PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT

65 SULLIVAN STREET
ROCHESTER, NEW YORK

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1.0 INTRODUCTION

On behalf of the City of Rochester (City), Day Environmental, Inc. (DAY) prepared this Phase II Environmental Site Assessment (Phase II ESA) at the property addressed as 65 Sullivan Street, Rochester, New York (Site). A Project Locus Map is included as Figure 1, and a Site Plan that includes an overlay of a 2018 aerial photograph depicting current site conditions is included as Figure 2. The work presented herein was completed in accordance with DAY's April 11, 2019 Work Plan.

1.1 Background

The Site consists of one 0.69-acre parcel (SBL #106.39-1-33) of vacant land that is currently zoned as R-2 (Medium Density Residential). The Site is privately owned and tax delinquent. The City obtained access to the Site for performance of this Phase II ESA through a Temporary Incidents of Ownership (TIO).

The City has been coordinating with a developer regarding construction of a potential multi-parcel in-fill residential housing project generally located northwest, west, and southwest of the Site. It is unknown whether the Site contained contamination, and whether contamination had adversely impacted any adjoining or nearby properties, including those currently proposed for the potential multi-parcel in-fill residential housing project.

In 2016, a one-story manufacturing building with a partial basement on the Site was demolished by the City. During this demolition, the foundation walls were removed with the exception of one foundation wall adjoining a neighboring building to the east. In addition, the basement slabs were cracked, but not removed. At the time of demolition, a sump crock and miscellaneous floor drains were observed in the basement of the building. The basement was subsequently backfilled with clean structural fill that was compacted with a vibratory roller. Existing material around the basement perimeter was borrowed and partially used to backfill the basement. Subsequent to backfilling, the Site was graded and a layer of topsoil and grass seed was applied. Wood bollards were then installed along the open perimeter (three sides) of the Site.

A Limited Due Diligence Assessment (LDDA) was performed by DAY on the Site on behalf of the City, which determined that the Site has over a 100-year history of commercial and manufacturing use. The manufacturing and commercial use of the Site is outlined below.

- Tailor Shop – At least 1903 and 1909
- Clothing Manufacturing: At least 1924 to 1964
- Fighton Inc.: At least 1969
- Metal Stamping: At least 1974
- Metal Stamping Power Supplies and Transformers: At least 1979 through 1994
- Service Industrial Machine: At least 1999
- Vacuum Cleaners, Printers: At least 2009

The manufacturing building formerly located on the Site included a boiler room. The fuel type for the boiler room is unknown; thus, it was suspected that a fuel oil tank could have been associated with the boiler room. The operations conducted at the facility also involved an industrial oven (or possibly kiln) operation, and spraying or dipping operations in the former basement level.

Fire Department records show a long history of chemical, flammable, combustible material storage and use. There are records concerning storage of drums or containers of "Trichlor", waste oil, paints, flammable wastes, cutting oils, and corrosives. Fire Department records also indicated there was a paint spray booth, a flammable storage room, the presence of highly toxic materials, and drum storage at exterior locations and interior locations, including the basement and a garage. Waste disposal records identified paint solids/grease with metal, waste paint, chlorotribenzofluorides, and other wastes.

DAY completed a Phase I Environmental Site Assessment (Phase I ESA) of the Site. DAY's April 10, 2019 Draft Phase I ESA report identified the following recognized environmental conditions (RECs) for the Site:

1. Historical Uses / Regulatory Listing of the Site: The Site was used as a tailor shop; a clothing factory; metal stamping, and the apparent manufacture of transformers and vacuum cleaners; and an apparent printing operation. A freight elevator (i.e., including the potential for subsurface hydraulic equipment) was replaced in 1974. A boiler room (i.e., including the potential for fuel oil storage) was constructed on the property in 1918. A City representative stated, "City records indicate past industrial/chemical usage. Liquid in a pit set in the floor of the building had an unknown chemical odor". The analytical laboratory results of a sample of the liquid contents of the pit detected elevated concentrations of the volatile organic compounds (VOCs) acetone and methyl acetate, and the metals chromium, lead and selenium. In addition, the City observed an oven inside the partial basement of the former facility prior to its demolition. Labeling on the oven indicated it was capable of being used with flammable solvents. Approximate locations of the former pit and former oven are shown on Figure 2, Figure 3, and Figure 7 through Figure 12.

   The Site is identified as inactive Resource Conservation and Recovery Act (RCRA) Generator of hazardous waste Site #NYD000233601. Based on a review of the New York State Department of Environmental Conservation (NYSDEC) Manifest website, Eltrex Industries, Inc. used this Generator number to dispose of waste from 1984 to 1999. The types of wastes generated during this time period included thinner paint-stripper; isopropanol; petroleum distillates; toluene, hexane, xylene; empty poly drums; empty drums; waste paint related material; waste 1,1,1-trichloroethane; waste flammable solids (butyl acetate, acetone); waste oxidizing liquid, corrosive; hypochlorite solutions; ferrous chloride; methylene chloride; waste chlorobenzotrifluorides; naptha solvent; oil; waste corrosive liquid (sulphuric acid, hydrochloric acid, phosphoric acid); waste phosphoric acid; etc. In addition, the City is identified as generating two 100-gallon shipments of "waste environmentally hazardous substance, liquid, n.o.s. (mineral spirits, selenium)" under this generator number on 3/6/2017.

2. Historical Uses of Adjoining Properties: Adjoining properties to the east have included an automobile repair garage in at least 1923 and at least 1933-34; a furniture store in at least 1928-29; a tailor (i.e., including the potential of dry cleaning operations) in at least 1933-34; a window shade manufacturing facility from at least 1938 to at least 1971; a heating and air conditioning company from at least 1958 to at least 1968; and a sheet metal facility from at least 1959 to at least 1971. In addition, Sanborn maps identify a gasoline tank (i.e., "G.T.") on the southern portion of the adjoining property to the east from at least 1933 to at least 1950.

   Adjoining properties to the southeast across O'Brien Street have included an automobile repair garage/sales facility in at least 1923; a whitewasher in at least 1923; a tinsmith from at least 1923 to at least 1959; a sheet metal worker from at least 1928-29 to at least 1943; a tile setter in at least 1928-29; a bottling company from at least 1933-34 to at least 1959: a photographer in at least 1943; a plumbing and heating company from at least 1948 to at least 1953; a hardware store from at least 1963 to present; and a construction company from at least 1978 to at least 1983-84.

   The adjoining property to the west was identified as a "Tailoring School" (i.e., including the potential for dry cleaning operations) from at least 1959 to at least 1971.

   An adjoining property to the south has a documented closed spill file (NYSDEC Spill #9703396). The spill file indicates that #2 fuel oil contaminated soil was encountered during excavation of a foundation. Contaminated soil was removed and subsequent soil and groundwater sampling were non-detect. A review of a January 24, 2002 letter from the City to the NYSDEC concerning this spill indicated that no staining or odors were noted during the soil and groundwater sampling, but that a slight to moderate weathered petroleum odor was noted from the 8 to 10 foot depth interval at a monitoring well location. A Photoionization detector (PID) reading of 12.7 parts per million was also detected on this soil sample. It was unknown whether any of this residual contamination had migrated off-site.

1.2 Objectives

The objectives of the Phase II ESA were to:

1. Confirm the presence or absence of the RECs identified in the Phase I ESA;
2. Assess if sources of contamination exist on the Site in soil or groundwater;
3. Generally define the nature and extent of contamination, if present;
4. Evaluate if contamination attributable to the Site is migrating off-site;
5. Identify potential remedial actions that may be warranted; and
6. Aid the City on deciding whether to acquire the Site through foreclosure or other means.

2.0 PHASE II ESA SCOPE OF WORK

The following section describes the scope of work that was implemented to fulfill the objectives of the Phase II ESA. Figure 3 is a Site Plan that includes a 2015 aerial overlay showing the location of the former building in relation to the Phase II ESA test locations. Figure 3 also shows the approximate locations of a former pit and a former oven that were observed inside the former building prior to its demolition in 2016. Figure 4, Figure 5, and Figure 6 show the Phase II ESA test locations in relation to site features on 1933, 1959 and 1971 Sanborn maps, respectively. Figure 3 through Figure 6 also show adjoining and nearby parcels owned by the City (as of April 2019), some of which are associated with a developer's potential multi-parcel in-fill residential housing project. A photo log depicting various phases of the fieldwork is included in Appendix A.

Table 1 summarizes the analytical laboratory testing program, which includes sample locations, depths, dates collected, associated PID readings, if available, visual and olfactory observations and test parameters. Table 1 also includes details on quality assurance/quality control (QA/QC) samples, such as matrix spike/matrix spike duplicate (MS/MSD) samples and trip blank samples, that were tested as part of the Phase II ESA. The work conducted as part of the project, including sampling and analysis and QA/QC requirements, was generally consistent with the guidance in the NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation.

ALS Environmental (ALS) performed the analytical laboratory testing associated with this project. ALS is a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-certified analytical laboratory (ELAP ID #s 10145 and 11221). ALS report test results in preliminary data packages, Analytical Services Protocol (ASP) Category B deliverable data packages, and NYSDEC EQuIS Excel files. Sample methods, preservation requirements, handling times, chain-of-custody, decontamination procedures for field equipment, field blanks, and trip blanks conformed with NYSDEC ASP.

2.1 Geophysical Survey

On April 13, 2019, Wood Environment & Infrastructure Solutions, Inc. (WOOD) completed a geophysical survey over the western portion of the Site. Specifically, the survey was conducted in areas of a former boiler room and a former house where a fuel oil tank would most likely be suspected. The purpose of the geophysical survey was to identify anomalies that suggest the location of suspected underground storage tank (UST) systems, which were considered during planning of intrusive work.

WOOD utilized electromagnetic techniques (EM61) to conduct the geophysical survey. Line spacing was approximately 3.3 feet. The portion of the Site where the geophysical survey was completed, and WOOD's findings (including color contours that show anomalies where abandoned USTs were suspected), are included on Figure 7. As shown, five anomalies (designated A through E) were identified on the surveyed area of the Site of a size that could be indicative of a buried tank. As shown on Figure 7, test pits TP-06, TP-07 and TP-08 presented in Section 2.2.1 were positioned to evaluate the subsurface conditions in proximity of anomaly areas A through E.

2.2 Subsurface Soil/Fill Evaluation

A subsurface soil/fill evaluation was performed as part of this Phase II ESA for the Site. The evaluation included the excavation of eight test pits, the advancement of eight rotary-drilled test borings, and the collection, field screening, field observation, and environmental laboratory analysis of soil/fill samples. Prior to the fieldwork, DAY used swing ties from permanent site features to mark-out the location of each test pit and test boring advanced during this study. Additional details concerning the subsurface evaluation work are provided in the subsections below.

2.2.1 Test Pits

On May 1, 2019, Nature's Way Environmental Consultants & Contractors, Inc. (Nature's Way) excavated eight test pits (designated as TP-01 through TP-08) to depths ranging between 8.0 feet (ft.) and 11.5 ft. below the ground surface (bgs) using a Kubota KX057-4 excavator. The locations of these test pits are shown on Figure 2 through Figure 7. Figure 7 also includes the geophysical survey findings overlay. Test pits were excavated in the following areas:

- Test Pit TP-01 was advanced in the general area of a former residential house (refer to Figure 4).
- Test Pits TP-02 and TP-04 were excavated in a former courtyard area (refer to Figure 3 through Figure 6).
- Test Pits TP-03 and TP-05 were advanced within the former footprint of the slab-on-grade portion of the building (refer to Figure 3 through Figure 6).
- Test pits TP-06, TP-07 and TP-08 were used to evaluate subsurface conditions in anomaly areas A though E (refer to Figure 7). In addition, test pits TP-07 and TP-08 were located in the areas of a former boiler room (refer to Figure 4 and Figure 5).

Personnel from DAY and the City observed the excavations and prepared a subsurface log of the test pits. DAY screened soil/fill during excavation with a PID equipped with a 10.6 eV lamp to assess the potential presence of VOC impact, and collected select samples for possible laboratory analysis. Pertinent information for each test pit is provided on logs included in Appendix B. Upon completion, the test pits were backfilled with excavated material, and compacted by tamping with the excavator bucket.

2.2.2 Rotary-Drilled Test Borings

Between May 7, 2019 and May 14, 2019, Nature's Way advanced nine test borings (designated as TB-01 through TB-03, TB-03A, MMW-01 though MW-05) using a Mobile B-57 rotary drill-rig. The locations of these test borings are shown on Figure 2 through Figure 6. Test borings were advanced in the following areas:

- Test Borings TB-01, TB-02, TB-03, TB-03A, MW-01, MW-03 and MW-05 were advanced within the former footprint of the portion of the building that the City reported had a basement (refer to Figure 3 through Figure 6). In addition, TB-01 was near the approximate location of an oven inside the former building that was reported by a City representative. TB-03A was advanced as an off-set boring since shallow equipment refusal was encountered at TB-03.

- Test Boring MW-02 was advanced within the former footprint of a slab-on-grade portion of the building near the approximate location of an oven inside the former building that was reported by a City representative (refer to Figure 3 through Figure 6).
- Test Boring MW-04 was advanced within the former footprint of a slab-on-grade garage portion of the building where a City representative reported observing the storage of chemicals (refer to Figure 3 through Figure 6).

During drilling, split-spoon samples were collected via Standard Penetration Test (SPT) methods in the overburden ahead of the hollow stem augers. Split-spoon soil samples were classified, logged, and also screened with the PID. Selected soil samples were retained for possible analytical laboratory testing. Each boring was advanced to auger refusal, which corresponds to depths ranging between 4.0 feet bgs (TB-03) and 14.3 feet bgs (MW-05). At test locations MW-01 through MW-05, between 4.0 and 5.3 ft. of bedrock was cored. Pertinent information for each test boring is provided on logs included in Appendix B.

2.2.3 Analysis of Soil/Fill Samples

Various soil or fill samples from test pits and rotary-drilled test borings were selected for analytical laboratory testing (refer to Table 1). Samples selected for analytical laboratory testing included:

1) Samples from test pits and test borings with the greatest apparent field evidence of impact (e.g., highest PID measurements, staining, suspect fill material, odors, etc.);

2) Samples collected from immediately above the water table, immediately above bedrock, or near the bottom of the test boring/test pit when evidence of impact was not encountered; and

3) Samples based on spatial relationship to overlying fill material and/or other test locations to evaluate vertical and lateral extents of potential impact.

The following samples were delivered under chain-of-custody control to ALS. The submitted samples were comprised of fill and native soil as follows:

- Fill Material Samples: TP-01(1-2), TP-02(2-4), TP-04(4-5), TP-07(8-8.5), TP-08(4-5), TB-01(6-8), TB-02(4-6), TB-03A(7.8-8.8), MW-01(2-4), MW-01(6-6.9), MW-03(4-6), and MW-05(4-6).
- Indigenous Soil Samples: TP-03(10-11), TP-05(8-8.5), TP-06(10-10.5), MW-02(10-12), MW-04(6-7) and MW-05(8-10).

Samples were analyzed for one or more of the following:

- Target Compound List (TCL) and Commissioner Policy 51 (CP-51)-list/NYSDEC Spill Technology and Remediation Series (STARS) list VOCs using United States Environmental Protection Agency (USEPA) Method 8260;
- TCL semi-volatile organic compounds (SVOCs) using USEPA Method 8270;
- Target Analyte List (TAL) metals using USEPA Methods 6010 and 7471;
- Polychlorinated Biphenyls (PCBs) using USEPA Method 8082;

Specific information on what parameters were tested for each sample are included on Table 1.

2.3 Groundwater Evaluation

A groundwater evaluation was performed as part of this project. This evaluation included: installation and development of five groundwater monitoring wells; survey of well locations using global positioning system (GPS) and laser level equipment in relation to City of Rochester datum; collection of one round of static water levels from the five monitoring wells; collection of one round of groundwater samples from the five monitoring wells; and analytical laboratory testing of the one round of groundwater samples that were collected from the wells. Additional details concerning the groundwater evaluation work is provided in the subsections below.

2.3.1 Monitoring Well Installation

Between May 8, 2019 and May 14, 2019, test borings MW-01 through MW-05 were converted to groundwater monitoring wells, refer to Figure 2 through Figure 6. Each groundwater monitoring well was constructed with a 2-inch inner diameter Schedule 40 polyvinyl chloride (PVC) screen attached to solid riser piping of the same material. The five monitoring wells were installed as overburden/bedrock interface wells where the screened intervals spanned the overburden and upper bedrock since the top of the uppermost groundwater table was generally observed at or near the top of the bedrock. Pertinent information for each monitoring well is included on monitoring well construction diagrams that are included in Appendix B.

2.3.2 Well Development

On May 17, 2019, the five groundwater monitoring wells were developed by removing groundwater from each well and taking water quality measurements using a YSI ProDSS water quality meter. DAY screened the ambient air inside each of the five wells with a PID upon being opened, and PID readings in parts per million (ppm) were recorded. The above information is summarized on well development logs that are included in Appendix B.

2.3.3 Groundwater Sampling and Analysis

On June 6, 2019, DAY obtained water level measurements and checked for light non-aqueous phase liquid (LNAPL) and dense aqueous phase liquid (DNAPL) using an oil/water interface probe in each of the five on-site monitoring wells. Groundwater samples were subsequently collected from each well using a conventional purge and sample technique. Monitoring well sampling logs are included in Appendix B. The groundwater samples were submitted to ALS, which analyzed the samples for TCL and CP-51 VOCs using USEPA Method 8260.

A trip blank sample accompanied the June 6, 2019 groundwater samples to ALS (designated as sample TB060619). The trip blank sample was analyzed by ALS for TCL and CP-51 list VOCs using USEPA Method 8260.

Marques and Associates, P.C. (Marques) surveyed the locations of each well in relation to NAD83/2011, NYS Plane Coordinate System. West Zone, Transverse Mercator Projection. Marques also surveyed the elevations of the ground and top of inner PVC casing at each monitoring well in relation to the NAVD 88 datum.

2.4 Soil Vapor Evaluation

On May 15, 2019, Nature's Way used the rotary drill-rig to install a soil vapor point SV-01 on the adjoining 59 Sullivan Street parcel, which is owned by the City. The location of the soil vapor point is depicted on Figure 2 through Figure 6 show. Split Spoon samples were collected in consecutive intervals from the ground surface to a depth of approximately eight feet bgs at the soil vapor point boring. A DAY representative observed the split spoon samples retrieved from SV-01 for field evidence of contamination (e.g., staining, free product, sheen, odors), screen samples of material for total VOCs using a PID, and logged the lithology and water content conditions. This information, as well as other pertinent information, is recorded on a test boring log (copy included in Appendix B).

Nature's Way then installed a temporary soil vapor point in the boring that consisted of a 0.5-foot long screen tip fitted with a guide that was connected to solid tubing. The bottom of the screen was placed approximately six feet bgs in order to be above the groundwater table observed within the boring. The solid tubing extended above the ground surface. The annulus between the tubing and borehole walls was backfilled with clean sand, and the top of the borehole above the sand was backfilled with hydrated bentonite. Pertinent information is recorded on a soil vapor probe construction diagram (copy included in Appendix B).

On June 25, 2019, a tracer gas test (helium) was conducted to ensure the temporary soil vapor sampling point was tight. A soil vapor sample (designated as SV-01) was collected from the soil vapor point over a two-hour and nine-minute period using a summa canister connected to a pre-calibrated regulator. An upwind outdoor background air sample (designated as OA-01) was simultaneously collected over a two-hour and seven-minute period using a summa canister connected to a pre-calibrated regulator. Pertinent information is recorded on soil vapor sampling event logs included in Appendix B.

Following collection of the soil vapor sample SV-01, the temporary soil vapor point tubing was pulled from the ground, and the test boring was backfilled with sample cuttings that had no field evidence of impact.

The soil vapor sample and outdoor air sample were submitted to ALS under chain-of-custody control for analytical laboratory testing. As shown on Table 1, ALS tested soil vapor sample SV-01 and outdoor air sample OA-01 for USEPA TCL VOCs using USEPA Method TO-15.

2.5 Study-Derived Wastes

Solid investigation-derived waste (IDW) generated as a result of the Phase II ESA was placed in five New York State Department of Transportation (NYSDOT) approved 55-gallon drums, and liquid IDW as a result of the Phase II ESA was placed in four NYSDOT-approved 55-gallon drums. The solid IDW consisted primarily of soil cuttings, with lesser amounts of drilling fines and decontamination sediments. The liquid IDW consisted of well development and purge waste and decontamination water. Based on the VOC groundwater test results, the liquid IDW was characterized as hazardous waste. On June 28, 2019, a composite sample of the solid IDW was collected from the five drums and tested for Toxicity Characteristic Leaching Procedure (TCLP) VOCs via Methods 1311 and 8260. Based on cumulative total analytical laboratory results for soil samples collected from monitoring well locations, as supplemented with the TCLP VOCs results, the solid IDW was characterized as a non-hazardous waste.

On July 2, 2019, the solid IDW was consolidated into three 55-gallon drums, and the liquid IDW was consolidated into three 55-gallon drums. On July 17, 2019, the three drums of solid IDW and the three drums of liquid IDW were picked up at the Site by Sun Environmental Corp. (SUN), and transported to Cycle Chem, Inc. in Lewisberry, PA for disposal. A copy of disposal documentation for the IDW is included in Appendix C.

3.0 FINDINGS

The results and findings of this project are presented in this section of the report.

3.1 Subsurface Soil/Fill Evaluation

Based on the subsurface studies completed to date, much of the Site is covered by 0.5 foot or less layer of topsoil. Heterogeneous fill material is present beneath the topsoil. This fill generally consists of reworked soil (i.e., various mixtures of silt, sand, gravel, cobbles, boulders and clay) with trace to some amounts of brick, concrete, wood, metal, and rock Trace to little amounts of ash, cinders, asphalt, coal, glass, rubber, plastic, and slag were also occasionally observed in the fill material. Some of the fill was black in color, and this fill commonly contained higher amounts of cinders. It is presumed that much of the concrete, brick, cobbles, boulders, and cinders may be associated with former buildings located on the Site. In a few instances, fill material within the footprints of former buildings extended to apparent basement floors that were left in-place during their demolition. At other locations, the fill was underlain by indigenous soils. Test locations within the footprint of former buildings on the Site generally contained the greatest thickness of fill, with the greatest thickness of fill (9.5 ft.) being observed in TP-02, TB-01 and TB-03A which are located within the footprint of the former manufacturing building. The average fill thickness for the Site was calculated to be approximately 6.8 ft. Based on the average thickness, it is estimated that approximately 7,570 cubic yards (i.e., 12,490 tons) of fill material is present at the Site.

Indigenous soils beneath the fill material generally consists of various mixtures of sand and silt that occasionally contained trace to some gravel, cobbles, boulders, fractured rock (e.g., shale or dolomite) and/or clay with lesser amounts of gravel. In some locations, the overburden soil was underlain by gray fractured Shale, which was underlain by harder gray Dolomite of the Eramosa (Lockport) Formation. At other locations, the overburden appeared to be immediately underlain by the gray harder dolomite. Based on rock cores collected from monitoring well locations MW-01 through MW-05, Rock Quality Designation (RQD) calculations ranged between 30.2% (MW-02) and 69.8% (MW-03) for the upper 4.0 to 5.3 feet of bedrock. The average RQD is 52.5%, which is indicative of weathered bedrock.

As shown on Table 2, the depth to competent bedrock (i.e., the Dolomite) at the five monitoring well locations ranged from approximately 10.3 ft. bgs (MW-01) to 14.2 ft. bgs (MW-04). The average depth to bedrock in these test borings is approximately 12.4 ft. bgs. Ground surface elevations and depth to top of competent bedrock information were used to calculate elevations for the top of bedrock at the five monitoring wells, which was then used to create a bedrock contour map that is included as Figure 8. As shown, the top of bedrock at the Site appears to slope towards the southeast and the difference between the highest (MW-01) and lowest (MW-04) measured top of bedrock elevations is 2.24 ft.

3.1.1 Analytical Laboratory Test Results for Soil/Fill Samples

Soil/Fill sample test results for TCL VOCs, TCL SVOCs, TAL metals and PCBs are summarized on Table 3, Table 4, Table 5 and Table 6, respectively. Copies of the ALS laboratory reports are included in Appendix D. Although the Site is not currently within an environmental program mandated by the NYSDEC, the test results for the soil/fill samples that were tested as part of this study are compared to the following criteria referenced in the

NYSDEC document titled "*6 NYCRR Part 375, Environmental Remediation Programs*" dated December 14, 2006.

- Unrestricted Use Soil Cleanup Objectives (UUSCOs);
- Residential Use Soil Cleanup Objectives (RSCOs);
- Restricted Residential Use Soil Cleanup Objectives (RRSCOs);
- Commercial Use Soil Cleanup Objectives (CSCOs); and
- Protection of Groundwater Soil Cleanup Objectives (PGWSCOs).

The test results and comparison to the above criteria are further discussed below. Comparisons to UUSCOs and RSCOs also assist in evaluating potential re-use of soil and fill both on-site and off-site in accordance with Part-360 regulations and other applicable state and federal regulations.

VOCs

As shown on Table 3, VOCs were detected in each of the 16 samples that were tested. VOCs detected in one or more sample included: 1,1,1-trichloroethane; 1,1-dichloroethane; acetone; benzene; 2-butanone (MEK); sec-butylbenzene; carbon disulfide; chloroform; cyclohexane; ethylbenzene; methyl acetate;; methyl tert-butyl ether; isopropylbenzene; 4-isopropyltoluene; 4-methyl-2-pentanone (MIBK); methylcyclohexane; naphthalene; n-propylbenzene; tetrachloroethene; toluene; trichloroethene; trichlorofluoromethane (Freon 11); cis-1,2-dichloroethene; trans-1,2-dichloroethene; 1,2,4-trimethylbenzene; 1,3,5-trimethylbenzene; m,p-xylene; n-butylbenzene; and o-xylene. Concentrations of specific VOCs detected ranged between 0.00017 and 6.5 milligram per kilogram (mg/kg) or ppm. Many of the detected concentrations were qualified as estimated (designated by a "J" next to constituent concentration on summary tables) by the analytical laboratory since they were detected below the method detection limit. [Note: The VOCs acetone and methyl acetate can be laboratory artifacts; thus, the concentrations detected in the field samples could be attributable (or partly attributable) to laboratory artifacts.]

As shown on Table 3, the VOCs acetone, trichloroethene, and/or 2-butanone (MEK) were detected in 14 of the 16 soil and fill samples at concentrations exceeding their respective UUSCOs and PGWSCOs (refer to Figure 9 and Figure 10). Nine of the samples consisted of fill material, and five of these samples consisted of apparent indigenous soil. The remaining two apparent indigenous soil samples tested did not contain a VOC concentration exceeding UUSCOs. No detected VOC concentrations exceeded RSCOs, RRSCOs or CSCOs. A summary of the detected VOCs exceeding one or more SCOs is as follows:

- Samples TP-01(1-2), TP-02(2-4), TP-06(10-10.5), TP07(8-8.5), TP-08(4-5), TB-02(4-6), TB-03A(7.8-8.8), TB-01(6-8), MW-04(6-7), MW-01(6-6.9) and MW-05(8-10) contained TB-07 (5.5) contained acetone at concentrations exceeding its UUSCO and PGWSCO. [Note: The acetone detected in these samples may be a laboratory artifact.]
- Sample TP-03(10-11) contained trichloroethene at a concentration exceeding its UUSCO and PGWSCO.

- Sample MW-02(10-12) contained acetone and trichloroethene at concentrations exceeding their UUSCOs and/or PGWSCOs. [Note: The acetone detected in this sample may be a laboratory artifact.]
- Sample MW-03(4-6) contained 2-butanone (MEK) at a concentration exceeding its UUSCO and PGWSCO.

The samples that exceeded one or more UUSCO for VOCs are identified on Figure 9. The samples that exceeded one or more PGWSCO for VOCs are identified on Figure 10.

SVOCs

As shown on Table 4, SVOCs were detected in each of the seven samples that were tested. SVOCs detected in one or more sample included: acenaphthene; acenaphthylene; anthracene; benzo(a)anthracene; benzo(a)pyrene; benzo(b)fluoranthene; benzo(g,h,i)perylene; benzo(k)fluoranthene; butyl benzyl phthalate; carbazole; chrysene; dibenzo(a,h)anthracene; dibenzofuran; di-n-butyl phthalate; fluoranthene; fluorene; indeno(1,2,3-cd)pyrene; naphthalene; phenanthrene; and pyrene. Concentrations of specific SVOCs detected ranged between 0.071and 35 mg/kg or ppm. Many of the detected concentrations were qualified as estimated by the analytical laboratory since they were detected below the method detection limit.

Samples TP-02(2-4), TB-03A(7.8-8.8), and MW-01(2-4) contained concentrations of SVOCs that exceeded one or more SCOs for one or more constituents. Each of these samples was comprised of fill material. The concentrations of the SVOCs detected in the other four samples were below their respective UUSCOs, RSCOs, RRSCOs, CSCOs, and PGWSCOs. A comparison of the detected SVOC concentrations to SCOs is summarized below:

- Sample TP-02(2-4), contained benzo(b)fluoranthene and indeno(1,2,3-cd)pyrene at concentrations exceeding their UUSCOs, RSCOs and RRSCOs. The concentrations of the other SVOCs detected in this sample were below their respective UUSCOs, RSCOs, RRSCOs, CSCOs, and PGWSCOs.
- Sample TB-03A(7.8-8.8) contained benzo(a)anthracene, benzo(a)pyrene; benzo(b)fluoranthene; chrysene; and indeno(1,2,3-cd)pyrene at concentrations that exceeded one or more of their respective UUSCOs, RSCOs, RRSCOs, CSCOs and/or PGWSCOs. The concentrations of the other SVOCs detected in this sample were below their respective UUSCOs, RSCOs, RRSCOs, CSCOs and PGWSCOs.
- Sample MW-01(2-4) contained benzo(a)anthracene, benzo(a)pyrene; benzo(b)fluoranthene; benzo(k)fluoranthene; chrysene; dibenzo(a,h)anthracene; and indeno(1,2,3-cd)pyrene at concentrations that exceeded one or more of their respective UUSCOs, RSCOs, RRSCOs, CSCOs and/or PGWSCOs. The concentrations of the other SVOCs detected in this sample were below their respective UUSCOs, RSCOs, RRSCOs, CSCOs and PGWSCOs.

The samples that exceeded one or more UUSCO for SVOCs are identified on Figure 9. The samples that exceeded one or more RSCO, RRSCO, CSCO and/or PGWSCO for SVOCs are identified on Figure 10.

Metals

As shown on Table 5, TAL metals were detected in each of the seven samples that were tested. A comparison of the detected concentrations of metals in these samples to SCOs is also provided on Table 5, and is summarized below:

- Sample TP-02(2-4) contained copper, lead and zinc at concentrations that exceeded their UUSCOs. The concentrations of the other metals detected in this sample were below their respective UUSCOs, RSCOs, RRSCOs, CSCOs and PGWSCOs.
- Sample TP-04(4-5) contained lead at a concentration that exceeded its UUSCO. The concentrations of the other metals detected in this sample were below their respective UUSCOs, RSCOs, RRSCOs, CSCOs and PGWSCOs.
- Sample TP-07(8-8.5) contained lead at a concentration that exceeded its UUSCO, and contained mercury at a concentration that exceeded its UUSCO, RSCO, RRSCO and PGWSCO. The concentrations of the other metals detected in this sample were below their respective UUSCOs, RSCOs, RRSCOs, CSCOs and PGWSCOs.
- Sample TB-03A(7.8-8.8) contained mercury at a concentration that exceeded its UUSCO. The concentrations of the other metals detected in this sample were below their respective UUSCOs, RSCOs, RRSCOs, CSCOs and PGWSCOs.
- Sample MW-01(2-4) contained lead at a concentration that exceeded its UUSCO. The concentrations of the other metals detected in this sample were below their respective UUSCOs, RSCOs, RRSCOs, CSCOs and PGWSCOs.
- Sample MW-05(406) contained silver at a concentration that exceeded its UUSCO. The concentrations of the other metals detected in this sample were below their respective UUSCOs, RSCOs, RRSCOs, CSCOs and PGWSCOs.

The samples that exceeded one or more UUSCO for metals are identified on Figure 9. The samples that exceeded one or more RSCO, RRSCO, CSCO and/or PGWSCO for metals are identified on Figure 10.

PCBs

As shown on Table 6, PCBs were detected in one of three samples that were tested. The PCB detected in the sample was aroclor-1260, and its detected concentration of 1.6 ppm exceeded its UUSCO, RSCO, RRSCO, and CSCO (Refer to Figure 9 and Figure 10).

3.2 Groundwater Evaluation

Using an oil/water interface probe, LNAPL and/or DNAPL were not detected within the five on-site wells during the May 17, 2019 well development work or the June 6, 2019 groundwater monitoring event. However, a sheen and petroleum-type odors were noted on purge water from monitoring well MW-04 during the above-mentioned well development and groundwater monitoring events.

Using the surveyed well elevations and static water level measurements from June 6, 2019, the groundwater elevation for each monitoring well was calculated (refer to Table 7). A potentiometric groundwater contour map for the June 6, 2019 monitoring event was developed and is included as Figure 11. As shown, groundwater flow on June 6, 2019 was generally to the east/northeast. The hydraulic gradient for June 6, 2019 is calculated to be approximately 0.01 ft./ft.

3.2.1 Analytical Laboratory Test Results for Groundwater Samples

The groundwater samples collected from wells MW-01 through MW-05 on June 6, 2019 were analyzed by ALS for TCL and CP-51 VOCs using USEPA Method 8260. A copy of the ALS laboratory report for the groundwater samples is included in Appendix D.

The VOC test results for the June 6, 2019 groundwater samples are summarized on Table 8, which also includes a comparison of the detected concentrations of VOCs to available groundwater standards or guidance values referenced in the NYSDEC document titled "Division of Water Technical and Operational Guidance Series 1.1.1; Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" dated June 1998 as amended with April 2000 and June 2004 addendum tables (TOGS 1.1.1). The VOC test results are also summarized on Figure 12. The results and comparison to the TOGS 1.1.1 groundwater standards and guidance values are summarized below:

- VOCs were detected in each of the five groundwater samples that were tested. VOCs detected in one or more sample included: acetone; benzene; 1,4-dichlorobenzene; 1,1-dichloroethene; cis-1,2-dichloroethene; trans-1,2-dichloroethene; methylcyclohexane; toluene; trichloroethene; vinyl chloride; and m,p-xylene. Concentrations of specific VOCs detected ranged between 0.2 and 3,400 micrograms per liter (ug/l) or parts per billion (ppb). Some of the detected concentrations were qualified as estimated (designated by a "J" next to constituent concentration on summary tables) by the analytical laboratory since they were detected below the method detection limit. [Note: The VOC acetone can be a laboratory artifact; thus, the concentrations detected in the field samples could be attributable (or partly attributable) to a laboratory artifact.]

- As shown on Table 8, the VOCs cis-1,2-dichloroethene, trans-1,2-dichloroethene; trichloroethene and/or vinyl chloride were detected in each of the five groundwater samples at concentrations exceeding their respective NYSDEC TOGS 1.1.1 groundwater standards or guidance values. As shown on Figure 12, the highest concentration of total VOCs (i.e., 4,109 ug/l or ppb, of which 3,400 ug/l was trichloroethene) was detected at monitoring well MW-01, which is within the footprint of the former manufacturing building that was demolished by the City in 2016. The lowest concentration of total VOCs (i.e., 119.83 ug/l or ppb) was detected at monitoring well MW-02, which is located on the southwest portion of the Site that was upgradient of the former manufacturing building.

- VOCs were not detected in the June 6, 2019 QA/QC Trip Blank (Sample TB060619 at concentrations above reported analytical laboratory detection limits. The QA/QC trip blank laboratory results can be found in Appendix D.

3.3 Soil Vapor Evaluation

As shown on Table 9, 30 VOCs were detected in soil vapor sample SV-01 and five VOCs were detected in outdoor air background sample OA-01.

- VOCs detected in soil vapor sample SV-01 included: 1,1,1-trichloroethane; acetone; acrylonitrile; acrolein; benzene; 2-butanone (MEK); dichlorodifluoromethane (Freon 12); ethanol; ethyl acetate; ethylbenzene; 4-ethyltoluene; heptane; hexane; 2-hexanone (MBK); 4-methyl-2-pentanone (MIBK); naphthalene; propene; propylbenzene; toluene; trichlorofluoromethane (Freon 11); 1,2,4-trimetheylbenzene; 1,3,5-trimethylbenzene; m,p-xylene; o-xylene; vinyl acetate; b-butyl acetate; n-octane; n-nonane; alpha-pinene; and d-limonene. Detected concentrations of these VOCs ranged between 0.96 (naphthalene) and 250.0 (acetone) micrograms per cubic meter (ug/m^3).

- VOCs detected in outdoor air background sample OA-01 included: acetone; dichlorodifluoromethane (Freon 12); ethyl acetate; toluene; and trichlorofluoromethane (Freon 11). Detected concentrations of these VOCs ranged between 1.0 (Freon 12) and 11.0 (acetone) ug/m^3.

The NYSDOH document titled Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, dated October 2006, as amended by NYSDOH Soil Vapor Intrusion Updates, does not include specific guidance criteria for soil vapor samples. However, the document does include matrices and tables summarizing "typical" indoor air values measured in commercial and residential structures, and no impacts were measured in this hydraulically upgradient soil vapor sample that warrant further action when compared to the matrices.

With the exception of ethyl acetate, the concentrations of VOCs detected in outdoor air sample OA-1 did not exceed their respective 90th percentile values for outdoor air referenced in Table C2 of the October 2016 NYSDOH document titled "Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York".

Soil vapor sample SV-01 contained elevated concentrations of VOCs in relation to the concentrations of the VOCs that were detected in the soil vapor sample SV-01 (e.g., acetone detected in SV-01 at 250 ug/m^3 and detected in OA-01 at 11 ug/m^3). The higher number of VOCs and the higher detected concentrations of VOCs in the soil vapor sample in relation to the outdoor air sample suggest the VOCs are present in the soil vapor, and are not attributable to outdoor air conditions.

4.0 CONCLUSIONS AND RECOMMENDATIONS

This section of the report summarizes the findings of the Phase II ESA that was performed at the Site, and also provides conclusions and recommendations as they pertain to environmental conditions.

4.1 Summary of Findings

The geophysical survey of the western side of the Site identified five magnetic anomalies (designated as A though E on Figure 7). The subsequent excavation of test pits TP-06, TP-07 and TP-08 at these anomaly areas did not encounter USTs. However, fill material containing metallic debris was encountered in each of these test pits, which would explain the magnetic anomalies that were detected.

Based on observation of conditions at test locations, much of the Site is covered by an approximate 0.5 foot or less layer of topsoil. Heterogeneous fill material is present beneath the topsoil. This fill generally consists of reworked soil (i.e., various mixtures of silt, sand, gravel, cobbles, boulders and clay) with trace to some amounts of brick, concrete, wood, metal, and rock Trace to little amounts of ash, cinders, asphalt, coal, glass, rubber, plastic, and slag were also occasionally observed in the fill material. Some of the fill was black in color, and this fill commonly contained higher amounts of cinders. The average fill thickness for the Site was calculated to be approximately 6.8 ft.

Indigenous soils beneath the fill material generally consists of various mixtures of sands and silts that occasionally contained trace to some gravel, cobbles, boulders, fractured rock (e.g., shale or dolomite) and/or clay with lesser amounts of gravel. In some locations, the overburden soil was underlain by gray fractured shale, which was underlain by harder gray dolomite of the Eramosa (Lockport) Formation. Based on the bedrock elevations measured at the five monitoring well locations, the top of bedrock at the Site appears to slope toward the southeast. Based on groundwater elevation data from the five on-site overburden/bedrock interface monitoring wells, groundwater flow on June 6, 2019 was generally to the east/northeast.

Soil and fill sample test results were compared to various NYSDEC Part 375 SCOs on Table 3 though Table 6, Figure 9 and Figure 10, and the comparisons are summarized below.

- Seventeen of the eighteen soil and fill samples that were tested contained concentrations of one or more VOC, SVOC, Metal and/or PCB that exceeded UUSCOs.
- Fifteen of the eighteen soil and fill material samples that were tested contained concentrations of one or more VOCs, SVOCs, and/or Metals that exceeded one or more PGWSCOs.
- Four of the eighteen soil and fill material samples that were tested contained concentrations of one or more VOCs, SVOCs, and/or Metals that exceeded one or more RSCOs and RRSCOs.
- Three of the eighteen soil and fill material samples that were tested contained concentrations of one or more VOCs, SVOCs, and/or Metals that exceeded one or more CSCOs.

Note: The VOCs acetone and methyl acetate can be laboratory artifacts; thus, the concentrations detected in the field samples could be attributable (or partly attributable) to laboratory artifacts.

As shown on Figure 12 and Table 8, VOCs were detected in the June 6, 2019 groundwater samples from each of the five monitoring wells. The highest concentration of VOCs was detected in the groundwater sample from MW-01, which is located within the footprint of the former building on the Site. The lowest concentration of VOCs was detected in the groundwater sample from MW-02, which is located on the southeast (i.e., hydraulically upgradient) portion of the Site. The concentrations of the VOCs cis-1,2-dichloroethene, trans-1,2-dichloroethene, trichloroethene and/or vinyl chloride detected in the five groundwater samples exceeded NYSDEC TOGS 1.1.1 groundwater standards and guidance values.

A sheen and petroleum-type odors were noted on purge water from monitoring well MW-04 located on the southeast portion of the Site, but were not noted at the other four monitoring wells. The groundwater sample from MW-04 contained petroleum-related VOCs toluene and methylcyclohexane, but at concentrations below TOGS 1.1.1 groundwater standards or guidance values. The 1933 Sanborn Map shows a gas tank (GT) on the adjoining property to the east in proximity to monitoring well MW-04; thus, the petroleum-type impacts may be attributable to an off-site source.

4.2 Conclusions

The types of VOCs, SVOCs, metals and PCBs detected in soil, fill and groundwater samples at the Site could be attributable to past operations at the Site and/or the fill material that is present on the Site. The extent of chemical contaminants exceeding NYSDEC criteria has not been fully defined.

Based on the work completed, the magnitude of total VOC concentrations in groundwater across most of the Site is generally similar, which suggests a site-wide VOC contaminant condition (i.e., VOCs in groundwater are not localized).

VOCs were detected in an off-site soil vapor sample that was collected on the hydraulically upgradient adjoining 59 Sullivan Street parcel to the west. The specific VOCs detected in the soil vapor sample do not fully correlate with the specific VOCs detected in soil, fill or groundwater samples on the Site.

It is unknown whether VOCs in soil, fill or groundwater at the Site are migrating off-site via groundwater or soil vapor intrusion. However, based on the VOC concentrations measured and the apparent groundwater flow patterns, off-site migration of chlorinated VOCs in groundwater appears possible. Further, the highest trichloroethene concentration was measured in a groundwater samples collected from the northwest portion of the Site, and downgradient wells containing higher concentrations of apparent breakdown products suggest a possible on-site chlorinated VOC source area with contaminant migration away from the source.

Based on detected concentrations of VOC, SVOC, metals and PCBs above various NYSDEC SCOs, some of the soil and fill material at the Site could be considered a regulated waste if disturbed or displaced, will require special handling, and has re-use restrictions. Such disturbed/displaced soil/fill would require disposal at an appropriate approved regulated disposal facility (e.g., landfill), with the exception that some types of the non-hazardous disturbed/displaced soil/fill could possibly be re-used on-site or off-site if a NYSDEC Part 360 Beneficial Use Determination (BUD) can be obtained.

Based on the Phase II ESA work completed, the following continue to be identified as RECs for the Site:

1. Historical Uses / Regulatory Listing of the Site; and
2. Historical Uses of Adjoining Properties

4.3 Recommendations

1. It is recommended that the findings of this report be provided to the NYSDEC.

2. It is recommended that additional on-site and off-site investigation be completed to evaluate the nature and extent of environmental impacts. Types of investigation include:
   a) Further on-site evaluation of VOCs, SVOCs, Metals and PCBs in soil, fill material, groundwater and/or soil vapor; and
   b) Evaluation of potential VOC migration in off-site groundwater and soil vapor.

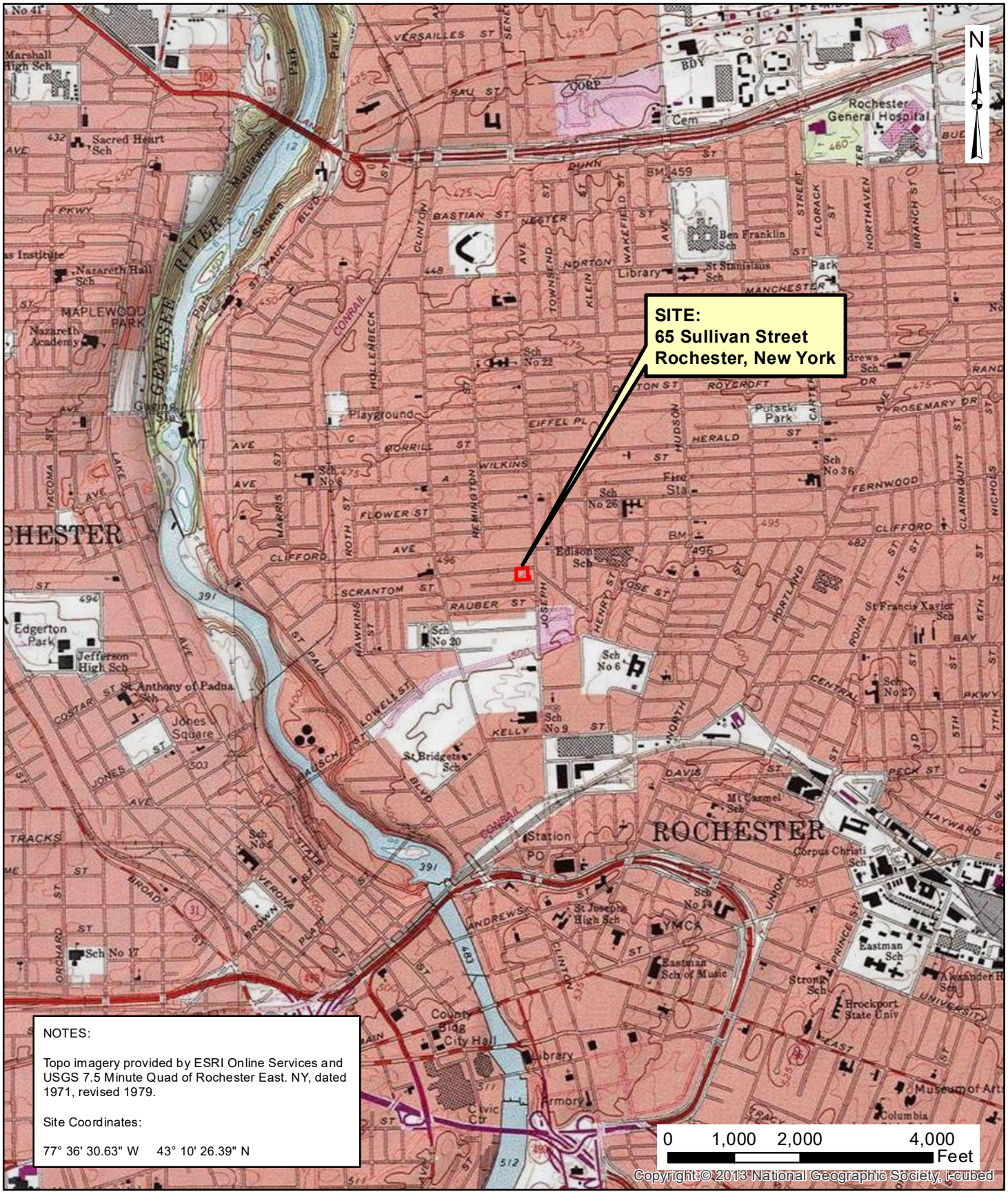
3. Remedial actions should be completed to the extent deemed warranted. Based on current data and information, these could include, but are not limited to, the following:
   - Physical remediation of impacted soil and groundwater via removal and disposal, containment, in-situ or ex-situ treatment, etc.
   - Installation of a cover system as an engineering control, if warranted.
   - Mitigation of soil vapor intrusion into any new or existing structures on the Site or adjoining/nearby properties if a potential soil vapor intrusion is suspected or if soil vapor intrusion has been confirmed. An example soil vapor mitigation system is a sub-slab depressurization system (SSDS) that can be installed on an existing or new building as an engineering control.
   - Preparation and implementation of a site-specific Remedial Action Work Plan (RAWP) and/or Environmental Management Plan (EMP) to address Site contaminants in soil, fill material, groundwater, soil vapor, etc. at the Site. The RAWP and/or EMP will provide guidance on health and safety monitoring, characterization, handling, and disposal/re-use of material that requires remediation, disturbance or displacement, including during potential redevelopment of the Site. In addition, it is recommended that a site-specific Health and Safety Plan (HASP) be developed and included with the RAWP and EMP to protect construction workers, the nearby community, and future on-site occupants from exposures to residual environmental constituents in soil, fill material, groundwater, soil vapor, etc. should these media be disturbed (i.e. during remediation activities, redevelopment activities, construction activities, utility

trenching, site grading, etc.). It is also recommended that an environmental project monitor (EPM) be on-site on a full-time basis to assist with implementation of the RAWP and//or EMP during activities that have the potential to disturb subsurface impacted media. Examples include earthwork (trenching, grading, etc.) during remediation or redevelopment of the Site. The EPM can visually observe and field screen Site materials as they are disturbed/excavated, provide guidance on segregation, management and characterization of potentially impacted materials, provide guidance if unanticipated subsurface environmental conditions are encountered, and help with implementation of other EMP requirements.

5.0 ACRONYMS AND ABBREVIATIONS

ALS	ALS Environmental
ASP	Analytical Services protocol
BGS	Below Ground Surface
BUD	Beneficial Use Determination
City	City of Rochester
CP-51	Commissioner Policy 51
CSCO	Commercial Soil Cleanup Objective
DAY	Day Environmental, Inc.
DNAPL	Dense Non-Aqueous Phase Liquid
ELAP	Environmental Laboratory Approval Program
EMP	Environmental Management Plan
EPM	Environmental Project Monitor
Ft.	Feet
GPS	Geographic Positioning System
HASP	Health and Safety Plan
IDW	Investigation-Derived Waste
LDDA	Limited Due Diligence Assessment
LNAPL	Light Non-Aqueous Phase Liquid
Marques	Marques and Associates, P.C.
MEK	2 Butanone
Mg/kg	Milligram per Kilogram
MIBK	4-Methyl-2-pentanone
MS/MSD	Matrix Spike/Matrix Spike Duplicate
Nature's Way	Nature Way Environmental Consultants and Contractors Inc.
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYSDOT	New York State Department of Transportation
PCB	Poly-Chlorinated Biphenyl
PGWSCO	Protection of Groundwater Soil Cleanup Objective
Phase I ESA	Phase I Environmental Site Assessment
Phase II ESA	Phase II Environmental Site Assessment
PID	Photoionization Detector
PPB	Parts Per Billion
PPM	Parts Per Million
PVC	Polyvinyl Chloride
QA/QC	Quality Assurance/Quality Control
RAWP	Remedial Action Work Plan
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Concern
RQD	Rock Quality Designation
RSCO	Residential Soil Cleanup Objective
RRSCO	Restricted Residential Soil Cleanup Objective
SPT	Standard Penetration Test
SSDS	Sub-Slab Depressurization System
STARS	Spill Technology and Remediation Series
SUN	Sun Environmental Corp.
SVOC	Semi-Volatile Organic Compound
TAL	Target Analyte List
TCL	Target Compound List
TCLP	Toxicity Characteristic Leaching Procedure
TIO	Temporary Incident of Ownership
TOGS	Technical and Operational Guidance Series 1.1.1
Ug/l	Microgram per Liter
Ug/m^3	Microgram per cubic Meter of air
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
UUSCO	Unrestricted Use Soil Cleanup Objective
VOC	Volatile Organic Compound
WOOD	WOOD Environment & Infrastructure Solutions, Inc.

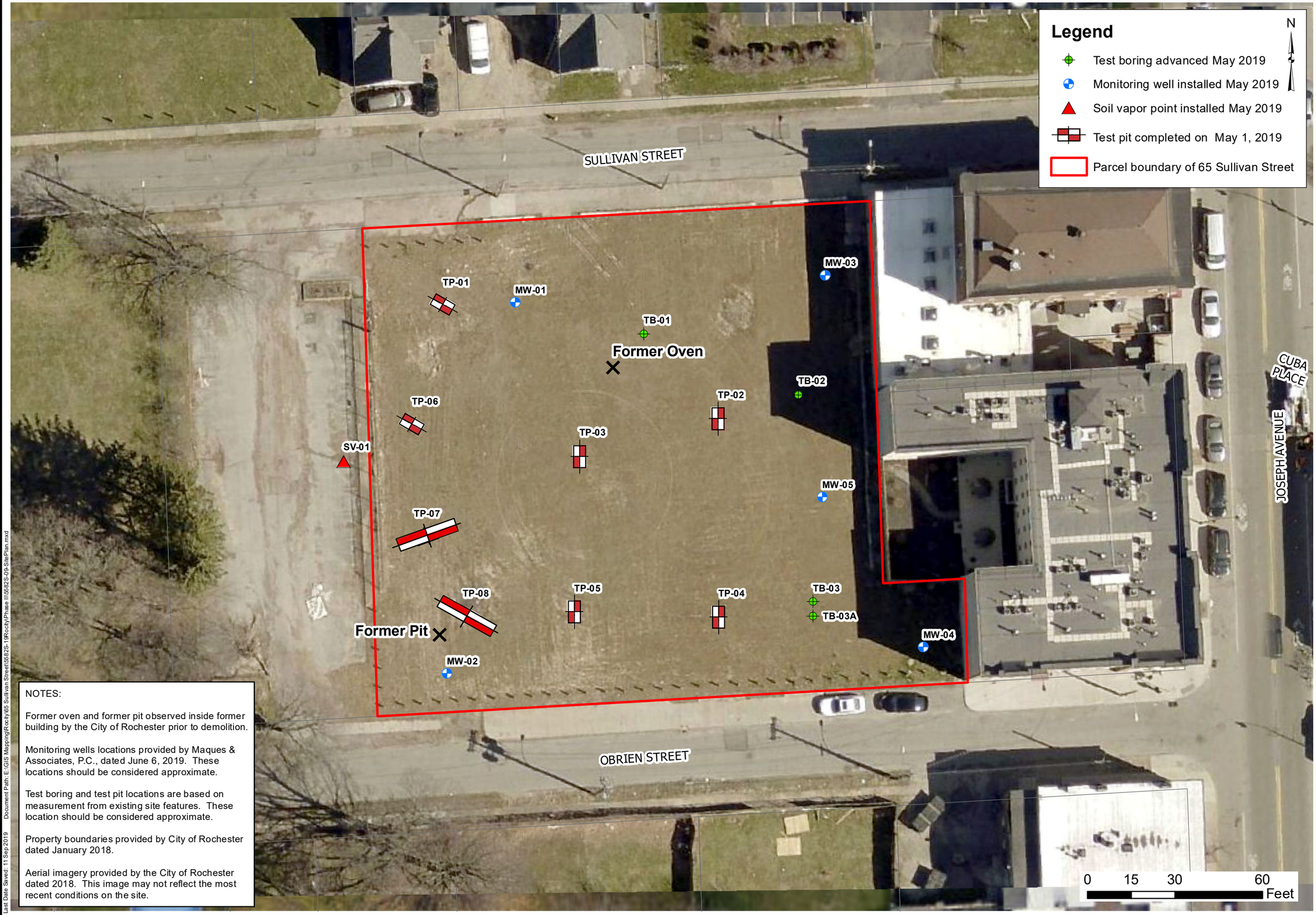
FIGURES



Document Path: E:\GIS Mapping\Rocity\65 Sullivan Street\5582S-19Rocity\Phase II\5582S-05 - Locus.mxd

Last Date Saved: 11 Mar 2019

Date: 03-11-2019 Drawn By: CPS Scale: AS NOTED	**DAY ENVIRONMENTAL, INC.** Environmental Consultants Rochester, New York 14606 New York, New York 10170	Project Title: 65 SULLIVAN STREET ROCHESTER, NEW YORK PHASE II ENVIRONMENTAL SITE ASSSESSMENT Drawing Title: Project Locus Map	Project No. 5582S-19 FIGURE 1



NOTES:

Former oven and former pit observed inside former building by the City of Rochester prior to demolition.

Monitoring wells locations provided by Maques & Associates, P.C., dated June 6, 2019. These locations should be considered approximate.

Test boring and test pit locations are based on measurement from existing site features. These location should be considered approximate.

Property boundaries provided by City of Rochester dated January 2018.

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

Last Date Saved: 11 Sep 2019 Document Path: E:\GIS Mapping\Rocky\65 Sullivan Street\5582S-19Rocky\Phase II\5582S-09-SitePlan.mxd

PROJECT MANAGER	JAD	DATE	09-2019
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SCALE	AS NOTED	DATE ISSUED	09-09-2019

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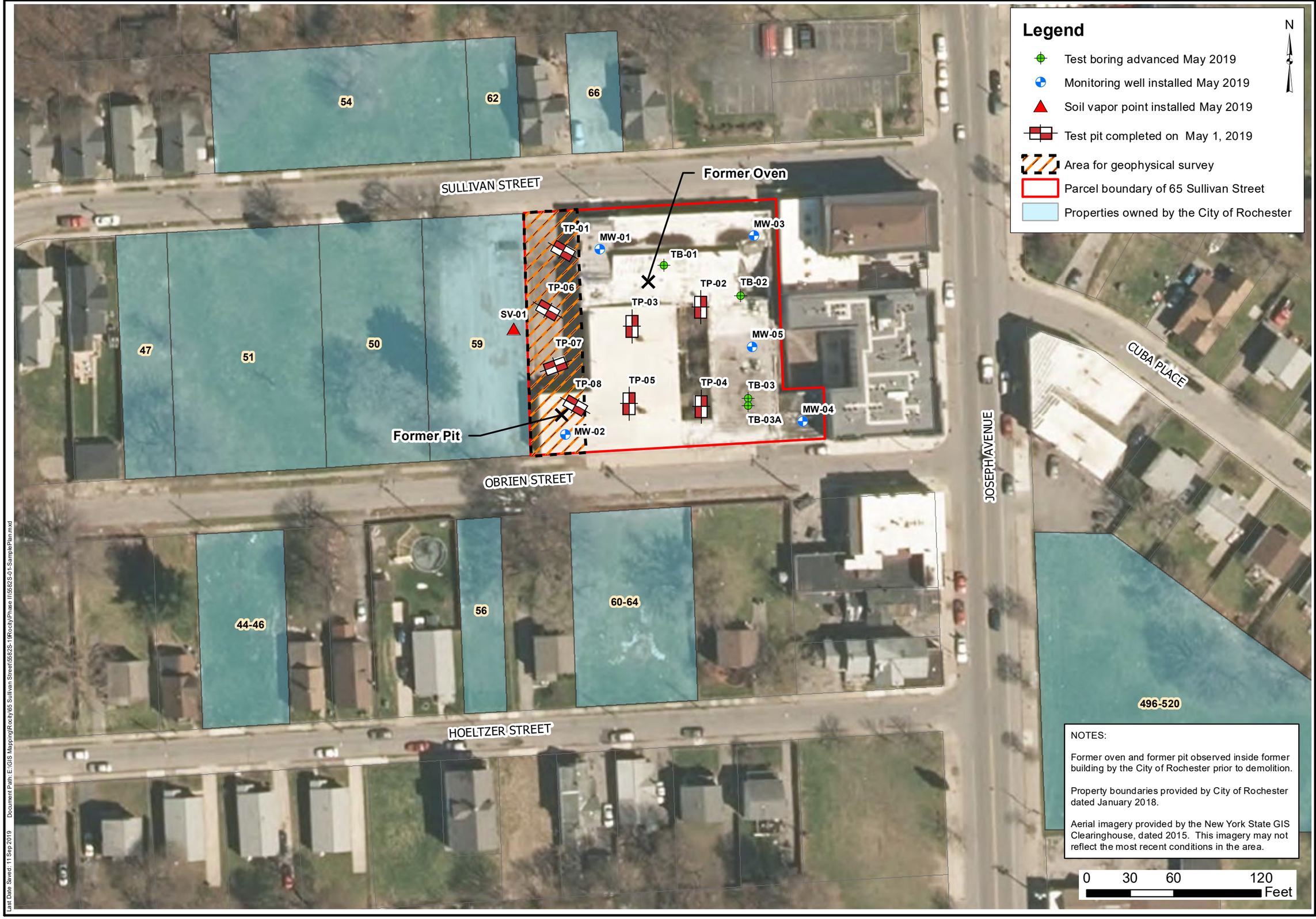
Rochester, New York 14606
New York, New York 10170

Project Title
65 SULLIVAN STREET
ROCHESTER, NEW YORK
PHASE II ENVIRONMENTAL SITE ASSESSMENT

Drawing Title
Test Location Plan with 2018 Aerial Overlay

Project No.
5582S-19

FIGURE 2



Legend

- Test boring advanced May 2019
- Monitoring well installed May 2019
- Soil vapor point installed May 2019
- Test pit completed on May 1, 2019
- Area for geophysical survey
- Parcel boundary of 65 Sullivan Street
- Properties owned by the City of Rochester

NOTES:

Former oven and former pit observed inside former building by the City of Rochester prior to demolition.

Property boundaries provided by City of Rochester dated January 2018.

Aerial imagery provided by the New York State GIS Clearinghouse, dated 2015. This imagery may not reflect the most recent conditions in the area.

PROJECT MANAGER	DRAWN BY	SCALE
JAD	CPS	AS NOTED

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09-2019	09-2019	09-09-2019

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Rochester, New York 14606
New York, New York 10170

Project Title
65 SULLIVAN STREET
ROCHESTER, NEW YORK

PHASE II ENVIRONMENTAL SITE ASSESSMENT

Drawing Title
Test Location Plan with 2015 Aerial Overlay

Project No.
5582S-19

FIGURE 3

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Legend

- Test boring advanced May 2019
- Monitoring well installed May 2019
- Soil vapor point installed May 2019
- Test pit completed on May 1, 2019
- Area for geophysical survey
- Parcel boundary of 65 Sullivan Street
- Properties owned by the City of Rochester

N

TP-01, MW-01, TB-01, MW-03, TP-06, TP-02, TB-02, TP-03, SV-01, MW-05, TP-07, TP-08, TP-05, TP-04, TB-03, TB-03A, MW-04, MW-02

SULLIVAN STREET

OBRIEN STREET

HOELTZER STREET

CUBA PLACE

JOSEPH AVENUE

NOTES:

Property boundaries provided by City of Rochester dated January 2018.

Aerial imagery provided by the New York State GIS Clearinghouse, dated 2015. This imagery may not reflect the most recent conditions in the area.

0 30 60 120 Feet

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New York, New York 10170

Project Title: 65 SULLIVAN STREET
ROCHESTER, NEW YORK

PHASE II ENVIRONMENTAL SITE ASSESSMENT

Drawing Title: Test Location Plan with 1933 Sanborn Overlay

Project No. 5582S-19

FIGURE 4

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Legend

- Test boring advanced May 2019
- Monitoring well installed May 2019
- Soil vapor point installed May 2019
- Test pit completed on May 1, 2019
- Area for geophysical survey
- Parcel boundary of 65 Sullivan Street
- Properties owned by the City of Rochester

N

TP-01 TP-02 TP-03 TP-04 TP-05 TP-06 TP-07 TP-08
MW-01 MW-02 MW-03 MW-04 MW-05
TB-01 TB-02 TB-03 TB-03A
SV-01

SULLIVAN STREET
OBRIEN STREET
HOELTZER STREET
JOSEPH AVENUE
CUBA PLACE

NOTES:

Property boundaries provided by City of Rochester dated January 2018.

Aerial imagery provided by the New York State GIS Clearinghouse, dated 2015. This imagery may not reflect the most recent conditions in the area.

0 30 60 120 Feet

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DATE	09-2019
DATE DRAWN	09-2019
DATE ISSUED	09-09-2019

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New York, New York 10170

Project Title: 65 SULLIVAN STREET
ROCHESTER, NEW YORK
PHASE II ENVIRONMENTAL SITE ASSESSMENT

Drawing Title: Test Location Plan with 1959 Sanborn Overlay

Project No.: 5582S-19

FIGURE 5

Last Date Saved: 09 Sep 2019 Document Path: E:\GIS Mapping\Rocky\65 Sullivan Street\5582S-19Rocky\Phase II\5582S-03-Sanborns 1959.mxd

Legend

- Test boring advanced May 2019
- Monitoring well installed May 2019
- Soil vapor point installed May 2019
- Test pit completed on May 1, 2019
- Area for geophysical survey
- Parcel boundary of 65 Sullivan Street
- Properties owned by the City of Rochester

N

TP-01, TP-02, TP-03, TP-04, TP-05, TP-06, TP-07, TP-08
MW-01, MW-02, MW-03, MW-04, MW-05
TB-01, TB-02, TB-03, TB-03A
SV-01

SULLIVAN STREET
O'BRIEN STREET
HOELTZER STREET
CUBA PLACE
JOSEPH AV.

NOTES:

Property boundaries provided by City of Rochester dated January 2018.

Aerial imagery provided by the New York State GIS Clearinghouse, dated 2015. This imagery may not reflect the most recent conditions in the area.

0 30 60 120 Feet

DATE	09-2019
PROJECT MANAGER	JAD
DATE DRAWN	09-2019
DRAWN BY	CPS
DATE ISSUED	09-09-2019
SCALE	AS NOTED

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

Project Title
65 SULLIVAN STREET
ROCHESTER, NEW YORK

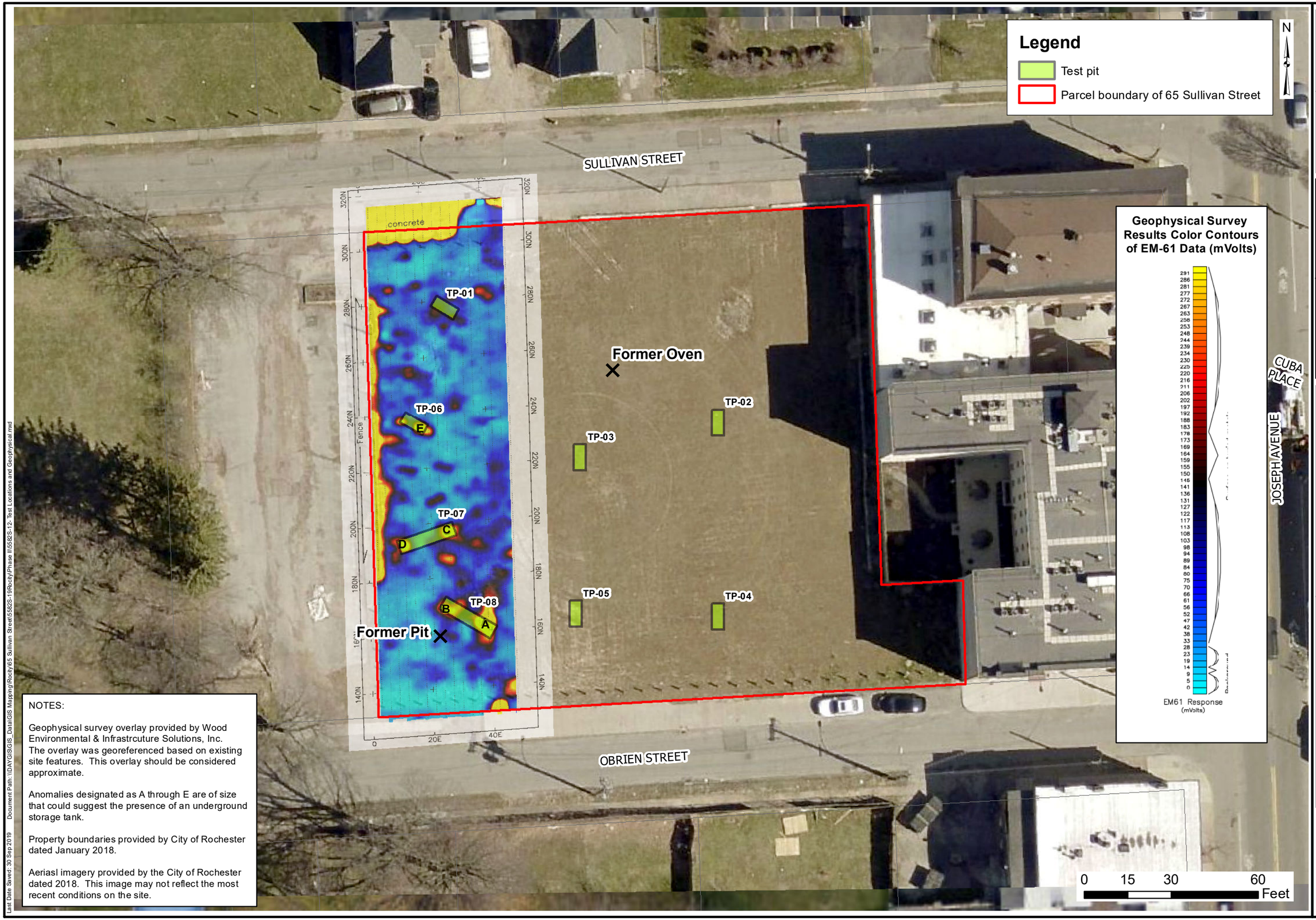
PHASE II ENVIRONMENTAL SITE ASSESSMENT

Drawing Title
Test Location Plan with 1971 Sanborn Overlay

Project No.
5582S-19

FIGURE 6

Last Date Saved: 09 Sep 2019 Document Path: E:\GIS Mapping\Rocky\65 Sullivan Street\5582S-19\Rocky\Phase II\5582S-04-Sanborns 1971.mxd



NOTES:

Geophysical survey overlay provided by Wood Environmental & Infrastrcuture Solutions, Inc. The overlay was georeferenced based on existing site features. This overlay should be considered approximate.

Anomalies designated as A through E are of size that could suggest the presence of an underground storage tank.

Property boundaries provided by City of Rochester dated January 2018.

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

PROJECT MANAGER	JAD
DATE	08-2019
DRAWN BY	CPS
DATE DRAWN	08-2019
SCALE	AS NOTED
DATE ISSUED	09-09-2019

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

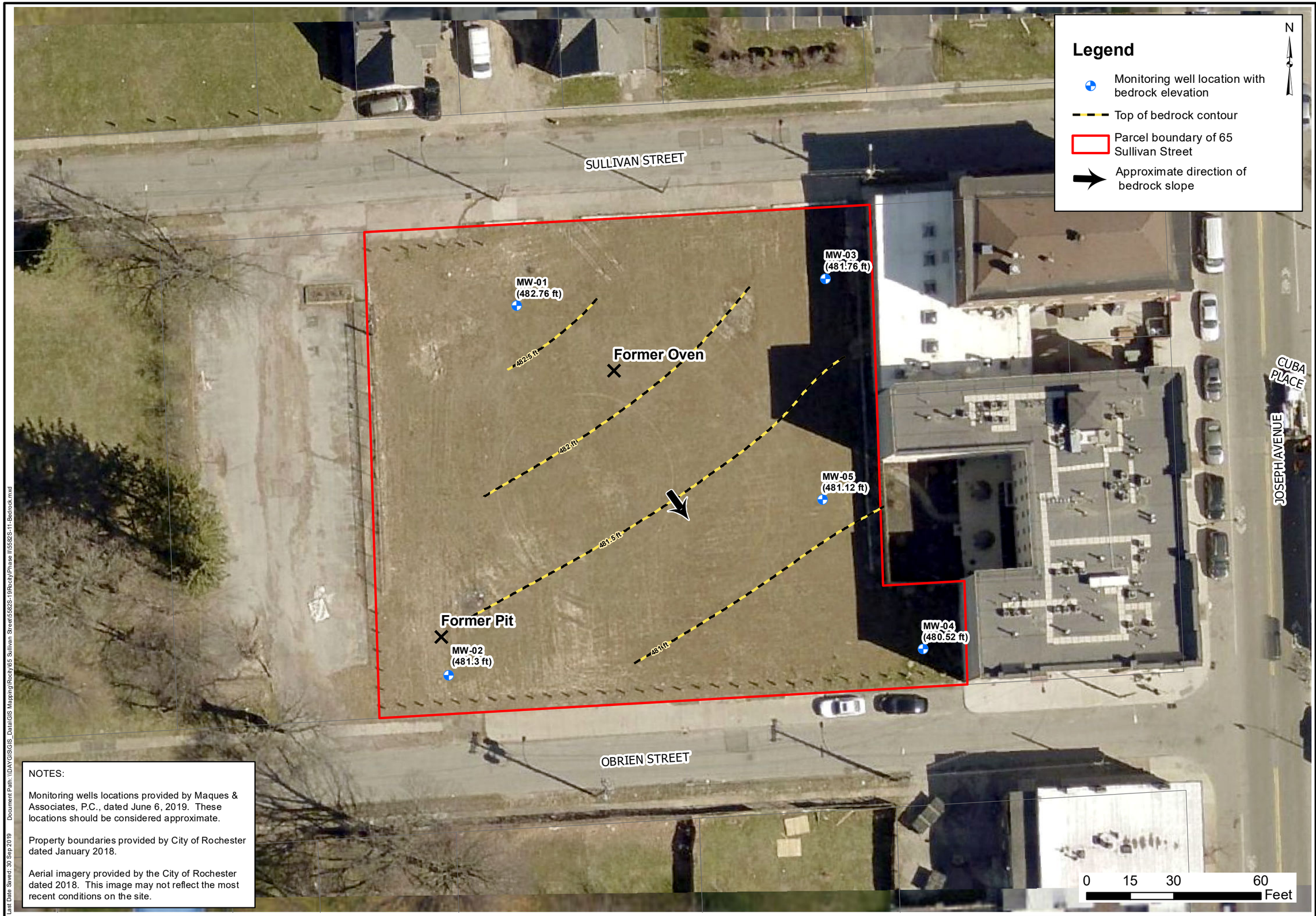
Project Title
65 SULLIVAN STREET
ROCHESTER, NEW YORK
PHASE II ENVIRONMENTAL SITE ASSESSMENT

Drawing Title
Site Plan with Geophysical Survey Overlay and Test Pit Locations

Project No.
5582S-19

FIGURE 7

Last Date Saved: 30 Sep 2019 Document Path: \\DAYGIS\GIS_Data\GIS Mapping\Rocky\65 Sullivan Street\5582S-19\Rocky\Phase II\5582S-12- Test Locations and Geophysical.mxd



NOTES:

Monitoring wells locations provided by Maques & Associates, P.C., dated June 6, 2019. These locations should be considered approximate.

Property boundaries provided by City of Rochester dated January 2018.

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

Last Date Saved: 30 Sep 2019 Document Path: \\DAYGIS\GIS_Data\GIS Mapping\Rocky\65 Sullivan Street\5582S-19\Rocky\Phase II\5582S-11-Bedrock.mxd

PROJECT MANAGER	JAD
DATE	08-2019
DRAWN BY	CPS
DATE DRAWN	08-2019
SCALE	AS NOTED
DATE ISSUED	09-09-2019

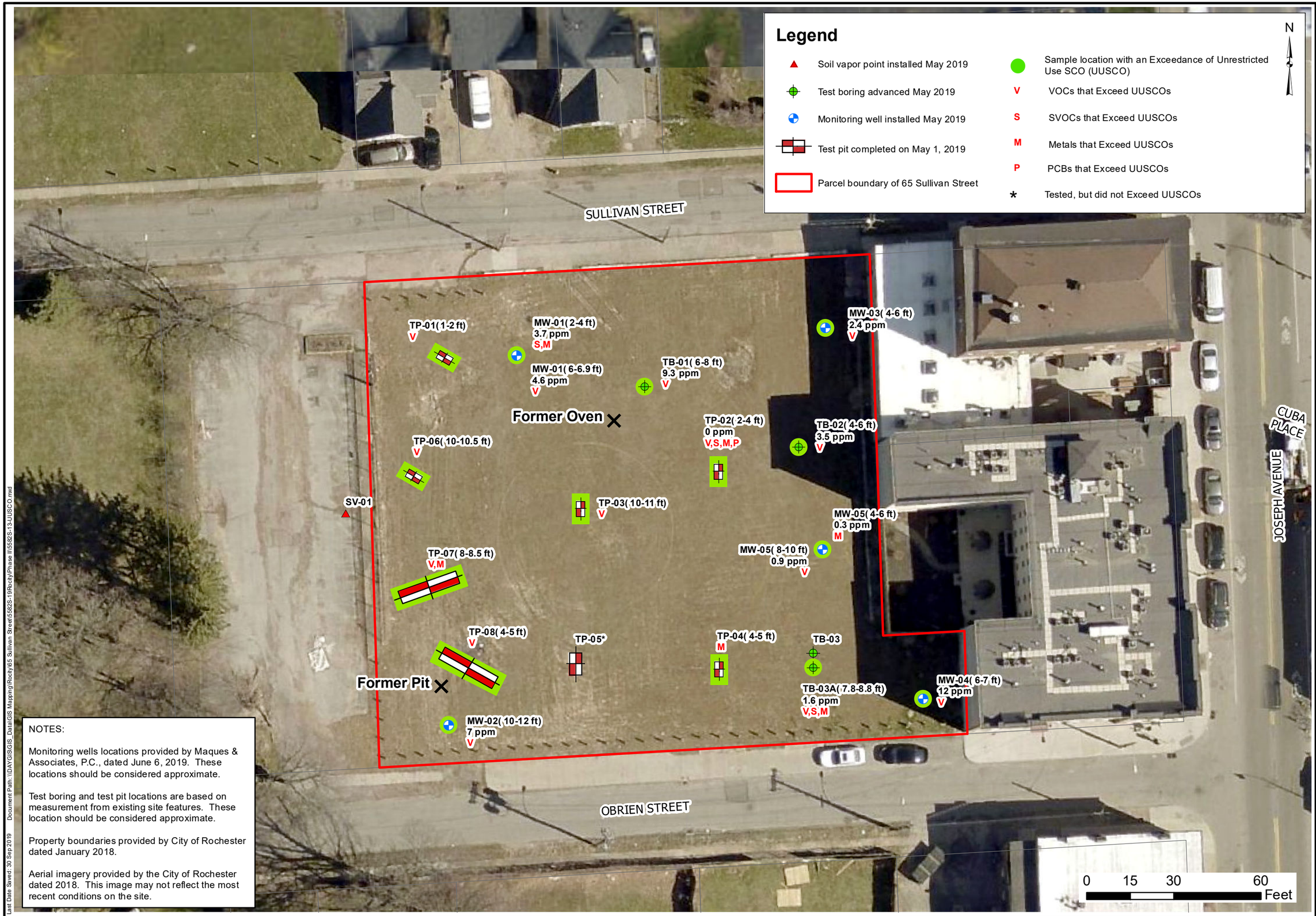
DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170

Project Title
65 SULLIVAN STREET
ROCHESTER, NEW YORK
PHASE II ENVIRONMENTAL SITE ASSESSMENT

Drawing Title
Bedrock Contour Map

Project No.
5582S-19

FIGURE 8



Legend

- Soil vapor point installed May 2019
- Test boring advanced May 2019
- Monitoring well installed May 2019
- Test pit completed on May 1, 2019
- Parcel boundary of 65 Sullivan Street
- Sample location with an Exceedance of Unrestricted Use SCO (UUSCO)
- V — VOCs that Exceed UUSCOs
- S — SVOCs that Exceed UUSCOs
- M — Metals that Exceed UUSCOs
- P — PCBs that Exceed UUSCOs
- * — Tested, but did not Exceed UUSCOs

N

NOTES:

Monitoring wells locations provided by Maques & Associates, P.C., dated June 6, 2019. These locations should be considered approximate.

Test boring and test pit locations are based on measurement from existing site features. These location should be considered approximate.

Property boundaries provided by City of Rochester dated January 2018.

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

PROJECT MANAGER	DRAWN BY	SCALE	DATE
JAD	CPS	AS NOTED	06-2019

DATE DRAWN	DATE ISSUED
06-2019	09-09-2019

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

Project Title
65 SULLIVAN STREET
ROCHESTER, NEW YORK
PHASE II ENVIRONMENTAL SITE ASSESSMENT

Drawing Title
Test Location Plan withSoil/Fill Samples that Exceed UUSCOs

Project No.
5582S-19

FIGURE 9

Last Date Saved: 30 Sep 2019 Document Path: \\DAYGIS\GIS_Data\GIS Mapping\Rocky\65 Sullivan Street\5582S-19Rocky\Phase II\5582S-13-UUSCO.mxd

Legend

- Soil vapor point installed May 2019
- Test boring advanced May 2019
- Monitoring well installed May 2019
- Test pit completed on May 1, 2019
- Parcel boundary of 65 Sullivan Street
- Sample location with an Exceedance of Protection of Groundwater SCO (PGWSCO)
- Sample location with an Exceedance of Residential SCO (RSCO)
- Sample location with an Exceedance of Restricted Residential SCO (RRSCO)
- Sample location with an Exceedance of Commercial SCO (CSCO)

V VOCs that Exceed RSCOs, RRSCOs, CSCOs, or PGWSCOs

S SVOCs that Exceed RSCOs, RRSCOs, CSCOs, or PGWSCOs

M Metals that Exceed RSCOs, RRSCOs, CSCOs, or PGWSCOs

P PCBs that Exceed RSCOs, RRSCOs, CSCOs, or PGWSCOs

* Tested, but did not Exceed UUSCOs

N

MW-01(2-4 ft)
3.7 ppm
S

TP-01(1-2 ft)
V

TB-01(6-8 ft)
9.3 ppm
V

MW-01(6-6.9 ft)
4.6 ppm
V

MW-03(4-6 ft)
2.4 ppm
V

Former Oven

TP-02(2-4 ft)
V,S,P

TB-02(4-6 ft)
3.5 ppm
V

TP-06(10-10.5 ft)
V

TP-03(10-11 ft)
V

SV-01

TP-07(8-8.5 ft)
V,M

MW-05(8-10 ft)
0.9 ppm
V

TP-08(4-5 ft)
V

TP-05*

TP-04*

TB-03

MW-04(6-7 ft)
12 ppm
V
MW-04

Former Pit

TB-03A(7.8-8.8 ft)
1.6 ppm
V,S

MW-02(10-12 ft)
7 ppm
V

OBRIEN STREET

JOSEPH AVENUE

CUBA PLACE

0 15 30 60 Feet

NOTES:

Monitoring wells locations provided by Maques & Associates, P.C., dated June 6, 2019. These locations should be considered approximate.

Test boring and test pit locations are based on measurement from existing site features. These location should be considered approximate.

Property boundaries provided by City of Rochester dated January 2018.

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

Last Date Saved: 30 Sep 2019 Document Path: \\DAYGIS\GIS_Data\GIS Mapping\Rocity\65 Sullivan Street\5582S-19Rocity\Phase II\5582S-14-SCOs.mxd

PROJECT MANAGER	JAD
DRAWN BY	CPS
SCALE	AS NOTED
DATE	08-2019
DATE DRAWN	08-2019
DATE ISSUED	09-09-2019

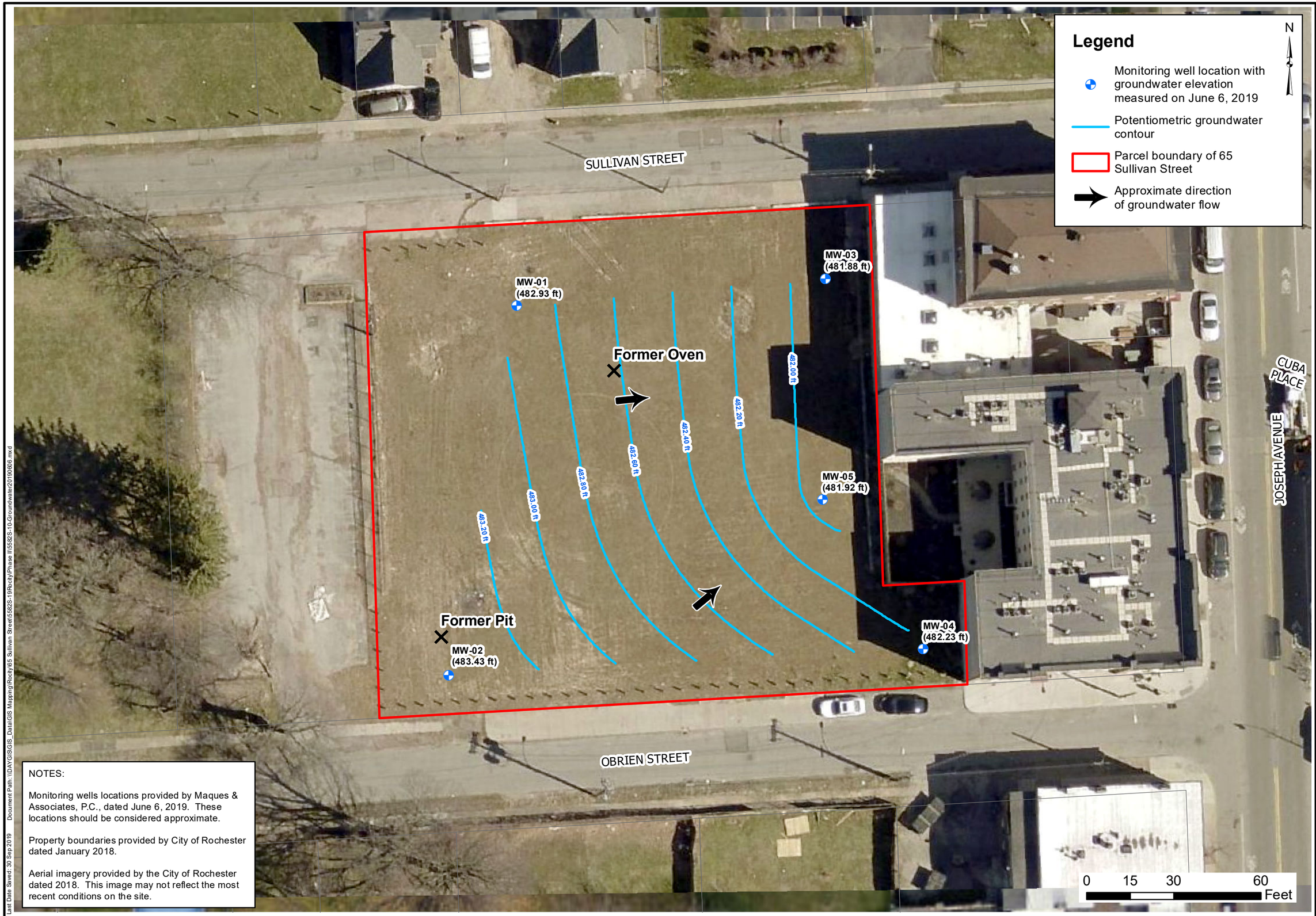
DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170

Project Title
65 SULLIVAN STREET
ROCHESTER, NEW YORK
PHASE II ENVIRONMENTAL SITE ASSESSMENT

Drawing Title
Test Location Plan with Soil/Fill Samples that Exceed RSCOs, RRSCOs, CSCOs and/or PGWSCOs

Project No.
5582S-19

FIGURE 10



NOTES:

Monitoring wells locations provided by Maques & Associates, P.C., dated June 6, 2019. These locations should be considered approximate.

Property boundaries provided by City of Rochester dated January 2018.

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

PROJECT MANAGER	JAD	DATE	06-2019
DRAWN BY	CPS	DATE DRAWN	06-2019
SCALE	AS NOTED	DATE ISSUED	09-09-2019

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

Project Title
65 SULLIVAN STREET
ROCHESTER, NEW YORK
PHASE II ENVIRONMENTAL SITE ASSESSMENT

Drawing Title
Potentiometric Groundwater Contour Map for June 6, 2019

Project No.
5582S-19

FIGURE 11

Last Date Saved: 30 Sep 2019 Document Path: \\DAYGIS\GIS_Data\GIS Mapping\Rocky\65 Sullivan Street\5582S-19\Rocky\Phase II\5582S-10-Groundwater20190606.mxd

Legend

- Monitoring well location with Volatile Organic Compounds (VOCs) detected in June 6, 2019 groundwater sample in ug/l
- Parcel boundary of 65 Sullivan Street

N

MW-01
cis-1,2-Dichloroethene: 620 ug/l
trans-1,2-Dichloroethene: 11 ug/l
Trichloroethene: 3,400 ug/l
Vinyl Chloride: 78 ug/l

Total VOCs: 4,109 ug/l

MW-02
Acetone: 2.7 ug/l
Benzene: 0.23 ug/l
1,1-Dichloroethene: 0.26 ug/l
cis-1,2-Dichloroethene: 47 ug/l
trans-1,2-Dichloroethene: 0.3 ug/l
Toluene: 0.49 ug/l
Trichloroethene: 67 ug/l
Vinyl Chloride: 0.9 ug/l
m,p-Xylene: 0.43 ug/l
Methylcyclohexane: 0.52 ug/l

Total VOCs: 119.83 ug/l

MW-03
1,1-Dichloroethene: 3.2 ug/l
cis-1,2-Dichloroethene: 1,300 ug/l
trans-1,2-Dichloroethene: 15 ug/l
Trichloroethene: 520 ug/l
Vinyl Chloride: 39 ug/l

Total VOCs: 1,877.2 ug/l

MW-04
Acetone: 3.5 ug/l
1,4-Dichlorobenzene: 0.21 ug/l
1,1-Dichloroethene: 3.1 ug/l
cis-1,2-Dichloroethene: 1,400 ug/l
trans-1,2-Dichloroethene: 7.4 ug/l
Toluene: 0.2 ug/l
Trichloroethene: 410 ug/l
Vinyl Chloride: 48 ug/l
Methylcyclohexane: 0.21 ug/l

Total VOCs: 1,872.62 ug/l

MW-05
1,1-Dichloroethene: 3.2 ug/l
cis-1,2-Dichloroethene: 1,400 ug/l
trans-1,2-Dichloroethene: 15 ug/l
Trichloroethene: 1,000 ug/l
Vinyl Chloride: 20 ug/l

Total VOCs: 2,438.2 ug/l

SULLIVAN STREET
OBRIEN STREET
CUBA PLACE
JOSEPH AVENUE
Former Oven
Former Pit

NOTES:

Monitoring wells locations provided by Maques & Associates, P.C., dated June 6, 2019. These locations should be considered approximate.

Property boundaries provided by City of Rochester dated January 2018.

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

0 15 30 60 Feet

Last Date Saved: 01 Oct 2019 Document Path: \\DAYGIS\GIS_Data\GIS Mapping\Rocky\65 Sullivan Street\5582S-19\Rocky\Phase II\5582S-15-VOCsinGW.mxd

PROJECT MANAGER	JAD
DATE	10-2019
DRAWN BY	CPS
DATE DRAWN	10-2019
SCALE	AS NOTED
DATE ISSUED	10-01-2019

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

Project Title
65 SULLIVAN STREET
ROCHESTER, NEW YORK
PHASE II ENVIRONMENTAL SITE ASSESSMENT

Drawing Title
VOCs in June 6, 2019 Groundwater Samples

Project No.
5582S-19

FIGURE 12

TABLES

Table 1

65 Sullivan Street
Rochester, New York

Analytical Laboratory Testing Program

SOIL SAMPLES FROM TEST PITS

Location	Sample Depth (Ft.)	Date	PID (ppm)	Visual	Parameters Tested					
					VOCs	SVOCs	Metals	PCBs	TCLP VOCs	TO-15 VOCs
TP-01	1-2	5/1/2019	0.0	FILL (Brown Silty Sand, little Wood and Concrete)	1					
TP-02	2-4	5/1/2019	0.0	FILL (Brown/black Clayey Silt, Brick, Rock, Metal, Concrete and Glass)	1	1	1	1		
TP-03	10-11	5/1/2019	0.0	Dark brown/gray Clayey SILT, some Shale fragments	1					
TP-04	4-5	5/1/2019	0.0	FILL (Dark brown/black Clayey Silt and Sand, Metal Pipe, Wood, Rock, and Rubber)	1	1	1	1		
TP-05	8-8.5	5/1/2019	0.0	Tan Sandy SILT	1					
TP-06	10-10.5	5/1/2019	0.0	Gray/Brown/Red Clayey SILT, some Shale	1					
TP-07	8-8.5	5/1/2019	0.0	FILL (Gray/Black Sandy Silt, Organics, Concrete, Metal Post with Concrete, Brick, Slag, and Plastic)	1	1	1			
TP-08	4-5	5/1/2019	0.0	FILL (Brown Silty Sand and Gravel, some Brick, Metal, and Cinders)	1	1	1			
					8	4	4	2	0	0

SOIL SAMPLES FROM TEST BORINGS

Location	Sample Depth (ft)	Date	PID	Visual	Parameters Tested					
					VOCs	SVOCs	Metals	PCBs	TCLP Metals	Ign, Rea., pH
TB-01	6-8	5/9/2019	9.3	FILL (Dark brown Sand and Silt, little Concrete, trace Slag and Gravel)	1					
TB-02	4-6	5/7/2019	3.5	FILL (Black Sand and Silt, little Gravel, and Cinders)	1					
TB-03A	7.8-8.8	5/7/2019	1.6	FILL (Gray brown Concrete, Sand, Gravel, little Brick, Wood and black Cinders)	1	1	1			
MW-01	2-4	5/10/2019	3.7	FILL (Brown/black Silty Clay, some Gravel and Sand, trace Brick, Coal, Plastic and Wood).		1	1			
MW-01	6-6.9	5/10/2019	4.6	FILL (Black Silty Clay, some Gravel, Sand, Brick, Concrete, and Wood) Faint chemical-type odor	1					
MW-02	10-12	5/8/2019	7.0	Brown/gray Clayey SILT, trace Gravel	1					
MW-03	4-6	5/13/2019	2.4	FILL (Brown Silty Clay with trace Brick) Faint petroleum-type odor	1					
MW-04	6-7	5/9/2019	12.0	Brown Silty fine SAND	1					
MW-05	4-6	5/14/2019	0.3	FILL (Black Sand, some Silt and Cinders, little Brick and Gravel, trace Slag and Ash)		1	1	1		
MW-05	8-10	5/14/2019	0.9	Brown SILT, little fine Sand and Shale	1					
				Totals for Test Borings	8	3	3	1	0	0

GROUNDWATER SAMPLES FROM MONITORING WELLS

Location	Date	PID of Well Headspace	Sample Observations	Parameters Tested					
				VOCs	SVOCs	Metals	PCBs	TCLP VOCs	TO-15 VOCs
MW-01	6/6/2019	118.9	light yellow, clear	1					
MW-02	6/6/2019	333.9	brown, turbid	1					
MW-03	6/6/2019	367	clear	1					
MW-04	6/6/2019	198.2	clear, rainbow sheen, petroleum-type odor	1					
MW-05	6/6/2019	20.2	brown, turbid	1					
Trip Blank	6/6/2019	NA	NA	1					
				6	0	0	0	0	0

SOIL VAPOR EVALUATION SAMPLES

Location	Sample Depth (ft)	Date	PID	Visual	Parameters Tested					
					VOCs	SVOCs	Metals	PCBs	TCLP VOCs	TO-15 VOCs
SV-01	5.5-6.0	6/25/2019	NA	Off-Site soil vapor sample through asphalt pavement						1
OA-01	NA	6/25/2019	NA	Off-Site upwind background outdoor air sample above asphalt pavement						1
				Totals for Test Borings	0	0	0	0	0	2

INVESTIGATION DERIVED WASTE SAMPLE

Location	Sample Depth (ft)	Date	PID	Visual	Parameters Tested					
					VOCs	SVOCs	Metals	PCBs	TCLP VOCs	TO-15 VOCs
IDW-01 (Soil)	NA	6/28/2019	NA	Mixture of fill material, indigenous soils and dolomite drill fines					1	
				Totals for Test Borings	0	0	0	0	1	0

VOCs = TCL and CP51//STARS Volatile Organic Compounds via Method 8260
SVOCs = TCL Semi-Volatile Organic Compounds via Methods 8270
Metals = TAL Metals via Methods 6010 and 7471
PCBs = Polychlorinated Biphenyls via Method 8082
Sample PID reading was the greater value between headspace and ambient air screening results
= Included Matrix Spike/Matrix Spike Duplicate (MS/MSD)
PID Reading = Photoionization Detector Reading in parts per million (ppm)
TO-15 VOCs = TCL VOCs for air samples

TCL - Target Compound List
TAL - Target Analyte List
TCLP = Toxicity Characteristic Leaching Procedure
NA = Not Applicable

Table 2

65 Sullivan Street
Rochester, New York

Top of Competent Bedrock Elevation Data

Well ID	Elevation of Ground Surface (FT)	Static Water Level (SWL) Measurement (FT)	Groundwater Elevation (FT)
MW-01	493.06	10.30	482.76
MW-02	493.60	12.30	481.30
MW-03	493.76	12.00	481.76
MW-04	494.72	14.20	480.52
MW-05	494.22	13.10	481.12

Vertical control is referenced to NAVD88.

Table 3

65 Sullivan Street
Rochester, New York

Summary of Detected VOC Results in mg/Kg or Parts Per Million (ppm)

Soil and Fill Samples

Detected Constituent	CAS Number	A Unrestricted SCO (1)	B Residential SCO(1)	C Restricted Residential SCO(1)	D Commercial SCO(1)	G Protection of Groundwater SCO (1)	R1903957-001 TP-01 (1-2) 5//1/2019 FILL	R1903957-002 TP-02 (2-4) 5/1/2019 FILL	R1903957-003 TP-03 (10-11) 5/1/2019 SOIL	R1903957-004 TP-04 (4-5) 5/1/2019 FILL	R1903957-005 TP-05 (8-8.5) 5/1/2019 SOIL	R1903957-006 TP-06 (10-10.5) 5/1/2019 SOIL	R1903957-007 TP-07 (8-8.5) 5/1/2019 FILL	R1903957-008 TP-08 (4-5) 5/1/2019 FILL
1,1,1-Trichloroethane	71-55-6	0.68	100	100	500	0.68	U	U	0.00074 J	U	U	0.00022 J	U	0.00024 J
1,1-Dichloroethane	75-34-3	0.27	19	26	240	0.27	U	U	U	U	U	U	0.00032 J	U
1,2,4-Trimethylbenzene	95-63-6	3.6	47	52	190	3.6	0.00059 J	0.0026 J	0.00021 J	0.0017 J	0.0003 J	0.00024 J	0.00024 J	0.00036 J
1,3,5-Trimethylbenzene	108-67-8	8.4	47	52	190	8.4	0.00024 J	0.00058 J	U	0.00074 J	U	U	U	U
2-Butanone (MEK)	78-93-3	0.12	100	100	500	0.12	0.0073	0.029	U	0.0072 J	0.0019 J	0.0035 J	0.013	0.0024 J
4-Isopropyltoluene	99-87-6	NA	NA	NA	NA	10	U	0.00063 J	U	U	U	U	U	U
4-Methyl-2-pentanone (MIBK)	108-10-1	NA	NA	NA	NA	1	U	U	U	U	U	U	U	U
Acetone	67-64-1	0.05	100	100	500	0.05	**1.2** D **AG**	**0.19** **AG**	0.025	0.049	0.035	**0.062** **AG**	**0.097** **AG**	**0.088** **AG**
Benzene	71-43-2	0.06	2.9	4.8	44	0.06	U	0.00036 J	0.00018 J	0.00051 J	U	U	U	U
Carbon Disulfide	75-15-0	NA	100	NA	NA	2.7	U	0.0011 J	U	0.0036 J	U	U	0.00045 J	U
Chloroform	67-66-3	0.37	10	49	350	0.37	U	U	0.00032 J	U	U	U	U	U
Cyclohexane	110-82-7	NA	NA	NA	NA	NA	U	U	0.00048 J	0.0012 J	U	U	U	0.00025 J
Ethylbenzene	100-41-4	1	30	41	390	1	U	U	U	0.00026 J	U	U	U	U
Isopropylbenzene	98-82-8	NA	100	NA	NA	2.3	U	U	U	U	U	U	U	U
Methyl Acetate	79-20-9	NA	NA	NA	NA	NA	0.031	0.01	0.0087	0.0037 J	0.0073	0.023	0.014	0.011
Methyl tert-butyl Ether	1634-04-4	0.93	62	100	500	0.93	0.00052 J	0.00023 J	U	U	U	U	0.00017 J	0.00026 J
Methylcyclohexane	108-87-2	NA	NA	NA	NA	NA	U	0.00097 J	0.00045 J	0.0018 J	U	0.0003 J	0.00035 J	U
Naphthalene	91-20-3	12	100	100	500	12	0.00078 BJ	0.018	0.00087 BJ	0.001 BJ	0.0007 BJ	U	0.00058 BJ	U
Tetrachloroethene	127-18-4	1.3	5.5	19	150	1.3	0.00033 J	0.00026 J	0.0021 J	0.00043 J	0.0029 J	U	U	U
Toluene	108-88-3	0.7	100	100	500	0.7	0.00023 J	0.00052 J	0.00036 J	0.00087 J	0.00021 J	0.00028 J	0.00031 J	0.00031 J
Trichloroethene	79-01-6	0.47	10	21	200	0.47	U	U	**1.4** D **AG**	0.0003 J	0.11	0.015	0.00061 J	0.0084
Trichlorofluoromethane (Freon 11)	75-69-4	NA	NA	NA	NA	NA	0.00095 J	0.00031 J	U	U	U	U	U	U
cis-1,2-Dichloroethene	156-59-2	0.25	59	100	500	0.25	U	U	0.027	U	0.012	U	0.0024 J	U
m,p-Xylene	179601-23-1	0.26	100	100	500	1.6	U	0.00072 J	U	0.0012 J	U	U	U	U
n-Butylbenzene	104-51-8	12	100	100	500	12	U	0.00045 J	U	U	U	U	U	U
n-Propylbenzene	103-65-1	3.9	100	100	500	3.9	U	0.00036 J	U	0.0003 J	U	U	U	U
o-Xylene	95-47-6	0.26	100	100	500	1.6	U	0.00083 J	U	0.00092 J	U	U	U	0.00017 J
sec-Butylbenzene	135-98-8	11	100	100	500	11	U	0.00033 J	U	U	U	U	U	U
trans-1,2-Dichloroethene	156-60-5	0.19	100	100	500	0.19	U	U	0.00053 J	U	0.00028 J	U	0.00022 J	U
Total VOCs		NA	NA	NA	NA	NA	1.24194	0.25725	1.46694	0.0747	0.171	0.105	0.12965	0.1114

(1) = Soil Cleanup Objective (SCO) referenced in 6 NYCRR Part 375 dated 12/14/2006

Concentration in **BOLD** and **RED** print exceeds one or more of the following criteria.

A = Concentration Exceeds Unrestricted Use SCO

B = Concentration Exceeds Residential Use SCO

C = Concentration Exceeds Restricted Residential Use SCO

D = Concentration Exceeds Commercial Use SCO

G = Concentration Exceeds Protection of Groundwater SCO

B = Also detected in associated blank

J = Estimated Value

U = Not Detected

D = Data reported from a dilution

VOC = Volatile Organic Compound

NA = Not Available

Table 3

65 Sullivan Street
Rochester, New York

Summary of Detected VOC Results in mg/Kg or Parts Per Million (ppm)

Soil and Fill Samples

Detected Constituent	CAS Number	A Unrestricted SCO (1)	B Residential SCO(1)	C Restricted Residential SCO(1)	D Commercial SCO(1)	G Protection of Groundwater SCO (1)	R1904205-001 TB-02 (4-6) 5/7/2019 FILL	R1904205-002 TB-03A (7.8-8.8) 5/7/2019 FILL	R1904205-003 MW-02 (10-12) 5/8/2019 SOIL	R1904205-004 TB-01 (6-8) 5/9/2019 FILL	R1904205-005 MW-04 (6-7) 5/9/2019 SOIL	R1904291-002 MW-01 (6-6.9) 5/10/2019 FILL	R1904291-003 MW-03 (4-6) 5/13/2019 FILL	R1904291-005 MW-05 (8-10) 5/14/2019 SOIL
1,1,1-Trichloroethane	71-55-6	0.68	100	100	500	0.68	U	0.00054 J	U	U	U	U	U	0.0011 J
1,1-Dichloroethane	75-34-3	0.27	19	26	240	0.27	U	U	U	U	U	U	U	U
1,2,4-Trimethylbenzene	95-63-6	3.6	47	52	190	3.6	0.0029 J	0.0024 J	U	0.62 J	U	0.033	0.22 J	0.00029 J
1,3,5-Trimethylbenzene	108-67-8	8.4	47	52	190	8.4	0.0013 J	0.00091 J	U	0.45 J	U	0.015	0.074 J	0.00018 J
2-Butanone (MEK)	78-93-3	0.12	100	100	500	0.12	0.0094	0.012	U	U	0.0052	0.026	**0.3** J AG	0.0042 J
4-Isopropyltoluene	99-87-6	NA	NA	NA	NA	10	0.00028 J	0.00062 J	U	U	U	0.001 J	U	U
4-Methyl-2-pentanone (MIBK)	108-10-1	NA	NA	NA	NA	1	U	U	U	U	U	0.00044 J	U	U
Acetone	67-64-1	0.05	100	100	500	0.05	**0.061** AG	**6.5** D AG	**0.42** AG	**1.3** AG	**3.2** D AG	**0.084** AG	U	**0.58** D AG
Benzene	71-43-2	0.06	2.9	4.8	44	0.06	0.00087 J	U	U	U	U	0.00032 J	U	0.00033 J
Carbon Disulfide	75-15-0	NA	100	NA	NA	2.7	0.0049 J	U	U	U	U	0.01	U	U
Chloroform	67-66-3	0.37	10	49	350	0.37	U	U	U	U	U	U	U	0.00057 J
Cyclohexane	110-82-7	NA	NA	NA	NA	NA	0.0033 J	0.0017 J	U	U	U	0.0023 J	U	0.0011 J
Ethylbenzene	100-41-4	1	30	41	390	1	0.00045 J	U	U	U	U	0.00088 J	U	U
Isopropylbenzene	98-82-8	NA	100	NA	NA	2.3	0.00029 J	U	U	U	U	0.0016 J	U	U
Methyl Acetate	79-20-9	NA	NA	NA	NA	NA	0.0017 J	0.11	2.9	0.43 BJ	0.072	U	0.17 BJ	0.026
Methyl tert-butyl Ether	1634-04-4	0.93	62	100	500	0.93	U	0.00053 J	U	U	0.0004 J	U	U	0.00023
Methylcyclohexane	108-87-2	NA	NA	NA	NA	NA	0.0063	0.00089 J	U	U	U	0.0037 J	U	0.0011 J
Naphthalene	91-20-3	12	100	100	500	12	0.015	0.004 J	U	0.2 J	U	U	U	U
Tetrachloroethene	127-18-4	1.3	5.5	19	150	1.3	0.00026 J	0.00066 J	U	U	0.00037 J	U	U	0.0004 J
Toluene	108-88-3	0.7	100	100	500	0.7	0.0024 J	0.0018 J	U	U	U	0.00086 J	0.044 J	0.00072 J
Trichloroethene	79-01-6	0.47	10	21	200	0.47	U	0.0038 J	**2.4** AG	U	U	U	U	0.0089
Trichlorofluoromethane (Freon 11)	75-69-4	NA	NA	NA	NA	NA	0.0014 J	U	U	U	U	0.00067 J	U	0.00033 J
cis-1,2-Dichloroethene	156-59-2	0.25	59	100	500	0.25	U	U	0.037 J	U	U	U	U	U
m,p-Xylene	179601-23-1	0.26	100	100	500	1.6	0.0022 J	0.00088 J	U	U	U	0.0041 J	0.11 J	0.00053 J
n-Butylbenzene	104-51-8	12	100	100	500	12	0.00027 J	U	U	0.056 J	U	0.00058 J	0.031 J	U
n-Propylbenzene	103-65-1	3.9	100	100	500	3.9	0.00047 J	0.00047 J	U	U	U	0.00098 J	U	U
o-Xylene	95-47-6	0.26	100	100	500	1.6	0.0014 J	0.00078 J	U	0.085 J	U	0.011	0.06 J	U
sec-Butylbenzene	135-98-8	11	100	100	500	11	U	U	U	0.06 J	U	0.00081 J	U	U
trans-1,2-Dichloroethene	156-60-5	0.19	100	100	500	0.19	U	U	U	U	U	U	U	U
Total VOCs		NA	NA	NA	NA	NA	0.11609	6.642	5.757	3.20100	3.27797	0.19724	1.00900	0.62598

(1) = Soil Cleanup Objective (SCO) referenced in 6 NYCRR Part 375 dated 12/14/2006

Concentration in **BOLD** and **RED** print exceeds one or more of the following criteria.

A = Concentration Exceeds Unrestricted Use SCO

B = Concentration Exceeds Residential Use SCO

C = Concentration Exceeds Restricted Residential Use SCO

D = Concentration Exceeds Commercial Use SCO

G = Concentration Exceeds Protection of Groundwater SCO

B = Also detected in associated blank

J = Estimated Value

U = Not Detected

D = Data reported from a dilution

VOC = Volatile Organic Compound

NA = Not Available

Table 4

65 Sullivan Street
Rochester, New York

Summary of Detected SVOC Results in mg/Kg or Parts Per Million (ppm)

Soil and Fill Samples

Detected Constituent	CAS Number	A Unrestricted SCO (1)	B Residential SCO(1)	C Restricted Residential SCO(1)	D Commercial SCO(1)	G Protection of Groundwater SCO (1)	R1903957-002 TP-02 (2-4) 5/1/2019 FILL	R1903957-004 TP-04 (4-5) 5/1/2019 FILL	R1903957-007 TP-07 (8-8.5) 5/1/2019 FILL	R1903957-008 TP-08 (4-5) 5/1/2019 FILL	R1904205-002 TB-03A (7.8-8.8) 5/7/2019 FILL	R1904291-00 MW-01 (2-4) 5/10/2019 FILL	R1904291-004 MW-05 (4-6) 5/14/2019 FILL
Acenaphthene	83-32-9	20	100	100	500	98	0.097 J	U	U	U	U	3.800	U
Acenaphthylene	208-96-8	100	100	100	500	107	0.120 J	U	U	U	0.360 J	U	U
Anthracene	120-12-7	100	100	100	500	1000	0.330 J	U	U	0.071 J	0.160 J	7.100	U
Benzo(a)anthracene	56-55-3	1	1	1	5.6	1	0.890	0.400 J	0.120 J	0.290 J	**1.100** ABCG	**12.000** ABCDG	0.440 J
Benzo(a)pyrene	50-32-8	1	1	1	1	22	0.820	0.410 J	0.150 J	0.270 J	**1.100** ABCD	**10.000** ABCD	0.450 J
Benzo(b)fluoranthene	205-99-2	1	1	1	5.6	1.7	**1.000** ABC	0.570 J	0.180 J	0.320 J	**1.400** ABC	**13.000** ABCDG	0.660 J
Benzo(g,h,i)perylene	191-24-2	100	100	100	500	1000	0.520	0.380 J	0.110 J	0.180 J	0.910	6.200	0.370 J
Benzo(k)fluoranthene	207-08-9	0.8	1.0	3.9	56	1.7	0.370 J	U	U	0.120 J	0.530	**4.900** ABCG	U
Butyl benzyl phthalate	85-68-7	NA	100	NA	NA	122	U	U	U	U	U	11.000	U
Carbazole	86-74-8	NA	NA	NA	NA	NA	0.150 J	U	U	U	U	4.100	U
Chrysene	218-01-9	1	1	3.9	56	1	0.840	0.450 J	0.140 J	0.280 J	**1.000** ABG	**12.000** ABCG	0.470 J
Dibenzo(a,h) anthracene	53-70-3	0.33	0.33	0.33	0.56	1000	0.120 J	U	U	U	0.190 J	**1.600** J ABCD	U
Dibenzofuran	132-64-9	7	14	59	350	210	U	U	U	U	0.100 J	2.000 J	U
Di-n-butyl phthalate	84-74-2	NA	100	NA	NA	8.1	U	U	U	U	U	2.000 J	U
Fluoranthene	206-44-0	100	100	100	500	1000	1.800	0.790 J	0.260 J	0.550	2.000	35.000	1.100
Fluorene	86-73-7	30	100	100	500	386	0.130 J	U	U	U	U	3.800	U
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.5	0.5	5.6	8.2	**0.520** ABC	0.280 J	0.100 J	0.170 J	**0.860** ABC	**6.200** ABCD	0.310 J
Naphthalene	91-20-3	12	100	100	500	12	U	U	U	U	U	1.700 J	U
Phenanthrene	85-01-8	100	100	100	500	1000	1.100	0.440 J	0.130 J	0.290 J	0.750	25.000	0.580 J
Pyrene	129-00-0	100	100	100	500	1000	1.500	0.710 J	0.250 J	0.510	1.900	27.000	0.930 J
Total SVOCs		NA	NA	NA	NA	NA	10.307	4.430	1.440	3.051	12.360	188.400	5.310

(1) = Soil Cleanup Objective (SCO) referenced in 6 NYCRR Part 375 dated 12/14/2006

Concentration in **BOLD** and **RED** print exceeds one or more of the following criteria.

A = Concentration Exceeds Unrestricted Use SCO

B = Concentration Exceeds Residential Use SCO

C = Concentration Exceeds Restricted Residential Use SCO

D = Concentration Exceeds Commercial Use SCO

G = Concentration Exceeds Protection of Groundwater SCO

SVOC = Semi-Volatile Organic Compound

U = Not detected

J = Estimated Value

NA = Not Available

Table 5

65 Sullivan Street
Rochester, New York

Summary of Metals Results in mg/Kg or Parts Per Million (ppm)

Soil and Fill Samples

Detected Analyte	CAS Number	A Unrestricted SCO (1)	B Residential SCO(1)	C Restricted Residential SCO(1)	D Commercial SCO(1)	G Protection of Groundwater SCO (1)	R1903957-002 TP-02 (2-4) 5/1/2019 FILL			R1903957-004 TP-04 (4-5) 5/1/2019 FILL			R1903957-007 TP-07 (8-8.5) 5/1/2019 SOIL			R1903957-008 TP-08 (4-5) 5/1/2019 FILL			R1904205-002 TB-03A (7.8-8.8) 5/7/2019 FILL			R1904291-001 MW-01 (2-4) 5/10/2019 FILL			R1904291-004 MW-05 (4-6) 5/14/2019 FILL		
Aluminum	7429-90-5	NA	NA	NA	NA	NA	4840			4830			7290			4750			5970			8770			4530		
Antimony	7440-36-0	NA	NA	NA	NA	NA	U			U			U			U			U			U			U		
Arsenic	7440-38-2	13	16	16	16	16	10.0			6.3			6.1			3.5			4.8			4.8			9.9		
Barium	7440-39-3	350	350	400	400	820	111			167			61.7			22.4			143			70.7			70.1		
Beryllium	7440-41-7	7.2	14	72	590	47	0.32			0.28	J		0.31	J		0.22	J		0.23	J		0.45			0.31		
Cadmium	7440-43-9	2.5	2.5	4.3	9.3	7.5	0.63			0.68			0.41	J		0.77			0.14	J		0.43	J		0.22	J	
Calcium	7440-70-2	NA	NA	NA	NA	NA	45100			73200			13800			152000			86500			43400			103000		
Chromium	7440-47-3	30	36	180	1500	NA	11.7			7.5			8.8			6.6			12.1			13.4			7.7		
Cobalt	7440-48-4	NA	30	NA	NA	NA	3.9	J		3.4	J		4.5	J		3.4	J		3.4	J		5.0	J		2.8	J	
Copper	7440-50-8	50	270	270	270	1720	**104**		**A**	16.0			19.4			13.7			11.9			20.4			10.3		
Iron	7439-89-6	NA	NA	NA	NA	NA	12200			11400			11800			9830			8360			15600			10700		
Lead	7439-92-1	63	400	400	1000	450	**74.4**		**A**	**65.9**		**A**	**308**		**A**	13.1			36.5			**79.7**		**A**	22.3		
Magnesium	7439-95-4	NA	NA	NA	NA	NA	15500			29500			4750			48200			12200			13100			35100		
Manganese	7439-96-5	1600	2000	2000	10000	2000	315			259			164			630			520			325			250		
Mercury	7439-97-6	0.18	0.81	0.81	2.8	0.73	0.132			0.117			**0.826**		**ABCG**	0.062			**0.67**		**A**	0.066			0.069		
Nickel	7440-02-0	30	140	310	310	130	10.0			8.5			7.8			7.2			8.1			11.1			7.4		
Potassium	9/7/7440	NA	NA	NA	NA	NA	1010			1230			670			1480			1530			1560			1340		
Selenium	7782-49-2	3.9	36	180	1500	4	U			U			U			U			U			U			U		
Silver	7440-22-4	2	36	180	1500	8.3	0.6	J		1.4			0.3	J		U			U			0.5	J		**7.6**		**A**
Sodium	7440-23-5	NA	NA	NA	NA	NA	330			340			160			170			550			500			390		
Thallium	7440-28-0	NA	NA	NA	NA	NA	1.0	J		1.7			U			3.9			2.3			U			2.8		
Vanadium	7440-62-2	NA	100	NA	NA	NA	15.2			14.3			13.8			9.7			13.3			17.7			14.0		
Zinc	7440-66-6	109	2200	10000	10000	2480	**213**		**A**	238			81.1			57.1			58.6			81.7			36.9		

(1) = Soil Cleanup Objective (SCO) referenced in 6 NYCRR Part 375 dated 12/14/2006

Concentration in **BOLD** and **RED** print exceeds one or more of the following criteria.

A = Concentration Exceeds Unrestricted Use SCO

B = Concentration Exceeds Residential Use SCO

C = Concentration Exceeds Restricted Residential Use SCO

D = Concentration Exceeds Commercial Use SCO

G = Concentration Exceeds Protection of Groundwater SCO

U = Not Detected

J = Estimated Value

NA = Not Available

NT = Not Tested

Table 6

65 Sullivan Street
Rochester, New York

Summary of PCB Results in mg/Kg or Parts Per Million (ppm)

Fill Samples

Constituent	CAS Number	A Unrestricted SCO (1)	B Residential SCO(1)	C Restricted Residential SCO(1)	D Commercial SCO(1)	G Protection of Groundwater SCO (1)	R1903957-002 TP-02 (2-4) 5/1/2019 Fill		R1903957-004 TP-04 (4-5) 5/1/2019 Fill		R1904291-004 MW-05 (4-6) 5/14/2019 Fill	
Aroclor-1016	12674-11-2	0.1	1	1	1	3.2	U		U		U	
Aroclor-1221	11104-28-2	0.1	1	1	1	3.2	U		U		U	
Aroclor-1232	11141-16-5	0.1	1	1	1	3.2	U		U		U	
Aroclor-1242	53469-21-9	0.1	1	1	1	3.2	U		U		U	
Aroclor-1248	12672-29-6	0.1	1	1	1	3.2	U		U		U	
Aroclor-1254	11097-69-1	0.1	1	1	1	3.2	U		U		U	
Aroclor-1260	11096-82-5	0.1	1	1	1	3.2	**1.6**	**ABCD**	U		U	
Total PCBs		0.1	1	1	1	3.2	**1.6**	**ABCD**	0.0		0.0	

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

U = Not detected

PCB = Polychlorinated Biphenyl

Table 7

65 Sullivan Street
Rochester, New York

Groundwater Elevation Data for June 6, 2019

Well ID	Elevation of Ground Surface (FT)	Elevation of Top of PVC Well Casing (FT)	Static Water Level (SWL) Measurement (FT)	Groundwater Elevation (FT)
MW-01	493.06	492.62	9.69	482.93
MW-02	493.60	493.06	9.63	483.43
MW-03	493.76	493.51	11.63	481.88
MW-04	494.72	494.38	12.15	482.23
MW-05	494.22	493.95	12.03	481.92

The oil/water interface probe did not detect light non-aqueous phase liquid (LNAPL) or dense non-aqueous phase liquid (DNAPL) at the well locations during collection of static water level measurements

Vertical control is referenced to NAVD88.

Static water levels measured from top of PVC well casings

Table 8

65 Sullivan Street
Rochester, New York

Summary of Detected VOC Results in ug/l or ppb

Groundwater Samples

Detected Constituent	CAS Number	Groundwater Standard or Guidance Value [1]	R1905223-001 MW-01 6/6/2019 Groundwater		R1905223-002 MW-02 6/6/2019 Groundwater		R1905223-003 MW-03 6/6/2019 Groundwater		R1905223-004 MW-04 6/6/2019 Groundwater		R1905223-005 MW-05 6/6/2019 Groundwater	
Acetone	67-64-1	50	U		2.7 J		U		3.5 J		U	
Benzene	71-43-2	1	U		0.23 J		U		U		U	
1,4-Dichlorobenzene	106-46-7	3	U		U		U		0.21 J		U	
1,1-Dichloroethene	75-35-4	5	U		0.26 J		3.2 J		3.1 J		3.2 J	
cis-1,2-Dichloroethene	156-59-2	5	620	X	47	X	1300	X	1400 D	X	1400	X
trans-1,2-Dichloroethene	156-60-5	5	11 J	X	0.3 J		15 J	X	7.4	X	15 J	X
Toluene	108-88-3	5	U		0.49 J		U		0.2 J		U	
Trichloroethene	79-01-6	5	3400	X	67	X	520	X	410 D	X	1000	X
Vinyl chloride	75-01-4	2	78 J	X	0.9 J		39 J	X	48	X	20 J	X
m,p-Xylene	179601-23-1	5	U		0.43 J		U		U		U	
Methylcyclohexane	108-87-2	NA	U		0.52 J		U		0.21 J		U	
Total VOCs		NA	4109.0		119.83		1877.2		1872.62		2438.2	

U = Not detected

J = Estimated value

D = Data reported from a dilution

ug/l = Micrograms per liter

ppb - Parts per billion

[1] Groundwater standard or guidance value are as referenced in NYSDEC TOGS 1.1.1 dated June 1998 with April 2000 and June 2004 addendums.

X = Concentration exceeds groundwater standard or guidance value

VOC = Volatile Organic Compound

NA = Not available

Table 9

65 Sullivan Street
Rochester, New York

Summary of Detected VOC Results in ug/m^3
Soil Vapor and Outdoor Air Samples

Detected Compound	CAS Number	A EPA BASE 90th Percentile for Outdoor Air	P1903890-001 SV-01 Soil Vapor 6/25/2019		P1903890-002 OA-01 Outdoor Air 6/25/2019	
1,1,1-Trichloroethane	71-55-6	2.6	1.1		U	
Acetone	67-64-1	43.7	250.0		11.0	
Acrylonitrile	107-13-1	NA	0.98		U	
Acrolein	107-02-8	NA	17.0		U	
Benzene	71-43-2	6.6	17.0		U	
2-Butanone (MEK)	78-93-3	11.3	40.0		U	
Dichlorodifluoromethane (Freon 12)	75-71-8	8.1	3.6		2.0	
Ethanol	64-17-5	57.0	30.0		U	
Ethyl Acetate	141-78-6	1.5	4.2		**4.5**	**A**
Ethylbenzene	100-41-4	3.5	5.7		U	
4-Ethyltoluene	622-96-8	3.0	2.4		U	
Heptane	142-82-5	NA	6.4		U	
Hexane	110-54-3	6.4	5.5		U	
2-Hexanone (MBK)	591-78-6	NA	1.1		U	
4-Methyl-2-Pentanone (MIBK)	108-10-1	1.9	1.0		U	
Naphthalene	91-20-3	4.9	0.96		U	
Propene	115-07-1	NA	26.0		U	
Propylbenzene	103-65-1	NA	1.5		U	
Toluene	108-88-3	33.7	31.0		1.2	
Trichlorofluoromethane (Freon 11)	75-69-4	4.3	9.6		1.0	
1,2,4-Trimethylbenzene	95-63-6	5.8	11.0		U	
1,3,5-Trimethylbenzene	108-67-8	2.7	2.9		U	
m,p-Xylene	179601-23-1	12.8	23.0		U	
o-Xylene	95-47-6	4.6	8.7		U	
Vinyl Acetate	108-05-4	NA	14.0		U	
n-Butyl Acetate	123-86-4	<5.8	1.9		U	
n-Octane	111-65-9	1.6	3.4		U	
n-Nonane	111-84-2	2.8	3.0		U	
alpha-Pinene	80-56-8	<6.2	3.5		U	
d-Limonene	5989-27-5	3.6	1.4		U	

Notes

Concentrations and comparison criteria in ug/m^3

NA = Not available

VOC = Volatile Organic Compound

U = Compound was analyzed but not detected, detection limit shown in parenthesis.

(A) 90th Percentiles of EPA 2001 Building Assessment and Survey Evaluation (BASE) database for Outdoor Air referenced in the NYSDOH document titled "Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York" dated October 2006.

Bold and **A** = Exceeds Air Benchmark Value noted.

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).

APPENDIX A

Photo Log

Photolog
Phase II Environmental Site Assessment
65 Sullivan Street
Rochester, New York

Test Pit TP-01 – looking northwest (5/1/2019)

Test Pit TP-06 (5/1/2019)

Test Pit TP-07 – looking north (5/1/2019)

Test Pit TP-07 – looking northeast (5/1/2019)

Test Pit TP-08 (5/1/2019)

Test Pit TP-08 – looking southwest (5/1/2019)

Test Pit TP-05 – looking east (5/1/2019)

Test Pit TP-05 – looking northeast (5/1/2019)

Test Pit TP-02 – looking west (5/1/2019)

Test Pit TP-03 – looking east (5/1/2019)

Test Boring TB-02 – looking east (5/7/2019)

Monitoring Well MW-02 – looking southeast (5/8/2019)

Split Spoon sample from Monitoring Well MW-01 (5/9/2019)

Monitoring Well MW-01 – looking northwest (5/9/2019)

Monitoring Well MW-04 – looking east (5/9/2019)

Monitoring Well MW-04 Rock Core with Sheen (5/9/2019)

Monitoring Well MW-03 – looking south (5/13/2019)

Monitoring Well MW-05 – looking east

Split Spoon sample from Monitoring Well MW-05

APPENDIX B

Field Logs and Construction Diagrams

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ENVIRONMENTAL CONSULTANTS
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Project #:	5582S-19		
Project Address:	65 Sullivan Street		
	Rochester, New York	Date:	5/1/2019
DAY Representative:	J. Danzinger	Test Pit Depth:	11.5'
Contractor:	Nature's Way	Depth to Water:	9.0'
Equipment:	Kubota KX057-4 Excavator		

TEST PIT TP-01

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0			Medium Brown, Silty Sand with little Wood and Concrete mass - possible housing footer (FILL), dry	
2-	0.0			Rusty Tan/Light Brown, Sandy Silt, 5' long 8" thick Metal beam (FILL), dry	
3-	0.0				
4-	0.0				
5-	0.0				
6-	0.0			Gray/Brown, Silty SAND, trace Boulder, dry	
7-	0.0				
8-	0.0			Gray-Brown/Reddish Brown, Clayey SILT with trace Cobbles and fractured Rock, moist ...little standing water	
9-	0.0			Gray, SILT and GRAVEL, wet	
10-	0.0			Clayey SILT, wet ...rounded Cobbles, very moist	
11-				Reddish-Brown, Silty CLAY with fractured Shale	
12-				Terminated @ 11.5'	
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 a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.
4) NA = Not Available or Not Applicable

TEST PIT TP-01

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TEST PIT TP-02

Project #:	5582S-19		
Project Address:	65 Sullivan Street		
	Rochester, New York	Date:	5/1/2019
DAY Representative:	J. Danzinger	Test Pit Depth:	10.0'
Contractor:	Nature's Way	Depth to Water:	Not Encountered
Equipment:	Kubota KX057-4 Excavator		

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0			Brown/Black, Clayey Silt, some Brick fragments, Rocks, Metal, Concrete pieces, and Glass (FILL), moist	
5-	0.0			...more Glass (FILL), moist	
6-	0.0			…1.0' x 1.5' Concrete pieces (FILL)	
7-	0.0			Light Brown, Sandy Silt and Brick (FILL), moist	
9-	0.0				
10-				Concrete structure @ end of TP (likely housing footer)	
				Refusal @ 10.0'	

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 a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.
4) NA = Not Available or Not Applicable

TEST PIT TP-02

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Project #:	5582S-19		
Project Address:	65 Sullivan Street		
	Rochester, New York	Date:	5/1/2019
DAY Representative:	J. Danzinger	Test Pit Depth:	11.0'
Contractor:	Nature's Way	Depth to Water:	Not Encountered
Equipment:	Kubota KX057-4 Excavator		

TEST PIT TP-03

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0			Dark Brown, Silty Sand with Gravel, some Brick and fractured Rock (FILL), moist	
2-					
3-	0.0			Orange Brown/Tan, Sandy SILT, moist	
4-				...Grayish Tan, Sandy SILT, moist	
5-	0.0				
6-					
7-	0.0			...Cobbles, Boulders, moist	
8-					
9-					
10-	0.0			...Dark Brown/Gray, Clayey Silt with Shale fragments, very moist	
11-				...hard surface (likely SHALE bedrock)	
12-				Refusal @ 11.0'	
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 a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.
4) NA = Not Available or Not Applicable

TEST PIT TP-03

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Project #:	5582S-19		
Project Address:	65 Sullivan Street		
	Rochester, New York	Date:	5/1/2019
DAY Representative:	J. Danzinger	Test Pit Depth:	10.0'
Contractor:	Nature's Way	Depth to Water:	Not Encountered
Equipment:	Kubota KX057-4 Excavator		

TEST PIT TP-04

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0			Dark Brown/Black, Clayey Silt and Sand, some Metal Pipe, Bricks, Wood, and fractured Rock (FILL), moist	
2-					
3-					
4-	0.0			...Gravel, Rubber, Wood (FILL), moist	
5-	0.0			...Light Brown, Sandy Silt (FILL)	
6-	0.0			…1.0' thick layer of Brick (FILL)	
7-				Light Brown, Sandy SILT, moist	
8-					
9-					
10-				Terminated @ 10.0'	
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 a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.
4) NA = Not Available or Not Applicable

TEST PIT TP-04

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TEST PIT TP-05

Project #:	5582S-19		
Project Address:	65 Sullivan Street		
	Rochester, New York	Date:	5/1/2019
DAY Representative:	J. Danzinger	Test Pit Depth:	9.0'
Contractor:	Nature's Way	Depth to Water:	9.0'
Equipment:	Kubota KX057-4 Excavator		

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0			Light Brown/Gray, Silty Sand and Gravel, some Brick, Wood, and Rock fragments (FILL), moist	
5-	0.0			...Black/Dark Gray, Wood and Brick, Sandy Silt and Gravel (FILL), saturated	
6-	0.0				
6-				Tan, Sandy SILT, moist	
8-	0.0				
9-				Refusal @ 9.0'	

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 a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.
4) NA = Not Available or Not Applicable

TEST PIT TP-05

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Project #:	5582S-19		
Project Address:	65 Sullivan Street		
	Rochester, New York	Date:	5/1/2019
DAY Representative:	J. Danzinger	Test Pit Depth:	11.0'
Contractor:	Nature's Way	Depth to Water:	10.0'
Equipment:	Kubota KX057-4 Excavator		

TEST PIT TP-06

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.1			Black/Brown Sand and Silt, some Brick, Cobbles, Plastic, Rock and Wood (FILL)	
2-				…Metal (FILL)	
3-	0.0			Orange/Light Brown, Sandy Silt (FILL)	
4-					
5-				Tan, Sandy SILT	
6-					
7-					
8-	0.0				
9-	0.0			Gray-Brown/Reddish-Brown, Clayey SILT with fractured Shale, moist	
10-	0.0				
11-					
12-				Terminated @ 11.0'	
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.
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4) NA = Not Available or Not Applicable

TEST PIT TP-06

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Project #:	5582S-19		
Project Address:	65 Sullivan Street		
	Rochester, New York	Date:	5/1/2019
DAY Representative:	J. Danzinger	Test Pit Depth:	8.0'
Contractor:	Nature's Way	Depth to Water:	8.5'
Equipment:	Kubota KX057-4 Excavator		

TEST PIT TP-07

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0			Dark Gray/Black, Sandy Silt with Organics(tree roots), some Concrete, Brick, Slag, Plastic, Concrete, Conduit (FILL), moist	1-
2-	0.0				2-
3-	0.0				3-
4-	0.0				4-
5-				…Some Glass, Plastic (FILL)	5-
6-					6-
7-				2" diameter Fence Post/Pipe encased in Concrete (FILL)	7-
8-	0.0			...standing water ...hard surface (possible basement floor), moist, septic-type odor	8-
9-				Refusal @ 8.5'	9-
10-					10-
11-					11-
12-					12-
13-					13-
14-					14-
15-					15-
16-					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 a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.
4) NA = Not Available or Not Applicable

TEST PIT TP-07

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Project #:	5582S-19		
Project Address:	65 Sullivan Street		
	Rochester, New York	Date:	5/1/2019
DAY Representative:	J. Danzinger	Test Pit Depth:	9.0'
Contractor:	Nature's Way	Depth to Water:	9.0'
Equipment:	Kubota KX057-4 Excavator		

TEST PIT TP-08

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0			Medium Brown, Silty Sand and Gravel, some Brick, Metal, and Cinders (FILL), moist	
2-	0.0			...Metal Ladder/Grate (FILL)	
3-					
4-	0.0			...hard surface @ bottom of TP (southern portion)	
5-				6' long, 2" diameter Pipe (Fill)	
6-	0.0			... Orange Tan/Light Brown, Sandy SILT	
7-				…mostly Tan, Clayey Silt (FILL)	
8-					
9-				...water entering test pit excavation	
10-				Terminated @ 9.0'	
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 a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.
4) NA = Not Available or Not Applicable

TEST PIT TP-08

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Project #: 5582S-19
Project Address: 65 Sullivan Street
Rochester, New York
DAY Representative: J. Danzinger
Drilling Contractor: Nature's Way
Sampling Method: Split Spoon, Rotary Model 57-B

Test Boring TB-01

Ground Elevation: NA Datum: NA
Date Started: 5/9/2019 Date Ended: 5/9/2019
Borehole Depth: 12.3' Borehole Diameter: 8"
Completion Method: ☐ Well Installed ☐ Backfilled with Grout ■ Backfilled with Cuttings
Water Level (Date): Not Encountered

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	S-1	0-2	75	37	0.5	0.0	Brown, Sandy (Topsoil) SILT, damp	
	12						0.0	Brown, Silt, some Sand, Gravel, damp (FILL)	
	25						0.0		
2	23						0.0	Red Brick and Glass, damp (FILL)	
3	10	S-2	2-4	65	36	5.1	0.0	Black, Sand, Gravel, Glass and Silt, moist (FILL)	
	22						0.0	Gray, Concrete and Sand, moist (FILL)	
	14						0.0		
4	10						0.0	Dark Brown, Silt, some Sand, little Gravel, moist (FILL)	
5	5	S-3	4-6	70	9	2.7	0.0	Sand, Silt, little Concrete, trace Slag, trace Gravel, moist (FILL)	
	4						0.0		
	5						0.0		
6	5						0.0		
7	4	S-4	6-8	25	11	9.3	0.0		
	7						0.0		
	4						0.0		
8	41						0.0		
9	6	S-5	8-10	80	23	1.9	0.0		
	12						0.0		
	11						0.0		
10	9						0.0		
11	6	S-6	10-12	50	NA	8.2	0.0	Brown, fine Sandy SILT, little Clay, moist	
	21						0.0	...moist	
	50/4						0.0	Gray, weathered SHALE, moist	
12	50/4	S-7	12-12.3	0	NA	NA	NA	No recovery	
13								Equipment Refusal @ 12.3'	
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-01

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Project #: 5582S-19
Project Address: 65 Sullivan Street
Rochester, New York
DAY Representative: J. Danzinger
Drilling Contractor: Nature's Way
Sampling Method: Split Spoon, Rotary Model 57-B

Test Boring TB-02

Ground Elevation: NA Datum: NA
Date Started: 5/7/2019 Date Ended: 5/7/2019
Borehole Depth: 13.5' Borehole Diameter: 8"
Completion Method: ☐ Well Installed ☐ Backfilled with Grout ■ Backfilled with Cuttings
Water Level (Date): Not Encountered

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	S-1	0-2	50	36	0.9	0.0	Topsoil	
	13						0.0	Brown, reworked Sandy Silt, some Brick, Coal, Asphalt and Glass, moist (FILL)	
	23						0.1		
2	26						0.1		
	15	S-2	2-3.4	50	NA	0.5	0.0		
3	26						0.0		
	50/4						0.1		
4							0.1	...Black, moist (FILL)	
	9	S-3	4-6	70	28	3.5	0.0		
5	16						0.1	Black, Sand, Silt, little Gravel, Cinders, moist (FILL)	
	12						0.3		
6	14						0.3		
	35	S-4	6-8	30	24	2.9	0.0	Gray/Brown, Sand, some Silt, Concrete with Gravel, moist (FILL)	
7	16						0.1		
	8						0.0		
8	14								
	18	S-5	8-10	65	32	2.3	0.0	...little Cinders (FILL)	
9	15						0.0	Brown, mottled, fine Sandy SILT, moist	
	17						0.0		
10	26						0.0		
	29	S-6	10-12	70	67	1.3	0.2	Brown, Silty fine SAND, some hard Shale Rock fragments, moist	
11	30						0.3		
	37						0.1		
12	26						0.1		
	8	S-7	12-12.8	90	NA	3.1	0.1	Gray/Brown, fine Sandy SILT, some dark gray Shale fragments, very moist	
13	50/3						0.2		
14								Equipment Refusal @ 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 TB-02

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AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 5582S-19
Project Address: 65 Sullivan Street
Rochester, New York
DAY Representative: J. Danzinger
Drilling Contractor: Nature's Way
Sampling Method: Split Spoon, Rotary Model 57-B

Test Boring TB-03

Ground Elevation: NA
Datum: NA
Date Started: 5/7/2019
Date Ended: 5/7/2019
Borehole Depth: 5.0'
Borehole Diameter: 8"
Completion Method: ☐ Well Installed ☐ Backfilled with Grout ■ Backfilled with Cuttings
Water Level (Date): Not Encountered

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	2	S-1	0-2	65	35	3.5	0.1	Brown, Topsoil Sandy Silt, little Brick & Gravel, moist (FILL)	
	17						0.1		
	18						0.1	Gray/Brown, Sand, Gravel & Concrete, little Glass and Rock, moist (FILL)	
2	11						0.1		
	32	S-2	2-4	95	NA	1.1	0.0	Gray/Brown, Sand, Gravel and Concrete, moist (FILL)	
3	50/4						0.0		
4	NA	NA	NA	NA	NA	NA	NA	Auger through apparent concrete	
5								Equipment Refusal @ 5.0'	
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-03

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Project #: 5582S-19
Project Address: 65 Sullivan Street
Rochester, New York
DAY Representative: J. Danzinger
Drilling Contractor: Nature's Way
Sampling Method: Split Spoon, Rotary Model 57-B

Test Boring TB-03A

Ground Elevation: NA Datum: NA
Date Started: 5/7/2019 Date Ended: 5/7/2019
Borehole Depth: 14.1' Borehole Diameter: 8"
Completion Method: ☐ Well Installed ☐ Backfilled with Grout ■ Backfilled with Cuttings
Water Level (Date): 12.0' (5/7/19)

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								Auger to 4'	
2	NA	NA	NA	NA	NA	NA	NA		
3									
4	18						0.1	Black/Gray, Sand, some reworked Shale, some Concrete and Gravel, moist (FILL)	
	23	S-1	4-6	70	42	1.0	0.0		
5	19						0.0		
	23						0.0		
6	27						0.1	Gray/Brown, Concrete, Sand, Gravel, little Brick, moist (FILL)	
	50/2	S-2	6-6.8	80	NA	0.8	0.0		
7									
8	47						0.5		
	14	S-3	7.8-9.8	65	24	1.6	0.6	...little Wood and black Cinders (FILL)	
9	10						0.2		
	6						0.0		
10	8						0.1	Gray/Brown, firm SILT and fine SAND, moist	
	12	S-4	10-12	70	23	2.0	0.1		
11	11						0.0		
	19						0.1		
12	21						0.1	...wet, little black Shale fragments, trace Clay	
	31	S-5	12-14	65	64	1.3	0.3		
13	33						0.4		
	50						0.2	Gray, broken SHALE, wet	
14								Equipment Refusal @ 14.1'	
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-03A

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DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 5582S-19
Project Address: 65 Sullivan Street
Rochester, New York
DAY Representative: H. McLennan
Drilling Contractor: Nature's Way
Sampling Method: Split Spoon, Rotary Model 57-B

Test Boring MW-01

Ground Elevation: 493.06' Datum: NAVD88
Date Started: 5/10/2019 Date Ended: 5/10/2019
Borehole Depth: 15.5' Borehole Diameter: 8"
Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): 9.69' (6/6/19)

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	2	S-1	0-2	42	17	3.7	0.0	Brown, Topsoil, wet (FILL)	
	8						0.0	Brown, Sand, some Silt and Gravel, trace red Brick, moist (FILL)	
	9						0.0		
2	9						0.0		
3	3	S-2	2-4	67	16	3.7	0.0	Brown, Silty Clay, some Gravel and Sand, traces of red Brick, Coal, Plastic, decayed	
	8						0.1	Wood, moist (FILL)	**black staining 3-4'**
	8						0.0		
4	5						0.1		
5	15	S-3	4-6	58	21	4.6	0.0	...broken Concrete and red Brick and decayed Wood (FILL)	
	10						0.1		
	11						0.0		
6	8						0.0		
7	4	S-4	6-8	78	NA	4.6	0.1		
	50/5						0.1	...Black staining (FILL)	
8									**Chemical-type odor**
9	3	S-5	8-10	67	12	10.1	0.0	Tan/Brown, SAND, some Clay and Silt, damp to moist	
	6						0.0		
	6						0.0		
10	8						0.0	...moist to wet	
	50-3	S-6	10-10.3	100	NA	8.3	0.1	...broken Angular Gray DOLOMITE	
11	NA	C-1	10.3-15.5	100	44	NA		Gray, DOLOMITE, some fractures, some vugs (<5 per ft.)	**HQ Core**
12									
13									
14									
15									
16								Terminated @ 15.5'	

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 MW-01

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Project #: 5582S-19
Project Address: 65 Sullivan Street
Rochester, New York
DAY Representative: H. McLennan
Drilling Contractor: Nature's Way
Sampling Method: Split Spoon, Rotary Model 57-B

Test Boring MW-02

Ground Elevation: 493.60' Datum: NAVD 88
Date Started: 5/8/2019 Date Ended: 5/9/2019
Borehole Depth: 17.5' Borehole Diameter: 8"
Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): 9.63' (6/6/19)

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 12 14 5	S-1	0-2	75	26	5.8	0.0 0.0	Topsoil (FILL) Rusty Brown, Sandy Silt, some Ash, Rock, Coal fragments, dry (FILL)	
3	2 3 5 5	S-2	2-4	75	8	3.6	0.2 0.1 0.0 0.0	Brown/tan Mottled, Sandy Silt, some coarse Sand, trace Red Brick, trace Coal, moist (FILL)	
5	2 9 12 9	S-3	4-6	25	21	3.2	0.0 0.0	Dark Brown, Silty Sand, trace Coal and red Brick, moist (FILL) Tan, SAND, moist	
7	1 4 3 3	S-4	6-8	95	7	4.0	0.0 0.0	Medium Brown, Silty SAND, moist to wet	
9	17 37 50/2	S-5	8-10	75	NA	0.4	0.1 0.1	Medium Brown, Clayey SILT, moist	
11	24 32 20 50/2	S-6	10-12	20	61	7.0	0.5 0.1	Medium Brown/Gray, Clayey SILT, trace Gravel, fractured Rock	
12	50/3	S-7	12-12.3	NA	NA	NA	NA		
13 14 15 16	NA	C-1	12.3-17.6	100	30.2	NA		Gray, highly fractured DOLOMITE	HQ Core

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 MW-02

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Project #: 5582S-19
Project Address: 65 Sullivan Street
Rochester, New York
DAY Representative: H. McLennan
Drilling Contractor: Nature's Way
Sampling Method: Split Spoon, Rotary Model 57-B

Test Boring MW-02

Ground Elevation: 493.60' Datum: NAVD 88
Date Started: 5/8/2019 Date Ended: 5/9/2019
Borehole Depth: 17.5' Borehole Diameter: 8"
Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): 9.63' (6/6/19)

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									HQ Core
18								Terminated @ 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 MW-02

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Project #: 5582S-19
Project Address: 65 Sullivan Street
Rochester, New York
DAY Representative: A. Zobel Martino
Drilling Contractor: Nature's Way
Sampling Method: Split Spoon, Rotary Model 57-B

Test Boring MW-03

Ground Elevation: 493.76' Datum: NAVD88
Date Started: 5/13/2019 Date Ended: 5/14/2019
Borehole Depth: 17.2' Borehole Diameter: 8"
Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): 11.63' (6/6/19)

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	2	S-1	0-2	75	18	0.3	0.1	Topsoil, Sandy Silt with trace Clay, moist (FILL)	
	7						0.0		
	11						0.0	...fractured Brick and Cinders (FILL)	
2	11								
3	16	S-2	2-4	33	24	0.9	0.0	Fractured Concrete and Brick, moist (FILL)	
	12								
4	12								
	5								
5	5	S-3	4-6	63	16	2.4	0.2	Medium Brown, Silty Clay with trace Brick fragments, wet (FILL)	Petroleum-type odor
	7						0.1		
	9						0.0		
6	4								
7	6	S-4	6-8	21	27	1.7	0.0	Gray/Medium Brown, Silty Sand with Gravel, Concrete, moist (FILL)	
	8								
	19								
8	8								
9	3	S-5	8-10	75	54	0.6	0.0	Medium Brown, Silty CLAY with trace Gravel, moist	
	25						0.0	Gray, fractured ROCK and Clayey SILT, moist	
	29						0.1		
10	40						0.2		
11	14	S-6	10-12	67	52	0.3	0.2	Light Brown/Gray, SAND and SILT, some Gravel and fractured Rock, very moist	
	25						0.1		
	27						0.1		
12	50/2						0.0		
13	NA	C-1	12-17.2	99	69.8	NA		Gray, DOLOMITE, some horizontal and angular fractures	HQ Core
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 MW-03

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Project #: 5582S-19
Project Address: 65 Sullivan Street
Rochester, New York
DAY Representative: A. Zobel Martino
Drilling Contractor: Nature's Way
Sampling Method: Split Spoon, Rotary Model 57-B

Test Boring MW-03

Ground Elevation: 493.76' Datum: NAVD 88
Date Started: 5/13/2019 Date Ended: 5/14/2019
Borehole Depth: 17.2' Borehole Diameter: 8"
Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): 11.63' (6/6/19)

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									HQ Core
18								Terminated @ 17.2'	
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 MW-03

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Project #: 5582S-19
Project Address: 65 Sullivan Street
Rochester, New York
DAY Representative: J. Danzinger
Drilling Contractor: Nature's Way
Sampling Method: Split Spoon, Rotary Model 57-B

Test Boring MW-04

Ground Elevation: 494.72' Datum: NAVD88
Date Started: 5/9/2019 Date Ended: 5/10/2019
Borehole Depth: 18.2 Borehole Diameter: 8"
Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): 12.15' (6/6/19)

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	4 24 5 4	S-1	0-2	15	29	4.9	0.2	Brown, Silt (Topsoil), little Sand, trace Gravel and Brick (FILL) Concrete	
2	2 2	S-2	2-4	80	8	7.9	0.2 0.6	Light Brown, Silty fine Sand, moist (FILL)	
3	6 6						0.4 0.0		
4	12 10	S-3	4-6	2	18	4.3	NA	...piece of concrete in end of spoon (FILL)	
5	8 8								
6	3 3	S-4	6-8	90	6	12.0	0.3 0.1	Brown, Silt, fine SAND, moist	
7	3 3						0.0 0.0		
8	7 11	S-5	8-10	85	19	6.4	0.0 0.1	...little Gravel, moist Brown, SILT, some fine Sand and Clay, moist	
9	8 10						0.0 0.2		
10	5 18	S-6	10-12	80	43	3.9	0.0 0.1	Gray/Brown, fine Sandy SILT, trace Clay, very moist	
11	25 27						0.3 0.5	...Fractured Shale, moist	
12	13 26	S-7	12-14	70	66	2.7	0.0 0.1	Gray/Brown, fine to medium SAND, little Silt and Gravel, wet	
13	40 16						0.2 0.2	...little fractured dark gray SHALE, wet	
14	50/3	S-8	14-14.2	40	NA	1.4	NA		
15	NA	C-1	14.2-18.2	60.4	NA	1.9		Gray, DOLOMITE, some fractures	**HQ Core** **Oil sheen with slight Petroleum-type odor on rock core**
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 MW-04

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Project #: 5582S-19
Project Address: 65 Sullivan Street
Rochester, New York
DAY Representative: J. Danzinger
Drilling Contractor: Nature's Way
Sampling Method: Split Spoon, Rotary Model 57-B

Test Boring MW-04

Ground Elevation: 494.72' Datum: NAVD88
Date Started: 5/9/2019 Date Ended: 5/10/2019
Borehole Depth: 18.2 Borehole Diameter: 8"
Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): 12.15' (6/6/19)

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								Occasional Vugs throughout (~ 5 per ft)	HQ Core
18								Terminated @ 18.2'	
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 MW-04

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Drilling Contractor: Nature's Way
Sampling Method: Split Spoon, Rotary Model 57-B

Test Boring MW-05

Ground Elevation: 494.22' Datum: NAVD88
Date Started: 5/14/2019 Date Ended: 5/14/2019
Borehole Depth: 18.1' Borehole Diameter: 8"
Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): 12.03' (6/6/19)

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	S-1	0-2	75	28	0.6	0.2	Brown, Topsoil, Silty Sand, little Gravel (FILL)	
	9						0.5		
	19						0.0		
2	16						0.0	Brown, Silt, little Sand and Brick, Glass, moist (FILL)	
	9	S-2	2-4	45	74	0.4	0.0		
3	32						0.1		
	42						0.0	Red/Brown, Gray, Brick, Glass and Concrete. Little Sand and Silt, dry (FILL)	
4	20						0.0		
	17	S-3	4-6	50	38	0.3	0.0	Black, Sand, some Silt and Cinders, little Brick, Gravel, trace Slag, Ash, moist (FILL)	
5	20						0.0		
	18						0.0		
6	9						0.1		
	10	S-4	6-8	40	53	0.3	0.0		
7	40						0.0	Gray, Concrete, moist (FILL)	
	13								
8	10								
	5	S-5	8-10	40	41	0.9	0.0	Brown, SILT, little fine Sand, Shale fragments, moist	
9	19						0.1		
	22						0.2		
10	19								
	5	S-6	10-12	75	31	0.3	0.0	...very moist	
11	15						0.0		
	16						0.0		
12	23						0.0		
	16	S-7	12-13.1	65	NA	1.3	0.0	Grayish Brown, Silty Clay, trace Gravel, very moist	
13	13						0.0		
	50/1						0.0	Fractured SHALE and/or DOLOMITE	
14									
	NA	C-1	14.3-18.3	97	58.3	NA		Gray, DOLOMITE, some weathered zones, horizontal and vertical and angled	
15								fractures, trace vugs	HQ Core
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 MW-05

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Project #: 5582S-19
Project Address: 65 Sullivan Street
Rochester, New York
DAY Representative: J. Danzinger
Drilling Contractor: Nature's Way
Sampling Method: Split Spoon, Rotary Model 57-B

Test Boring MW-05

Ground Elevation: 494.22' Datum: NAVD88
Date Started: 5/14/2019 Date Ended: 5/14/2019
Borehole Depth: 18.1' Borehole Diameter: 8"
Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): 12.03' (6/6/19)

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									HQ Core
18								Terminated @ 18.1'	
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 MW-05

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DAY Representative: J. Danzinger
Drilling Contractor: Nature's Way
Sampling Method: Split Spoon, Rotary Model 57-B

Test Boring SV-01

Ground Elevation: NA Datum: NA
Date Started: 5/15/2019 Date Ended: 5/15/2019
Borehole Depth: 8.0' Borehole Diameter: 2"
Completion Method: ■ SV Point Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): 7.5' (5/15/19)

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	13						0.0	Asphalt	
	7	S-1	0-2	58	11	1.1	0.1	Medium Brown, Silty Sand with Gravel (FILL)	
	4						0.0		
2	3						0.0	Medium Brown, Silty Clay, moist (FILL)	
	5						0.1		
3	6	S-2	2-4	48	15	0.2	0.0		
	9						0.0	Medium Brown, Sand and Gravel, moist (FILL)	
4	11						0.0		
	12						0.1	Tan, Sandy Silt with Concrete, moist (FILL)	
5	7	S-3	4-6	54	13	4.0	0.0		
	6						0.0		
6	8						0.0		
	7						0.0	Dark Brown, Sandy SILT, very moist	
7	6	S-4	6-8	75	13	2.4	0.1		
	7						0.1		
8	26						0.1		
9								Terminated at 8.0'	
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 SV-01

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ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

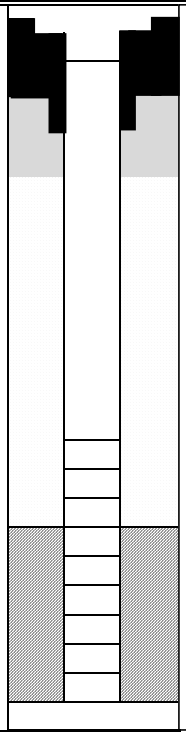
MONITORING WELL CONSTRUCTION DIAGRAM

Project #: 5582S-19
Project Address: 65 Sullivan Street
Rochester, New York
DAY Representative: H. McLennan
Drilling Contractor: Nature's Way

MONITORING WELL MW-01

Ground Elevation: 493.06' Datum: NAVD88
Date Started: 5/10/2019 Date Ended: 5/10/2019
Water Level (Date): SWL = 9.69' (6/6/2019)

Refer to Test Boring Log MW-01 for Soil Description



← Flush Mounted Roadbox
Depth to top of PVC Casing (ft)

1.0 Depth to Top of Bentonite Seal (ft)

4.5 Depth to Bottom of Bentonite Seal/Top of Sand (ft)

Backfill Type Sand

8 Diameter of Borehole to Top of Bedrock (in)

2 Diameter of Casing (in)

Type of Pipe Schedule 40 PVC

Screen Slot Size 10 Slot

5.5 Depth to Top of Screen (ft)

10.3 Depth to top of Bedrock (ft)

3.875 Diameter of Rock Core (In)

15.5 Depth to Bottom of Sand and Bottom of Screen (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-01

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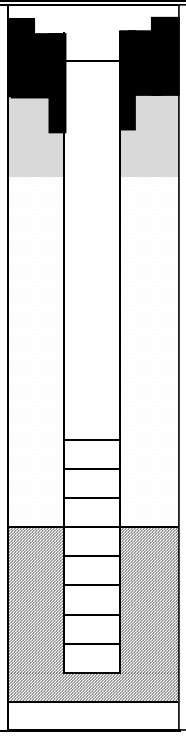
MONITORING WELL CONSTRUCTION DIAGRAM

Project #: 5582S-19
Project Address: 65 Sullivan Street
Rochester, New York
DAY Representative: H. McLennan
Drilling Contractor: Nature's Way

MONITORING WELL MW-02

Ground Elevation: 493.60' Datum: NAVD88
Date Started: 5/8/2019 Date Ended: 5/9/2019
Water Level (Date): SWL +9.63' (6/6/2019)

Refer to Test Boring Log MW-02 for Soil Description



← Flush Mounted Roadbox
Depth to top of PVC Casing (ft)

2.0 Depth to Top of Bentonite Seal (ft)

5.0 Depth to Bottom of Bentonite Seal/Top of Sand (ft)

Backfill Type Sand

8 Diameter of Borehole to Top of Bedrock (in)

2 Diameter of Casing (in)

Type of Pipe Schedule 40 PVC

Screen Slot Size 10 Slot

6.0 Depth to Top of Screen (ft)

12.3 Depth to top of Bedrock (ft)

3.875 Diameter of Rock Core (In)

16.0 Depth to Bottom of Screen (ft)

17.5 Depth to Bottom of Sand (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-02

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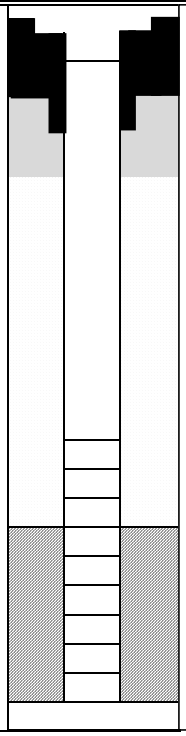
MONITORING WELL CONSTRUCTION DIAGRAM

Project #: 5582S-19
Project Address: 65 Sullivan Street
Rochester, New York
DAY Representative: J. Danzinger
Drilling Contractor: Nature's Way

MONITORING WELL MW-03

Ground Elevation: 493.76' Datum: NAVD88
Date Started: 5/13/2019 Date Ended: 5/14/2019
Water Level (Date): SWL = 11.63' (6/6/2019)

Refer to Test Boring Log MW-03 for Soil Description



← Flush Mounted Roadbox
____ Depth to top of PVC Casing (ft)

3.2 Depth to Top of Bentonite Seal (ft)

5.2 Depth to Bottom of Bentonite Seal/Top of Sand (ft)

Backfill Type Sand

8 Diameter of Borehole to Top of Bedrock (in)

2 Diameter of Casing (in)

Type of Pipe Schedule 40 PVC

Screen Slot Size 10 Slot

7.2 Depth to Top of Screen (ft)

12.0 Depth to top of Bedrock (ft)

3.875 Diameter of Rock Core (In)

17.2 Depth to Bottom of Sand and Bottom of Screen (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-03

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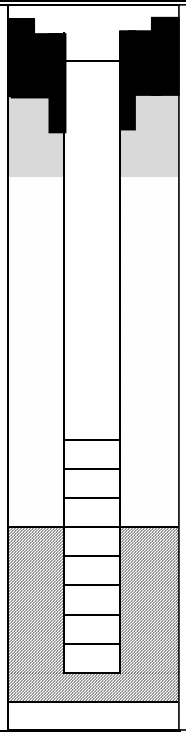
MONITORING WELL CONSTRUCTION DIAGRAM

Project #: 5582S-19
Project Address: 65 Sullivan Street
Rochester, New York
DAY Representative: J. Danzinger
Drilling Contractor: Nature's Way

MONITORING WELL MW-04

Ground Elevation: 494.72' Datum: NAVD88
Date Started: 5/9/2019 Date Ended: 5/10/2019
Water Level (Date): SWL = 12.15' (6/6/2019)

Refer to Test Boring Log MW-04 for Soil Description



← Flush Mounted Roadbox
Depth to top of PVC Casing (ft)

2.7 Depth to Top of Bentonite Seal (ft)

5.7 Depth to Bottom of Bentonite Seal/Top of Sand (ft)

Backfill Type Sand

8 Diameter of Borehole to Top of Bedrock (in)

2 Diameter of Casing (in)

Type of Pipe Schedule 40 PVC

Screen Slot Size 10 Slot

7.7 Depth to Top of Screen (ft)

14.2 Depth to top of Bedrock (ft)

3.875 Diameter of Rock Core (In)

17.7 Depth to Bottom of Screen (ft)

18.2 Depth to Bottom of Sand (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-04

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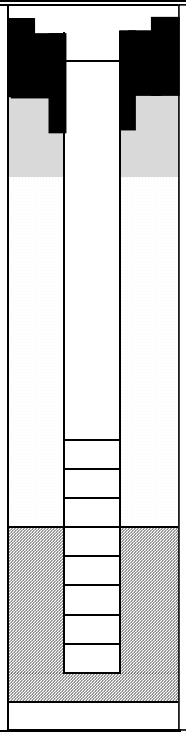
MONITORING WELL CONSTRUCTION DIAGRAM

Project #: 5582S-19
Project Address: 65 Sullivan Street
Rochester, New York
DAY Representative: J. Danzinger
Drilling Contractor: Nature's Way

MONITORING WELL MW-05

Ground Elevation: 494.22' Datum: NAVD88
Date Started: 5/14/2019 Date Ended: 5/14/2019
Water Level (Date): SWL = 12.03' (6/6/2019)

Refer to Test Boring Log MW-05 for Soil Description



← Flush Mounted Roadbox
Depth to top of PVC Casing (ft)

3 Depth to Top of Bentonite Seal (ft)

6 Depth to Bottom of Bentonite Seal/Top of Sand (ft)

Backfill Type Sand

8 Diameter of Borehole to Top of Bedrock (in)

2 Diameter of Casing (in)

Type of Pipe Schedule 40 PVC

Screen Slot Size 10 Slot

8.1 Depth to Top of Screen (ft)

14.3 Depth to top of Bedrock (ft)

3.875 Diameter of Rock Core (In)

18.1 Depth to Bottom of Sand and Bottom of Screen (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-05

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WELL DEVELOPMENT DATA
MW- 01

SITE LOCATION: 65 Sullivan Street, Rochester, New York JOB#: 5582S-19

DATE/ TIME	5/17/2019 9:08	5/17/2019 9:12	5/17/2019 9:15	5/17/2019 9:20	5/17/2019 9:23	5/17/2019 9:25	5/17/2019 9:28	5/17/2019 9:30
EVACUATION METHOD	Gas Pump	Gas Pump	Gas Pump	Gas Pump	Gas Pump	Gas Pump	Gas Pump	Gas Pump
PID/FID (PPM)	5.3	NC	NC	NC	NC	NC	NC	NC
DEPTH OF WELL (FT)	14.94	NC	NC	NC	NC	NC	NC	14.94
STATIC WATER LEVEL (SWL) FT	9.00	NC	NC	NC	NC	NC	NC	9.16
VOLUME EVACUATED (GAL)	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5
TOTAL VOLUME EVACUATED (GAL)	1.0	2.0	3.0	4.0	4.5	5.0	5.5	6.0
TEMPERATURE (^{O}C)	14.7	14.7	15.7	16.8	16.8	17.0	16.7	17.0
pH	8.22	7.26	8.14	8.19	8.20	8.17	8.16	8.16
ORP (mV)	124.2	128.7	130.1	131.7	131.1	132.0	134.2	133.5
CONDUCTIVITY (ms/cm)	1.080	0.889	0.864	0.859	0.857	0.855	0.856	0.856
TURBIDITY (NTU)	550.68	1628.18	3579.45	3883.69	3005.90	2200.01	1560.38	996.14
VISUAL OBSERVATION	Brown/ Turbid	Brown/ Turbid	Brown/ Turbid	Brown/ Turbid	Brown/ Turbid	Brown/ Turbid	Cloudy	Cloudy

LEGEND: NC = Not Collected

Day Environmental, Inc.
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WELL DEVELOPMENT DATA
MW- 02

SITE LOCATION: 65 Sullivan Street, Rochester, New York JOB#: 5582S-19

DATE/ TIME	5/17/2019 10:53	5/17/2019 10:55	5/17/2019 10:56	5/17/2019 10:59	5/17/2019 11:00	5/17/2019 11:02	5/17/2019 11:05	5/17/2019 11:07	5/17/2019 11:08	5/17/2019 11:09
EVACUATION METHOD	Gas Pump	Gas Pump	Gas Pump	Gas Pump	Gas Pump	Gas Pump	Gas Pump	Gas Pump	Gas Pump	Gas Pump
PID/FID (PPM)	9.4	NC	NC	NC	NC	NC	NC	NC	NC	NC
DEPTH OF WELL (FT)	15.62	NC	NC	NC	NC	NC	NC	NC	NC	15.63
STATIC WATER LEVEL (SWL) FT	8.90	NC	NC	NC	NC	NC	NC	NC	NC	9.40
VOLUME EVACUATED (GAL)	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5
TOTAL VOLUME EVACUATED (GAL)	1.0	2.0	3.0	4.0	5.0	5.5	6.0	6.5	7.0	7.5
TEMPERATURE (^{O}C)	13.8	13.4	14.6	13.1	12.0	13.0	12.5	12.0	12.7	12.4
pH	7.39	7.55	7.60	7.52	7.49	7.47	7.44	7.37	7.28	7.31
ORP (mV)	137.7	144.5	139.6	134.5	127.0	115.0	80.3	30.5	3.9	-3.5
CONDUCTIVITY (ms/cm)	1.145	1.120	1.076	1.089	1.115	1.115	1.079	1.054	1.066	1.052
TURBIDITY (NTU)	4788.42	2580.70	2791.26	3343.20	4139.33	4646.31	3420.30	1452.53	1543.81	1056.82
VISUAL OBSERVATION	Brown/ Turbid	Brown/ Turbid	Brown/ Turbid	Brown/ Turbid	Brown/ Turbid	Brown/ Turbid	Brown/ Turbid	Cloudy	Cloudy	Cloudy

LEGEND: NC = Not Collected

Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606

WELL DEVELOPMENT DATA
MW- 03

SITE LOCATION: 65 Sullivan Street, Rochester, New York JOB#: 5582S-19

DATE/ TIME	5/17/2019 9:23	5/17/2019 9:40	5/17/2019 9:43	5/17/2019 9:45	5/17/2019 9:46	5/17/2019 9:47		
EVACUATION METHOD	Gas Pump	Gas Pump	Gas Pump	Gas Pump	Gas Pump	Gas Pump		
PID/FID (PPM)	11.0	NC	NC	NC	NC	NC		
DEPTH OF WELL (FT)	16.80	NC	NC	NC	NC	16.76		
STATIC WATER LEVEL (SWL) FT	11.40	NC	NC	NC	NC	11.49		
VOLUME EVACUATED (GAL)	2.5	0.5	0.5	1.0	0.5	0.5		
TOTAL VOLUME EVACUATED (GAL)	2.5	3.0	3.5	4.5	5.0	5.5		
TEMPERATURE (^{O}C)	16.3	17.0	14.8	16.1	17.3	16.0		
pH	7.78	7.65	7.43	7.49	7.63	7.41		
ORP (mV)	143.8	155.8	157.7	157.3	155.2	159.9		
CONDUCTIVITY (ms/cm)	1.093	0.622	1.337	1.355	1.359	1.365		
TURBIDITY (NTU)	299.85	4333.02	3066.12	1400.79	1128.31	445.62		
VISUAL OBSERVATION	Brown/ Turbid	Brown/ Turbid	Brown/ Turbid	Cloudy	Cloudy	Cloudy		

LEGEND: NC = Not Collected

Day Environmental, Inc.
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WELL DEVELOPMENT DATA
MW- 04

SITE LOCATION: 65 Sullivan Street, Rochester, New York JOB#: 5582S-19

DATE/ TIME	5/17/2019 11:30	5/17/2019 11:44	5/17/2019 11:50	5/17/2019 11:53*	5/17/2019 12:12	5/17/2019 12:14	5/17/2019 12:16	5/17/2019 12:18
EVACUATION METHOD	Gas Pump	Gas Pump	Gas Pump	Gas Pump	Gas Pump	Gas Pump	Gas Pump	Gas Pump
PID/FID (PPM)	8.0	NC	NC	NC	NC	NC	NC	NC
DEPTH OF WELL (FT)	17.28	NC	NC	NC	NC	NC	NC	17.25
STATIC WATER LEVEL (SWL) FT	11.78	NC	NC	NC	NC	NC	NC	12.69
VOLUME EVACUATED (GAL)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.75
TOTAL VOLUME EVACUATED (GAL)	1.0	2.0	3.0	4.0	5.0	6.0	7.0	7.75
TEMPERATURE (^{O}C)	13.6	14.9	15.4	13.5	16.9	12.8	13.1	13.1
pH	7.61	7.35	7.40	7.33	7.38	7.40	7.46	7.20
ORP (mV)	114.2	141.0	126.8	81.8	101.7	77.1	66.3	-1.8
CONDUCTIVITY (ms/cm)	1.656	1.457	1.297	1.205	1.032	1.200	1.194	1.155
TURBIDITY (NTU)	1275.06	1119.55	2233.65	4483.56	4337.97	4168.18	3864.93	1541.74
VISUAL OBSERVATION	Brown/ Turbid/Sheen	Brown/ Turbid/Sheen	Brown/ Turbid/Sheen	Brown/ Turbid/Sheen	Brown/ Turbid/Sheen	Brown/ Turbid/Sheen	Brown/ Turbid/Sheen	Cloudy/Sheen

LEGEND: NC = Not Collected
* = Went dry, turned off gas pump afterwards to let the well recover

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WELL DEVELOPMENT DATA
MW- 05

SITE LOCATION: 65 Sullivan Street, Rochester, New York JOB#: 5582S-19

DATE/ TIME	5/17/2019 12.48	5/17/2019 12:50	5/17/2019 12:52	5/17/2019 12:53	5/17/2019 12:55	5/17/2019 12:57	5/17/2019 12:58	
EVACUATION METHOD	Gas Pump	Gas Pump	Gas Pump	Gas Pump	Gas Pump	Gas Pump	Gas Pump	
PID/FID (PPM)	7.2	NC	NC	NC	NC	NC	NC	
DEPTH OF WELL (FT)	17.68	NC	NC	NC	NC	NC	17.69	
STATIC WATER LEVEL (SWL) FT	11.86	NC	NC	NC	NC	NC	12.01	
VOLUME EVACUATED (GAL)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
TOTAL VOLUME EVACUATED (GAL)	1.0	2.0	3.0	4.0	5.0	6.0	7.0	
TEMPERATURE (^{O}C)	13.2	12.2	13.8	12.0	12.7	11.4	12.2	
pH	7.58	7.55	7.57	7.45	7.36	7.33	7.28	
ORP (mV)	76.7	51.8	61.9	62.1	70.7	73.8	80.2	
CONDUCTIVITY (ms/cm)	1.163	1.157	1.291	1.433	1.470	1.490	1.474	
TURBIDITY (NTU)	866.73	606.79	1096.82	3797.45	3715.06	1480.78	1819.13	
VISUAL OBSERVATION	Brown/ Turbid	Brown/ Turbid	Brown/ Turbid	Brown/ Turbid	Brown/ Turbid	Cloudy	Cloudy	

LEGEND: NC = Not Collected

Day Environmental, Inc.
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Rochester, New York 14606

DAY ENVIRONMENTAL, INC.
MONITORING WELL SAMPLING LOG

WELL MW-01

SECTION 1 - SITE INFORMATION

SITE LOCATION: 65 Sullivan Street **JOB #:** 5582S-19

Rochester, New York **DATE :** 6/6/2019

SAMPLE COLLECTOR(S): H. Miller, A. Zobel Martino

WEATHER CONDITIONS: 65°F, Partly Cloudy **PID IN WELL (PPM)**: 118.9 **LNAPL** ND **DNAPL** ND

SECTION 2 - PURGE INFORMATION

DEPTH OF WELL [FT]: 14.91 (MEASURED FROM TOP OF CASING - T.O.C.)

STATIC WATER LEVEL (SWL) [FT]: 9.69 (MEASURED FROM T.O.C.)

T.O.C. TO GROUND SURFACE [FT]: 0.44

THICKNESS OF WATER COLUMN [FT]: 5.22 (DEPTH OF WELL - SWL)

CALCULATED VOL. OF H_2O PER WELL CASING [GAL]: 0.85 **CASING DIA.:** 2 inch

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]: 2.55 (3 TIMES CASING VOLUME)

ACTUAL VOLUME PURGED [GAL]: 3.0

PURGE METHOD: Gas Pump **PURGE START:** 10:25 **END:** 10:35

SECTION 3 - SAMPLE IDENTIFICATION AND TEST PARAMETERS

SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-01	6-6-2019 / 11:45	Bailer	TCL and STARS/CP-51 8260 VOCs

SECTION 4 - WATER QUALITY DATA

SWL (FT)	TEMP (°C)	pH	CONDUCTIVITY (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	ORP (mV)	VISUAL
9.82	14.71	7.53	0.702	177	2.62	160	Clear, Yellow hue

N/M = Not Measured
ND = Not Detected

DAY ENVIRONMENTAL, INC.
MONITORING WELL SAMPLING LOG

WELL MW-02

SECTION 1 - SITE INFORMATION

SITE LOCATION: 65 Sullivan Street **JOB #:** 5582S-19

Rochester, New York **DATE :** 6/6/2019

SAMPLE COLLECTOR(S): H. Miller, A. Zobel Martino

WEATHER CONDITIONS: 65°F, Partly Cloudy **PID IN WELL (PPM)**: 333.9 **LNAPL** ND **DNAPL** ND

SECTION 2 - PURGE INFORMATION

DEPTH OF WELL [FT]: 15.63 (MEASURED FROM TOP OF CASING - T.O.C.)

STATIC WATER LEVEL (SWL) [FT]: 9.63 (MEASURED FROM T.O.C.)

T.O.C. TO GROUND SURFACE [FT]: 0.54

THICKNESS OF WATER COLUMN [FT]: 6.00 (DEPTH OF WELL - SWL)

CALCULATED VOL. OF H_2O PER WELL CASING [GAL]: 0.98 **CASING DIA.:** 2 inch

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]: 2.94 (3 TIMES CASING VOLUME)

ACTUAL VOLUME PURGED [GAL]: 3.5

PURGE METHOD: Gas Pump **PURGE START:** 10:45 **END:** 10:55

SECTION 3 - SAMPLE IDENTIFICATION AND TEST PARAMETERS

SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-02	6-6-2019 / 12:03	Bailer	TCL and STARS/CP-51 8260 VOCs

SECTION 4 - WATER QUALITY DATA

SWL (FT)	TEMP (°C)	pH	CONDUCTIVITY (mS/cm)	TURBIDITY (NTU)	DO (g/L)	ORP (mV)	VISUAL
9.60	12.14	7.34	0.784	> cal. range	0.501	74	Brown, Turbid

N/M = Not Measured
ND = Not Detected

DAY ENVIRONMENTAL, INC.
MONITORING WELL SAMPLING LOG

WELL MW-03

SECTION 1 - SITE INFORMATION

SITE LOCATION: 65 Sullivan Street **JOB #:** 5582S-19

Rochester, New York **DATE :** 6/6/2019

SAMPLE COLLECTOR(S): H. Miller, A. Zobel Martino

WEATHER CONDITIONS: 65°F, Partly Cloudy **PID IN WELL (PPM)**: 367.0 **LNAPL** ND **DNAPL** ND

SECTION 2 - PURGE INFORMATION

DEPTH OF WELL [FT]: 16.75 (MEASURED FROM TOP OF CASING - T.O.C.)

STATIC WATER LEVEL (SWL) [FT]: 11.63 (MEASURED FROM T.O.C.)

T.O.C. TO GROUND SURFACE [FT]: 0.25

THICKNESS OF WATER COLUMN [FT]: 5.12 (DEPTH OF WELL - SWL)

CALCULATED VOL. OF H_2O PER WELL CASING [GAL]: 0.84 **CASING DIA.:** 2 inch

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]: 2.52 (3 TIMES CASING VOLUME)

ACTUAL VOLUME PURGED [GAL]: 3.5

PURGE METHOD: Gas Pump **PURGE START:** 11:27 **END:** 11:32

SECTION 3 - SAMPLE IDENTIFICATION AND TEST PARAMETERS

SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-03	6-6-2019 / 13:05	Bailer	TCL and STARS/CP-51 8260 VOCs

SECTION 4 - WATER QUALITY DATA

SWL (FT)	TEMP (°C)	pH	CONDUCTIVITY (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	ORP (mV)	VISUAL
11.65	13.51	7.67	0.972	551	2.43	89	Clear

N/M = Not Measured
ND = Not Detected

DAY ENVIRONMENTAL, INC.
MONITORING WELL SAMPLING LOG

WELL MW-04

SECTION 1 - SITE INFORMATION

SITE LOCATION: 65 Sullivan Street **JOB #:** 5582S-19

Rochester, New York **DATE :** 6/6/2019

SAMPLE COLLECTOR(S): H. Miller, A. Zobel Martino

WEATHER CONDITIONS: 65°F, Partly Cloudy **PID IN WELL (PPM)**: 198.2 **LNAPL** ND **DNAPL** ND

SECTION 2 - PURGE INFORMATION

DEPTH OF WELL [FT]: 17.24 (MEASURED FROM TOP OF CASING - T.O.C.)

STATIC WATER LEVEL (SWL) [FT]: 12.15 (MEASURED FROM T.O.C.)

T.O.C. TO GROUND SURFACE [FT]: 0.34

THICKNESS OF WATER COLUMN [FT]: 5.09 (DEPTH OF WELL - SWL)

CALCULATED VOL. OF H_2O PER WELL CASING [GAL]: 0.83 **CASING DIA.:** 2 inch

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]: 2.49 (3 TIMES CASING VOLUME)

ACTUAL VOLUME PURGED [GAL]: 3.0

PURGE METHOD: Gas Pump **PURGE START:** 11:05 **END:** 11:10

SECTION 3 - SAMPLE IDENTIFICATION AND TEST PARAMETERS

SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-04	6-6-2019 / 12:25	Bailer	TCL and STARS/CP-51 8260 VOCs

SECTION 4 - WATER QUALITY DATA

SWL (FT)	TEMP (°C)	pH	CONDUCTIVITY (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	ORP (mV)	VISUAL
12.15	12.09	7.38	0.798	615	6.13	78	Clear, Rainbow Sheen, Petro-type odor

N/M = Not Measured
ND = Not Detected

DAY ENVIRONMENTAL, INC.
MONITORING WELL SAMPLING LOG

WELL MW-05

SECTION 1 - SITE INFORMATION

SITE LOCATION: 65 Sullivan Street **JOB #:** 5582S-19

Rochester, New York **DATE :** 6/6/2019

SAMPLE COLLECTOR(S): H. Miller, A. Zobel Martino

WEATHER CONDITIONS: 65°F, Partly Cloudy **PID IN WELL (PPM)**: 20.2 **LNAPL** ND **DNAPL** ND

SECTION 2 - PURGE INFORMATION

DEPTH OF WELL [FT]: 17.67 (MEASURED FROM TOP OF CASING - T.O.C.)

STATIC WATER LEVEL (SWL) [FT]: 12.03 (MEASURED FROM T.O.C.)

T.O.C. TO GROUND SURFACE [FT]: 0.27

THICKNESS OF WATER COLUMN [FT]: 5.64 (DEPTH OF WELL - SWL)

CALCULATED VOL. OF H_2O PER WELL CASING [GAL]: 0.92 **CASING DIA.:** 2 inch

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]: 2.76 (3 TIMES CASING VOLUME)

ACTUAL VOLUME PURGED [GAL]: 3.5

PURGE METHOD: Gas Pump **PURGE START:** 11:05 **END:** 11:18

SECTION 3 - SAMPLE IDENTIFICATION AND TEST PARAMETERS

SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-05	6-6-2019 / 12:45	Bailer	TCL and STARS/CP-51 8260 VOCs

SECTION 4 - WATER QUALITY DATA

SWL (FT)	TEMP (°C)	pH	CONDUCTIVITY (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	ORP (mV)	VISUAL
12.05	12.59	7.44	0.976	573	3.92	82	Brown, Turbid

N/M = Not Measured
ND = Not Detected

day

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

SOIL VAPOR PROBE CONSTRUCTION DIAGRAM

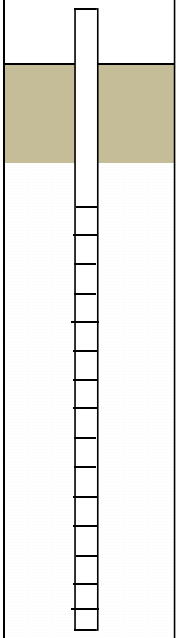
Project #: 5582S-19
Project Address: 65 Sullivan Street
Rochester, New York
DAY Representative: A. Zobel Martino
Drilling Contractor: Nature's Way

Soil Vapor Probe SV-01

Ground Elevation: NA Datum: NA
Date Started: 5/15/2019 Date Ended: 5/15/2019

Water Level (Date): wet soil at 7.5' (5/15/2019)

Refer to Test Boring Log SV-01 for Soil Description



0.0 Depth to Top of Bentonite Seal (ft)

3.0 Depth to Bottom of Bentonite Seal (ft)

5.5 Depth to Top of Screen (ft)

2 Diameter of Borehole (in)

Backfill Type Sand

0.25 Inside Diameter of probe (in)

Type of screen Stainless Steel

6.0 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 SV-01

S:\Fieldforms\Soil vapor probe Installation Log (revised June 2014)

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AN AFFILIATE OF DAY ENGINEERING, P.C.

Soil Vapor Sampling Log

Project #: 5582S-19

Project Address: 65 Sullivan Street
Rochester, New York

Sample Type: Soil Vapor

Date: 6/25/2019

DAY Representative: C. Demian
Canister #: SC01007
Slab Thickness: 3" Asphalt

Sample Location: SV-01
Regulator #: FCA00674
Probe Depth: 6.0 feet
Purge Time: 2 minutes

Sample Designation: SV-01
Start: 1321
Backfill Material: Sand
Purge Method: plastic syringe

Test Duration: 2 hours, 9 minutes
End: 1530
Surface Seal: Bentonite

Helium Tracer Testing

Chamber Type / Volume: 2 liter plastic
Surface Seal: Bentonite

He Concentration Inside Chamber: 60.80%
He Measurement from Vapor Point: 0%

Vapor Sample Collection Data

Time	Vacuum Gage Reading (inches of Hg)	Background VOC Reading (ppb or ppm)	Notes
1321	-30	NA	Start
1340	-28	NA	
1358	-25	NA	
1417	-21.5	NA	
1445	-16.5	NA	
1506	-12	NA	
1520	-9.5	NA	
1530	-8	NA	Stop

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.
2) Not Applicable

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Soil Vapor Sampling Log

Project #: 5582S-19

Project Address: 65 Sullivan Street
Rochester, New York

Sample Type: Outdoor Air

Date: 6/25/2019

DAY Representative: C. Demian
Canister #: AC02232
Slab Thickness: NA

Sample Location: OA-01
Regulator #: FCA00024
Probe Depth: NA
Purge Time: NA

Sample Designation: OA-01
Start: 1323
Backfill Material: NA
Purge Method: NA

Test Duration: 2 hours, 7 minutes
End: 1530
Surface Seal: NA

Helium Tracer Testing

Chamber Type / Volume: NA
Surface Seal: NA

He Concentration Inside Chamber: NA
He Measurement from Vapor Point: NA

Vapor Sample Collection Data

Time	Vacuum Gage Reading (inches of Hg)	Background VOC Reading (ppb or ppm)	Notes
1323	-28.3	NA	Start
1341	-25	NA	
1358	-18.5	NA	
1417	-15.5	NA	
1445	-10.5	NA	
1506	-8	NA	
1520	-6	NA	
1530	-5	NA	Stop

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.
2) Not Applicable

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APPENDIX C

Investigation-Derived Waste Disposal Documentation

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYD000233601
2. Page 1 of: 1
3. Emergency Response Phone: 800-807-7456
4. Manifest Tracking Number: 008595649 JJK

GENERATOR

5. Generator's Name and Mailing Address
ELTREX INDUSTRIES
65 SULLIVAN STREET
ROCHESTER NY 14605
Generator's Phone:

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: SUN ENVIRONMENTAL CORP.
U.S. EPA ID Number: NYR000176958

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
CYCLE CHEM, INC.
650 INDUSTRIAL DR.
LEWISBERRY PA 17339
Facility's Phone: 717 938-4700
U.S. EPA ID Number: PAD067098822

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (If any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1 RQ UN1993, WASTE FLAMMABLE LIQUIDS, N.O.S.,3,PGII ERG#128	003	DM	01350	P	D040	F002	D043
	2 NON RCRA, NON DOT REGULATED MATERIAL	003	DM	01800	P	NONE		
	3.							
	4.							

14. Special Handling Instructions and Additional Information
JOB# DAVE.1020 SUN PO# R40576 SIGNED PROFILES AND LDR ATTACHED
1. 77712-WR3 (55 GAL)
2. 79319-LS (55 GAL)

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Jane M H Forbes
Signature:
Month: 7 Day: 11 Year: 19

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Darrell King
Signature:
Month: 7 Day: 17 Year: 19
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H141			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Gretchen Boyer
Signature:
Month: 7 Day: 19 Year: 19

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

TRANSPORTER'S COPY