canister #: 1970

Sample Designation: BG

Test Duration: 8 hr

Regulator #: 01606

Time	Vacuum Gage Reading (inches of Hg)	Background VOC Reading (ppm)	Notes
8:58	-30.57	0.0	
9:13	-29.80	0.1	
9:28	-28.98	0.1	
9:52	-27.80	0.0	
10:06	-26.99	0.0	
10:31	-25.66	0.0	
11:04	-23.86	0.0	
11:35	-22.23	0.1	
12:05	-20.69	0.0	
12:35	-18.95	0.0	
13:34	-15.73	0.1	
14:04	-14.18	0.1	
14:36	-12.44	0.1	
15:03	-11.00	0.1	
15:33	-9.40	0.1	
16:02	-8.10	0.1	
16:33	-6.90	0.1	
16:58	-6.03	0.1	

Notes: 1) PID readings are referenced to an isobutylene standard measured using a MiniRae 3000 equipped with a 10.6 eV lamp.

Air Sampling Log

PRODUCT INVENTORY

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Site Name: RSTW   Site Code: ______   Operable Unit: ______

Building Code: ______   Building Name: ______

Address: 962, 966, 972-974 E Main St   Apt/Suite No: NA

City: Rochester   State: NY   Zip: 14605   County: USA

Contact Information

Preparer's Name: Heather McLennan   Phone No: 585-454-0210

Preparer's Affiliation: Day Environmental, Inc.   Company Code: ______

Purpose of Investigation: Prep for SVI   Date of Inspection: 2/20/20.

Contact Name: ~~Heat~~ Brian Miller   Affiliation: ______

Phone No: ~~585-454-0210~~ 585-546-3348 ext 202   Alt. Phone No: ______   Email: bmiller@rstwinc.com

Number of Occupants (total): ~25 staff   Number of Children: Ø

☐ Occupant Interviewed?   ☐ Owner Occupied?   ☐ Owner Interviewed?

Owner Name (if different): RSTW   Owner Phone: ______

Owner Mailing Address: 962 E Main St, Rochester, NY, 14605

Building Details

Bldg Type (Res/Com/Ind/Mixed): Industrial   Bldg Size (S/M/L): S

If Commercial or Industrial Facility, Select Operations: metal treatment

If Residential Select Structure Type: ______

Number of Floors: ~2   Approx. Year Construction: ~1920-1984   ☐ Building Insulated?   ☐ Attached Garage?

Describe Overall Building 'Tightness' and Airflows(e.g., results of smoke tests):

Foundation Description

Foundation Type: slab on grade   Foundation Depth (bgs): unknown   Unit: FEET

Foundation Floor Material: concrete   Foundation Floor Thickness: ~6   Unit: INCHES

Foundation Wall Material: concrete block   Foundation Wall Thickness: ______

☐ Floor penetrations?   Describe Floor Penetrations: monitoring wells - sealed

☐ Wall penetrations?   Describe Wall Penetrations: windows

Basement is: none   Basement is: ______   ☑ Sumps/Drains?   Water In Sump?: yes

Describe Foundation Condition (cracks, seepage, etc.) : ______

☐ Radon Mitigation System Installed?   ☐ VOC Mitigation System Installed?   ☐ Mitigation System On?

Heating/Cooling/Ventilation Systems

Heating System: gas in shipping and customer service, office is gas heated forced air   Heat Fuel Type: gas   ☐ Central A/C Present?

Vented Appliances

Water Heater Fuel Type: gas   Clothes Dryer Fuel Type: ______

Water Htr Vent Location: ______   Dryer Vent Location: ______

1

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

PRODUCT INVENTORY

Building Name: RSTW Bldg Code: Date: 2/20/20.

Bldg Address: 962, 966, 972-974 E Main St, Apt/Suite No:

Bldg City/State/Zip: Rochester, NY, 14605

Make and Model of PID: ppbRAE 3000 Date of Calibration: 2/19/20.

bgrnd PID ~ 0 ppb to

Location	Product Name/Description	Size (oz)	Condition *	Chemical Ingredients	PID Reading (ppb)	COC Y/N?
office ladies rm	Scott's Liquid Gold Wood cleaner + preservative	14	U		31	☐
office men's rm	Clorox Toilet Bowl cleaner	24	8x UO		3	☐
↓	Suave Styling Spray	8.5	U		29	☐
	Smells Begone	12	U		9	☐
↓	Right Guard	4	U		55	☐
Furnace Closet	Clorox Ready Mop		U		2	☐
envelope Cabinet	Ace Flying Insect Killer	18	U		78	☐
	Windex ?	1 qt	1x U 1x UO		39	☐
	Lysol Neutra Air	10	U		33	☐
↓	Clorox disinfecting wipes	1 lb 3.7 oz	2x U		*: 14.92 ppm	☐
office	2-Stroke 50:1 Oil	2.6	UO		161	☐
	office equipment cleaner	6	1x U 1x UO.		2401	☐
	Febreze Air	8.8	UO		581	☐
	Lemon Oil Furniture Polish	19	U	Pet Distillates, dimethylpolysiloxane, propane, butane	2135	☐
	Dust-Off LCD/Plasma Screen Spray	50 mL	U	BioSoft N25-3	5453	☐
↓	Ideal Seal Sealing Soln	?	6x UO	Ideal Seal Sealing Solution	2884	☐

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Product Inventory Complete? ☐ Were there any elevated PID readings taken on site? ☐ ☐ Products with COC?

2

Structure Sampling Questionnaire and Building Inventory
New York State Department of Environmental Conservation

PRODUCT INVENTORY

Building Name: RSTW　　Bldg Code:　　Date: 2/20/20

Bldg Address: 962, 966, 972-974 E Main St　　Apt/Suite No:

Bldg City/State/Zip: Rochester, NY 14605

Make and Model of PID: ppb RAE 3000　　Date of Calibration: 2/19/20.

Location	Product Name/Description	Size (oz)	Condition *	Chemical Ingredients	PID Reading	COC Y/N?
deep freeze	Speed HD / Cal Clean	1 Spray / 1 gal	U / U	Potassium Hydroxide, Sodium tripolyphosphate, sodium metasillicate, alcohol ethoxylate, potassium salt	1392 / 945	
V1+V3	Rustoleum	12	2xU	acetone, liq. pet gas, n-butyl acetate, glycol ethers, xylene	27.20 ppm	
	Citgo Pacemaker 100	55g	U		2086	
	Talon Penetrating Oil + Rust Preventative	11	U	Pet Dis Heavy Paraffinic, Mineral Spirits, Diethylene glycol monobutyl ether, propane	13.62 ppm	
	Castle Thrust Penetrating Oil	15 3/4	U	Pet Dist, hydrotreated heavy naphthenic, Kerosene, ethyl acetate, propane, isobutane	29.17 ppm	
	Ace lawnmower engine oil 10W30	20	U		917	
V5	Edwards V-Lube vacuum pump oil	5 gal pails	3xU		365	
V5+V2	Vaporene 9200	5g	U		1067	
	rustoleum		UO		374	
	Vacuum booster oil V-2/V-5		U		282	
	Kathon™ 725 BF Antimicrobial	5g	U		313	
	Justeq 07	5g	U		363	
	Mag 1 AW ISO32 Hydraulic Oil	1g	UO		250	
V-6+V-7	Pump Oil	1g	U		413	
	Vacuum Pump Fluid Omp Elite 2	1L	U		272	
	molykote	150 gram	U	Dimethyl siloxane, trimethyl siloxy, Silicon dioxide, Silicone metalloid complex	281	

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Product Inventory Complete? ☐　　Were there any elevated PID readings taken on site? ☐　　☐ Products with COC?

3

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

PRODUCT INVENTORY

Building Name: RSTW Bldg Code: Date: 2/20/20

Bldg Address: 962, 966, 972-974 E Main St Apt/Suite No: NA

Bldg City/State/Zip: Rochester, NY, 14605

Make and Model of PID: ppb RAE 3000 Date of Calibration: 2/~~20~~ 19/20.

Location	Product Name/Description	Size (oz)	Condition *	Chemical Ingredients	PID Reading	COC Y/N?
V-7 Paint Cabinet	Oatey H-20 thinning flux	8	U		943	☐
	X-Pando pipe joint compound	14	U	Magnesium Oxide, Limestone, Graphite, Dextrin, magnesium chloride	618	☐
	Klean-strip Japan Drier P	16	U			☐
	Paint	~~12 g~~ 1 gal	U x 13		5768	☐
IT closet	~~ITC~~ Spray-nine cleaner	1 gal	U		643	☐
	Sealant silicone rubber		U		702	☐
	Blow-off Duster	8	U		793	☐
	Febreze Air	8.8	U		718	☐
	Apiezon Sealing compd	1 kg	U	like a bentonite clay	~~688~~ 1039	☐
V-5	Acetone	2x 1qt	UO		651	☐
QA room	Accelerated Calibration Oil	1 qt	U		634	☐
	Toyota Equipment Enamel	12	U x 2		3155	☐
	Blow-off	8	U			☐
	SXOL Industrial Parts Washer Detergent	1 gal	U		422	☐
QA room under counter cabinet	Toyota Equipment Enamel	~~2x~~ 2x 12	U x 2			☐
	LPS PreSolve Orange Degreaser	15	U	Dist Pet Hydrotreated Light, d-limonene, 3-methoxy-3-methyl-1-butanol, CO_2 propellant	5021	☐

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Product Inventory Complete? ☐ Were there any elevated PID readings taken on site? ☐ ☐ Products with COC?

Structure Sampling Questionnaire and Building Inventory
New York State Department of Environmental Conservation

4

PRODUCT INVENTORY

Building Name: RSTW Bldg Code: Date: 2/20/20

Bldg Address: 962, 966, 972-974 E. Main St Apt/Suite No: NA

Bldg City/State/Zip: Rochester, NY, 14605

Make and Model of PID: ppb RAE 3000 Date of Calibration: 2/19/20.

Location	Product Name/Description	Size (oz)	Condition *	Chemical Ingredients	PID Reading	COC Y/N?
QA room	WD-40	16		pet dist	707	☐
	Blow off	8	2x UO			☐
	Permatex High Tack Gasket Sealant	4	3x UO	acetone, hexane, rosin, acrylic polymer	4255	☐
	Oatey purple primer	4	U	Acetone, cyclohexanone, MEK tetrahydrofuran,	1164 ppm	☐
	Oatey regular clear PVC cement	4	U	MEK, cyclohexanone, acetone tetrahydrofuran, PVC resin	897.3 ppm	☐
	loctite tight foam	12	UO	polyurethane polymer, methylene diphenyl diisocyanate, dimethyl, HC	542	☐
	loctite construction adhesive	4	U	pet distillates + methylene diisocyanate	728	☐
Staff bathroom	Ace Flying Insect Killer					☐
STA-DRI staging area	SXOL Industrial Parts Washer Det	1 gal	4x UO.		9921	☐
lunch room shelves	CRC battery cleaner				1727	☐
	LPS Pre Solve Orange Degreaser	15	UO		3906	☐
	WD-40	1 gal	UO	Pet Dist.		☐
	Talon Contact cleaner	10	UO x 3	Acetone, toluene, CO_2, HCs Lt. Aliphatic HC solvent, Heptane	6617	☐
Shower room	Ajax powder				570	☐
	Non-Acid Disinfectant Bathroom Cleaner	32	U			☐
	paint - oil based	1 gal	U x3			☐

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Product Inventory Complete? ☐ Were there any elevated PID readings taken on site? ☐ ☐ Products with COC?

5

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

PRODUCT INVENTORY

Building Name: RSTW Bldg Code: Date: 2/20/20

Bldg Address: 962, 966, 972-974 E Main St. Apt/Suite No: NA

Bldg City/State/Zip: Rochester, NY, 14605

Make and Model of PID: ppbRAE 3000 Date of Calibration: 2/19/20.

Location	Product Name/Description	Size (oz)	Condition *	Chemical Ingredients	PID Reading	COC Y/N?
mezzanine	paint	1 gal	u		3177 max	
	LPS bearing grease	14.1	uo		180	
	Parker oil # F442	1 gal	u		148	
	Simple green	1 gal	u		160	
	Concrete bonding adhesive	1 qt	u		181	
	muriatic acid	1 gal	u		149	
	All purpose machine oil 22	1 gal	u		151	
	DAP ready mix concrete patch	1 gal	u		146	
	Econo glass cleaner	1 gal	u		145	
	Compressor Oil	~~1 gal~~ 5 gal	5x uo		176	
	Paint	1 gal	3xu		167	
	10W 40	1 qt	u		152	
	BAC Sleeve bearing oil	12 oz?	u		207	
	Ace linseed oil	1 qt +1 gal	u		446	
	Acrolon 218 HS Sherwin Williams	18	u		203	
	Paint	12 oz spray pt	15 3		532	

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Product Inventory Complete? [ ] Were there any elevated PID readings taken on site? [ ] ☐ Products with COC?

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

6

PRODUCT INVENTORY

Building Name: RSTW. Bldg Code: Date: 2/20/20

Bldg Address: 962, 966, 972-974 E Main St Apt/Suite No: NA

Bldg City/State/Zip: Rochester, NY, 14605

Make and Model of PID: ppbRAE 3000. Date of Calibration: 2/19/20.

Location	Product Name/Description	Size (oz)	Condition *	Chemical Ingredients	PID Reading	COC Y/N?
Mezzanine	LPS CFC Free Nu	11	u	2-methyl pentane, 1,1,1,2-tetrafluoroethane 3-methyl pentane, 2,3-dimethylbutane 2,2-dimethylbutane, hexane	141	
Maintenance cart	Acetone	1qt	u		998	
	Thermaplex bearing grease	14.1	u	Pet oil, aluminum benzoate stearate, alkyl sulfide dialkyl dithio carbamate	613	
	Talon Contact Cleaner	10	u	Acetone, toluene, heptane, CO lt aliphatic HC solvent, methyl cyclohexane	3031	
	Talon Penetrating Oil + Rust Preventative	11	u	Pet Dist, mineral spirits, diethylene glycol monobutyl ether, propane	680	
	LPS PreSolve Orange Degreaser	15	u	See previous	710	
QC	Copper Ammonium	1ab	u		1542	
Customer Service	Nitric Acid / water	Cont ~~8~~	u		4304	
	diamond suspension monocrystalline	8	u		1834	
	diamond suspension monocrystalline	8	u		1857	
	diamond extender blue lube	8	u		3922	
	~~WD-40~~	~~1 gal~~	~~u~~		~~3922~~	
	denatured alcohol	1 gal	u		2201	
	PSI-1664 ~~#~~ Rust inhibitor	1 gal	u		1839.	
	Nital Etchant	1 gal	u		1968	
	PSI-542-4	1 gal	1x4 1x40.		1819	

Blu ~ 1800-2000

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Product Inventory Complete? Were there any elevated PID readings taken on site? Products with COC?

Structure Sampling Questionnaire and Building Inventory
New York State Department of Environmental Conservation

7

PRODUCT INVENTORY

Building Name: RSTW   Bldg Code: ____   Date: 2/20/20

Bldg Address: 962, 966, 972-974 E Main St   Apt/Suite No: NA

Bldg City/State/Zip: Rochester, NY, 14605

Make and Model of PID: ppb RAE 3000.   Date of Calibration: 2/19/20.

Location	Product Name/Description	Size (oz)	Condition *	Chemical Ingredients	PID Reading	COC Y/N?
Shed	Pipe thread sealant	8	U		820	☐
	SAE ND 30	1qt	5- 4UO 1U		562.	☐
	mobil SHC ISO VG 220	1qt			734	☐
	loctite LB 8008	1 lb	2xU		461	☐
	Sprayon Flash Free Electrical Degreaser	17	U	TCE, CO2	883	✓
	Talon Penetrating Oil + Rust Preventative	11	U	See above	596	☐
	Rustoleum	12	2x UO.		~~596~~	☐
	Oatey Purple Primer	4	U	See above	1252ppm	☐
	Oatey Regular PVC cement	4	U	↓	886	☐
	Talon Chlorinated Brake Cleaner	18.5	U	PCE, CO_2	604	✓
	Lubriplate Chain and Cable fluid	11	U	CO_2, Pet dist, 2-butoxy ethanol naphthenic dist	914	☐
	Drummond Open + Shut Open	20	U	PCE, Pet oil, CO_2, Paraffin Wax	443	✓
~~caf~~ moved to shed	Talon white lithium grease	12	UO	PCE	1218	✓
						☐
						☐
						☐

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Product Inventory Complete? ☐   Were there any elevated PID readings taken on site? ☐   ☐ Products with COC?

Project No. 5491R-18

FIGURE 2

Project Title
962, 966, 972-974 EAST MAIN STREET
ROCHESTER, NEW YORK
NYSDEC SITE NO. C828210
SOIL VAPOR INTRUSION EVALUATION

Drawing Title
Site Plan with Proposed Soil Vapor and Indoor Air Sample Locations

day
DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170

PROJECT MANAGER	DATE
HMM	02-2020
DRAWN BY	DATE DRAWN
CPS	02-2020
SCALE	DATE ISSUED
AS NOTED	02-14-2020