REMEDIAL DESIGN INVESTIGATION – PHASE 2 FORMER UNDERGROUND STORAGE TANK AREA

BROWNFIELD CLEANUP PROGRAM NYSDEC SITE ID C828130 118 PETTEN STREET ROCHESTER, NEW YORK

Prepared For: Genesee Marina, Inc.

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Project No.: 5119R-15

Date: August 30, 2015

(Revised April 8, 2016)

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I David D. Day, P.E., certify that I am currently a NYS registered professional engineer as defined in 6 NYCRR Part 375 and that this Remedial Design Investigation was prepared in accordance with applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

David O Day, Mus

David D. Day, P.E.

President

Day Environmental, Inc.

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1.0 INTRODUCTION

The subject property (Site) is addressed as 118 Petten Street, in the City of Rochester, Monroe County, New York. The Site consists of approximately 25-acres, and is bounded to the north and south by land owned by the City of Rochester, to the east by the Genesee River, and to the west by a railroad spur. The location of the Site is shown on Figure 1 (Project Locus Map), and the approximate boundaries of the Site are shown on Figure 2 (Site Plan).

The Site consists of a commercial marina formerly known as the Riverview Yacht Basin and Genesee Marina, and is currently known as Gibbs Marina. The marina includes multiple buildings and more than 200 boat slips. There are two boat ramps along the river front. The Site also consists of asphalt and gravel roadways and parking areas, woods, and wetlands that are regulated federally and by the New York State Department of Environmental Conservation (NYSDEC).

The Site is zoned by the City of Rochester as Harbortown Village District (H-V). Recreational Use, commercial use, and residential use are permitted uses in the H-V zoning district.

This Remedial Design Investigation (RDI) was conducted under the NYSDEC Brownfield Cleanup Program (BCP) to locate and investigate three closed-in-place underground storage tanks (USTs) at the Site located in the vicinity of Building #6 (refer to Figure 3).

1.1 Background

A Remedial Action Work Plan – Phase 2 (RAWP) dated December 2012 was submitted to the NYSDEC. The NYSDEC provided a conditional approval letter on June 26, 2013. A representative of the BCP Applicant invoked dispute resolution on July 16, 2013. A meeting to discuss the informal dispute resolution issues was held on August 6, 2013. On September 19, 2013, the Department issued a letter proposing revisions to the Remedial Action Work Plan – Phase 2 and a settlement to the informal dispute resolution. The September 19, 2013 letter with the proposed revisions was accepted on October 18, 2013 by a representative of the BCP Applicant; thus, closing the informal dispute resolution process.

2.0 REMEDIAL DESIGN INVESTIGATION

This RDI was performed to search for three reportedly closed-in-place USTs and further evaluate/define the extent of any associated petroleum contamination. Additional goals of the RDI included obtaining data to assist in selecting and designing a remedial program for this area. The scope of the RDI that was completed is presented in this section of the report.

2.1 Test Pit Evaluation and Pipe Removal

On June 8, 2015, DAY representatives conducted a Site visit to confirm access to proposed test pit locations and completed an evaluation of the proposed test pit areas using a magnetic locator. Two magnetic anomalies were detected, each approximately 5 feet long, one directly north of existing monitoring well GM-MW16 and one directly south of existing monitoring well GM-MW16.

Between June 18, 2015 and June 22, 2015, a Code of Federal Regulation (CFR) 1910.120 Hazardous Waste Operation and Emergency Response (HAZWOPER)-trained Gibbs Marina representative excavated three test pits (designated TP1, TP2 and TP3) using a backhoe in accordance with Section 2.1.1 of the approved RAWP-Phase 2. The locations of these test pits are shown on Figure 3. A Day Environmental, Inc. (DAY) representative was on-site to observe the test pit work. Monitoring included visually observing soil samples for evidence of impact (e.g., staining, odors, etc.) as well as screening soil samples, and the headspace on portions of select samples, with a RAE Systems MiniRAE 2000 photoionization detector (PID) equipped with a 10.6 electron volt (eV) lamp for evidence of volatile organic compound (VOC) impact. Other portions of the soil samples were collected for possible laboratory analysis. Pertinent information for each test pit is provided on test pit logs included in Appendix A. Some of the information for each test pit is provided below.

Test Pit TP1: Two apparent concrete-filled USTs were identified in Test Pit TP1, located on the eastern exterior side of Building 6 near a foundation footer for the building. The USTs appeared to be approximately 5 feet (ft.) long and 4 ft. in diameter. The tops of the USTs were located approximately 4.5 ft. below ground surface (bgs). The fill ports of the USTs were accessible. The USTs were determined to be concrete-filled by visual inspection and attempting to insert a metal pole into the fill ports of the USTs. A large concrete slab was located to the north of the USTs. An approximate 3 inch diameter steel pipe that was connected to the tops of both USTs entered the south wall of the large concrete slab (i.e., the steel pipe was oriented in a north-south direction). Also, two smaller, loose concrete slabs (each approximately 3 ft. by 2 ft. by 0.8 ft. thick) were located approximately 0.5 ft. above the steel pipe. During the excavation of Test Pit TP1, groundwater monitoring well GM-MW16 was destroyed due to its proximity to the USTs. Evidence of apparent contamination was noted in Test Pit TP1. Specifically, elevated PID readings ranging between 0.0 parts per million (ppm) to 681 ppm, stained sand fill and apparent petroleum-type odors were encountered. The evidence of apparent contamination appeared to be greatest in the location of the USTs and large concrete slab. The maximum depth of Test Pit TP1 was 6 ft. bgs. The test pit was not extended to a depth of 8 ft. bgs, as stated in the RAWP, due to saturated soil/fill encountered at an approximate depth of 5 ft. bgs. In addition, the area of the concrete-filled USTs was not excavated to the invert of the tanks as stated in the RAWP due to the saturated soil/fill. Following completion of Test Pit TP1, the excavated material removed

from Test Pit TP1 was used to backfill Test Pit TP1. Material was placed back into the excavation in the same general strata from which it was removed. Fill material was not imported to the Site for use as backfill.

Test Pit TP2: Test Pit TP2 was located approximately 10 feet east of Test Pit TP1. Two steel pipes, each approximately 3 inches in diameter, were identified passing through Test Pit TP2. The pipes appeared to be in-line with the large concrete slab in Test Pit TP1 and were oriented in an east-west direction. Evidence of apparent contamination was noted in Test Pit TP2 (i.e., elevated PID readings ranging between 0.0 ppm to 53.5 ppm, stained soil, odors) but to a lesser degree than noted in Test Pit TP1. The maximum depth of Test Pit TP2 was approximately 5.2 ft. bgs due to the presence of saturated soil/fill at an approximate depth of 5 ft. bgs. Following completion of Test Pit TP2, the excavated material removed from Test Pit TP2 was used to backfill Test Pit TP2. Material was placed back into the excavation in the same general strata from which it was removed. Fill material was not imported to the Site for use as backfill.

Test Pit TP3: Test Pit TP3 was located inside Building 6, approximately 3 feet west of Test Pit TP1. No tanks or piping were encountered in Test Pit TP3. Staining was not observed in Test Pit TP3. A petroleum odor and elevated PID readings, ranging between 0.8 ppm to 9.7 ppm, were noted in Test Pit TP3 in the vicinity of the large concrete slab that was observed in Test Pit TP1. Two small concrete slabs were observed in TP3, each approximately 5 ft. by 3.5 ft. and 1 ft. thick. The northern concrete slab was removed from the excavation. The southern concrete slab did not appear to be attached to the building or piping underneath, but was left in-place due to its proximity to the building wall. The maximum depth of Test Pit TP3 was approximately 5 ft. bgs due to the presence of saturated soil/fill at an approximate depth of 5 ft. bgs. Following completion of Test Pit TP3, the excavated material removed from Test Pit TP3 was used to backfill Test Pit TP3. Material was placed back into the excavation in the same general strata from which it was removed. Fill material was not imported to the Site for use as backfill.

As shown on Table 1, one soil sample from each test pit was selected and subsequently submitted under chain-of-custody control to Paradigm Environmental Services, Inc. (Paradigm), which is a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certified analytical laboratory (ELAP #10958). Samples with the greatest field evidence of impact (e.g., elevated PID readings, staining, odors) were selected for laboratory testing. Paradigm analyzed the three soil samples for the following parameters:

- Target Compound List (TCL) Volatile Organic Compounds (VOCs) plus Tentatively Identified Compounds (TICs) using United States Environmental Protection Agency (USEPA) Method 8260;
- TCL Semi-Volatile Organic Compounds (SVOCs) plus TICs using USEPA Method 8270; and
- Lead using USEPA Method 6010.

On June 26, 2015, Mr. Charles M. Ekiert, P.E., Structural Engineer from Herrick-Sayler Engineers, P.C., and a representative from DAY, conducted a site visit to determine if the

removal of the USTs would structurally impact the building. In a discussion conducted with Mr. Ekiert, P.E., the structural engineer, Mr. Ekiert, stated that the structural integrity of the building would be compromised if the concrete-filled USTs were removed. A formal report was not provided by Herrick-Saylor Engineers, P.C. With concurrence from the NYSDEC, a decision was made to leave the concrete-filled USTs in place.

Pipe Removal: On July 13, 2015, representatives of TREC Environmental Inc. (TREC) were onsite to remove piping associated with the two concrete-filled USTs (refer to select photographs included in Appendix B). A DAY representative was on-site to observe the removal of the pipes. Approximately 80 feet of steel pipe was removed from the site by TREC. Two pipes, each approximately 3 inches in diameter, located approximately 1 foot apart and configured in an east-west direction were removed from an area to the east of the large concrete slab identified in Test Pit TP1 (refer to attached Figure 3). The north pipe was approximately 25 feet long and the south pipe was approximately 45 feet long. The north pipe was found to be capped on the eastern end. The south pipe was not capped. Evidence of product was not observed in either pipe. An elbow was observed on the eastern end of the north pipe, and a test pit (designated TP4) was excavated to the north of the elbow. No evidence of a third UST was detected in the test pit. However, a steel pipe was observed slightly above the ground surface to the east of the test pit, in an approximate north-south configuration. A peak PID reading in this pipe was measured at 1,000 ppm. This pipe was excavated and removed. It was found to be connected to a concrete slab that appeared to be part of an assumed former pump dispenser location. The concrete slab was shifted aside and the area beneath the concrete slab was excavated to a depth of approximately three feet bgs. Evidence of impacted soils (odor, staining, elevated PID readings ranging between 0.8 to 248 ppm) was observed below the elbow of the piping as well as in the area of the assumed former pump dispenser.

Following completion of pipe removal activities and excavation of Test Pit TP4, the excavated material removed from the area of the pipes and Test Pit TP4 was used as backfill. Material was placed back into the excavations in the same general strata from which it was removed. Fill material was not imported to the Site for use as backfill.

2.2 Test Boring/Temporary Monitoring Well Evaluation

On July 13, 2015 and July 14, 2015, representatives of TREC were on-site to advance eleven test borings (designated as TMW1 to TMW3, GM-MW-16A, TMW5 to TMW10, and TB11) to depths of approximately 12 feet bgs using truck-mounted direct-push Geoprobe equipment. A DAY representative documented the work, performed field screening, and collected samples for possible analytical laboratory testing. Pertinent information for each test boring is included on test boring logs included in Appendix A. As shown on Table 1, at least one soil/fill sample from test borings TMW1 to TMW3, GM-MW-16A, TMW5 to TMW10, as well as one soil/fill sample from beneath the location of the pipe elbow (designated TP4), were selected for laboratory analysis of TCL VOCs and TICs using USEPA Method 8260 and TCL SVOCs and TICs using USEPA Method 8270. Following concurrence from the NYSDEC, approximately half of those soil samples were also tested for Lead using USEPA Method 6010.

On July 13, 2015 and July 14, 2015, nine temporary groundwater monitoring wells (designated as TMW1 to TMW3, and TMW5 through TMW10) and one permanent groundwater monitoring well (designated as GM-MW-16A) were installed in the corresponding test borings. The groundwater monitoring wells were constructed of one-inch inner diameter Schedule 40 polyvinyl chloride (PVC) with a ten-foot long 10-slot screen attached to solid riser. The well screens were placed from about 2 feet and 12 feet below the existing ground surface. The annulus around, and about one foot above, each screen was backfilled with a sand pack. A 1-foot thick bentonite seal was placed above the sand pack. GM-MW-16A was installed as a replacement for GM-MW16, which was destroyed during the excavation of Test Pit TP1. GM-MW-16A was completed with a curb-box, which was concreted in place. Monitoring well construction diagrams are included in Appendix A.

On July 14, 2015, the temporary monitoring wells were opened and screened with a PID, the static water level was measured in each well, the presence of light non-aqueous phase liquid (LNAPL) and dense non-aqueous phase liquid (DNAPL) was assessed using an interface probe, the wells were purged, and groundwater samples were collected. Groundwater samples were submitted for laboratory analysis of TCL VOCs and TICs.

On July 17, 2015, DAY personnel decommissioned the nine temporary monitoring wells. For temporary monitoring wells TMW1 to TMW3, TMW5 to TMW7, and TMW9, the PVC casings were removed and the resulting boreholes were backfilled with hydrated bentonite grout. For temporary monitoring wells TMW8 and TMW10, the PVC casing broke in-place at about five-feet below the ground surface as the casing was being pulled from the ground. Therefore, the resulting boreholes at each of these two locations, including the remaining portions of the PVC casing and well screen, were backfilled with hydrated bentonite grout.

2.3 Quality Assurance/Quality Control

The applicable quality assurance/quality control (QA/QC) protocols and procedures included in the RAWP Quality Assurance Project Plan (QAPP) were implemented during performance of the tasks associated with the RDI. In accordance with the QAPP, the following QA/QC samples were submitted to Paradigm and analyzed for the parameters identified:

- A field blank from test pit sampling equipment (designated as FB-06-19-2015) was analyzed for TCL VOCs and TICs using USEPA Method 8260, TCL SVOCs and TICs using USEPA Method 8270 and Lead using USEPA Method 6010.
- A matrix spike/matrix spike duplicate (MS/MSD) was performed on soil sample TP1-06-18-2015 which was tested for TCL VOCs using USEPA Method 8260, TCL SVOCs and TICs using USEPA Method 8270 and Lead using USEPA Method 6010.
- A field blank from soil sampling equipment (designated as FB-14-07-15) was analyzed for TCL VOCs and TICs using USEPA Method 8260, TCL SVOCs and TICs using USEPA Method 8270 and Lead using USEPA Method 6010.
- A MS/MSD was performed on groundwater sample GM-MW-16A-14-07-15 which was tested for TCL VOCs and TICs using USEPA Method 8260.

• A trip blank (designated as T-634) was analyzed for TCL VOCs and TICs using USEPA Method 8260.

Data Usability Summary Reports

Data Usability Summary Reports (DUSRs) have been prepared by Environmental Data Validation, Inc. (EDV) for data packages 152526 and 152535 (sampling dates June 18, 19 and 22, 2015) and for data packages 152971 and 152977 (sampling dates July 13 and 14, 2015). The scope of the DUSRs included review of blanks, instrument tunings, calibration standards, calibration verifications, laboratory controls, surrogate recoveries, spike recoveries, and sample data.

2.4 CAMP Monitoring

As per the requirements of the Health and Safety Plan, Community Air Monitoring Plan (CAMP) monitoring was conducted during ground intrusive activities (i.e., test pit excavations, pipe removal and test borings). Field notes and CAMP Monitoring logs are included in Appendix D.

2.5 Investigation Derived Wastes

Investigation derived wastes (IDWs), such as well purge water and decontamination water, was placed in New York State Department of Transportation (NYSDOT)-approved drums. A sample from a drum of liquid IDW (designated as Sample WC-17-07-15) was collected following completion of the RDI field work. Also, a sample from a second drum of liquid IDW (designated as Sample WC-26-02-2016) was collected subsequent to receipt of NYSDEC comments regarding the RDI Report. The samples were submitted for laboratory testing of the following:

- Purgeable Organics using USEPA Method 624; and
- SVOCs using USEPA Method 625.

On March 31, 2016, the two drums of liquid IDW were transported by DAY personnel to the Frank E. VanLare Wastewater Treatment Plant (WTP), for discharge at a location into the treatment system identified by WTP personnel. The liquid IDW was discharged under Specialty Short Term Discharge Permit ST-305. A copy of the Specialty Short Term Discharge Permit is provided in Appendix F.

Piping removed during the investigation was taken off-site by TREC personnel. A TREC representative indicated that free liquids were not present in the piping, and that the piping was sent for recycling to the Ben Weitsman of Rochester facility located at 80 Steel Street, Rochester, NY. No documentation regarding the recycling of this piping was generated. Concrete removed during the excavation work was put back into the test pit excavations in the same general strata from which the concrete was removed.

3.0 FINDINGS

The findings of the work performed during the RDI are presented in this section of the report. Analytical laboratory reports and chain-of-custody documentation for soil samples, groundwater samples, and QA/QC samples are included in Appendix E.

3.1 Soil

As shown on the test pit logs included in Appendix A, peak PID readings on soil samples from the initial three test pits ranged between 9.7 parts per million (ppm) (TP3) and 681 ppm (TP1). The peak PID reading on soil from test pit TP4 was 248 ppm. Peak PID readings on soil samples from the test borings ranged from 0.0 ppm (TMW2, TMW3) to 284 ppm (TMW5).

Fill material consisting of sand and gravel was observed in the eleven test borings and four test pits. Wood beams, shingles and brick were observed in the fill at test pit TP1. Fill material in the location of the USTs was fine sand with little to no gravel. Broken asphalt-pavement was observed in two layers in portions of Test Pit TP1, and two to three layers of asphalt-pavement was observed in Test Pit TP2, including asphalt-pavement at the ground surface. Increasing clay content was observed below 5 ft. bgs. in TMW5 and below 10 ft. bgs. in TMW6. Peat was observed below 10 ft. bgs. at TMW10. Apparent indigenous materials consisting of clay with some silt and sand were encountered beneath fill materials at test locations TMW5 and TMW6.

The soil sample analytical laboratory test results for TCL VOCs and TICs, TCL SVOCs and TICs and Lead are provided on Table 2, Table 3 and Table 4, respectively. These results are discussed below:

VOCs

As shown on Table 2, TCL VOCs were detected in each of the fifteen soil samples that were Apparent petroleum-related TCL VOCs detected in one or more soil samples tested. included: benzene, ethylbenzene, xylenes, isopropylbenzene, cyclohexane, methylcyclohexane and toluene. Other TCL VOCs detected in one or more soil samples included: acetone, 2-butanone, carbon disulfide, methylene chloride and trans-1,3dichloropropene. TICs were detected in nine of the fifteen soil samples that were tested and had a maximum total TICs concentration of 647 ppm (TP1-06-18-2015). The total TCL VOCs and TICs ranged in concentration from 0.0148 ppm (TP2-06-19-2015) to 722.21 ppm (TP1-06-18-2015). The ratio of TICs to total VOCs from soil sample TP1-06-18-2015 was approximately 8.6:1 (i.e., 647 ppm: 75 ppm), indicating that the petroleum contamination is likely weathered. Total TCL VOCs and TICs concentrations detected in the soil sample from each test boring are shown on Figure 4.

The detected concentrations of TCL VOCs were compared to soil cleanup objectives (SCOs) for Unrestricted Use, Restricted Commercial Use and Protection of Groundwater as referenced in the NYSDEC document titled "6 NYCRR Part 375 Environmental Remediation Program", dated December 15, 2006 as supplemented by NYSDEC document titled "CP-51/Soil Cleanup Guidance", dated October 21, 2010. As shown on Table 2, the

concentration of ethylbenzene and total xylenes in the soil sample collected from TP1, and the concentrations of acetone in soil samples collected from TMW3 (6-8), TMW5 (2-4) and TMW8 (3-4), exceeded their Unrestricted Use SCOs and Protection of Groundwater SCOs; however, the concentrations of ethylbenzene, xylenes and acetone did not exceed their Restricted Commercial Use SCOs. The other eleven soil samples tested contained one or more TCL VOCs; however, the concentrations of VOCs detected were below their respective Unrestricted Use SCOs.

SVOCs

As shown on Table 3, TCL SVOCs were detected in nine of the fifteen soil samples that were tested. TICs were detected in the fifteen soil samples that were tested. Concentrations of TICs ranged from 1.25 ppm [TMW10-14-07-15(6-8)] to 80.4 ppm (TMW1-06-18-2015). Total TCL SVOCs and TICs concentrations detected in the soil sample from each test boring are shown on Figure 4. TCL SVOCs detected in one or more soil samples included: 2methylnaphthalene, acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, bis(2ethylhexyl)phthalate, carbazole, chrysene, dibenz(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene and pyrene.

The detected concentrations of specific SVOCs were compared to Unrestricted Use, Restricted Commercial Use and Protection of Groundwater. As shown on Table 3, the soil samples discussed below had exceedances of Unrestricted Use SCOs, Restricted Commercial Use SCO and/or Protection of Groundwater SCOs:

TP1-06-18-2015:

Benzo(a)anthracene: Concentration of 1.99 mg/kg exceeded the Unrestricted Use SCO of 1 mg/kg and Protection of Groundwater SCO of 1 mg/kg.

Benzo(a)pyrene: Concentration of 2.13 mg/kg exceeded the Unrestricted Use SCO of 1 mg/kg and Restricted Commercial Use SCO of 1 mg/kg.

Benzo(b)fluoranthene: Concentration of 2.51 mg/kg exceeded the Unrestricted Use SCO of 1 mg/kg and Protection of Groundwater SCO of 1.7 mg/kg.

Benzo(k)fluoranthene: Concentration of 1.45 mg/kg exceeded the Unrestricted Use SCO of 0.8 mg/kg.

Chrysene: Concentration of 1.89 mg/kg exceeded the Unrestricted Use SCO of 1 mg/kg and Protection of Groundwater SCO of 1 mg/kg.

Dibenz(a,h)anthracene: Concentration of 0.487 mg/kg exceeded the Unrestricted Use SCO of 0.33 mg/kg.

Indeno(1,2,3-cd)pyrene: Concentration of 2.14 mg/kg exceeded the Unrestricted Use SCO of 0.5 mg/kg.

TMW1-13-07-15(7-8):

Benzo(a)anthracene: Concentration of 1.28 mg/kg exceeded the Unrestricted Use SCO of 1 mg/kg and Protection of Groundwater SCO of 1 mg/kg.

Benzo(a)pyrene: Concentration of 1.29 mg/kg exceeded the Unrestricted Use SCO of 1 mg/kg and Restricted Commercial Use SCO of 1 mg/kg.

Benzo(b)fluoranthene: Concentration of 1.37 mg/kg exceeded the Unrestricted Use SCO of 1 mg/kg.

Benzo(k)fluoranthene: Concentration of 1.06 mg/kg exceeded the Unrestricted Use SCO of 0.8 mg/kg.

Chrysene: Concentration of 1.4 mg/kg exceeded the Unrestricted Use SCO of 1 mg/kg and Protection of Groundwater SCO of 1 mg/kg.

Indeno(1,2,3-cd)pyrene: Concentration of 0.942 mg/kg exceeded the Unrestricted Use SCO of 0.5 mg/kg.

GM-MW-16A-13-07-15(4-8):

Benzo(a)anthracene: Concentration of 1.58 mg/kg exceeded the Unrestricted Use SCO of 1 mg/kg and Protection of Groundwater SCO of 1 mg/kg.

Benzo(a)pyrene: Concentration of 1.48 mg/kg exceeded the Unrestricted Use SCO of 1 mg/kg and Restricted Commercial Use SCO of 1 mg/kg.

Benzo(b)fluoranthene: Concentration of 1.43 mg/kg exceeded the Unrestricted Use SCO of 1 mg/kg.

Benzo(k)fluoranthene: Concentration of 1.18 mg/kg exceeded the Unrestricted Use SCO of 0.8 mg/kg.

Chrysene: Concentration of 1.66 mg/kg exceeded the Unrestricted Use SCO of 1 mg/kg and Protection of Groundwater SCO of 1 mg/kg.

Indeno(1,2,3-cd)pyrene: Concentration of 1.01 mg/kg exceeded the Unrestricted Use SCO of 0.5 mg/kg.

TP4-13-07-15(2.5):

Benzo(a)anthracene: Concentration of 1.16 mg/kg exceeded the Unrestricted Use SCO of 1 mg/kg and Protection of Groundwater SCO of 1 mg/kg.

Benzo(a)pyrene: Concentration of 1.08 mg/kg exceeded the Unrestricted Use SCO of 1 mg/kg and Restricted Commercial Use SCO of 1 mg/kg.

Benzo(b)fluoranthene: Concentration of 1.11 mg/kg exceeded the Unrestricted Use SCO of 1 mg/kg.

Benzo(k)fluoranthene: Concentration of 0.897 mg/kg exceeded the Unrestricted Use SCO of 0.8 mg/kg.

Chrysene: Concentration of 1.11 mg/kg exceeded the Unrestricted Use SCO of 1 mg/kg and Protection of Groundwater SCO of 1 mg/kg.

Indeno(1,2,3-cd)pyrene: Concentration of 0.715 mg/kg exceeded the Unrestricted Use SCO of 0.5 mg/kg.

Lead

As shown on Table 4, lead was detected in the nine soil samples tested. The concentration of lead in soil samples collected from TP3, TMW3 and TMW5 exceeded the Unrestricted Use SCO, but did not exceed the Restricted Commercial Use SCO or the Protection of Groundwater SCO. The concentrations of lead detected in the other six soil samples were below the Unrestricted Use SCO. Lead concentrations detected in the soil samples tested are shown on Figure 4.

3.2 Groundwater

The water levels measured from the temporary groundwater monitoring wells on July 14, 2015, ranged from 3.33 ft. bgs. (TMW5) to 0.97 ft. bgs. (TMW10). Given the variation in depth to groundwater, as well as the proximity of the temporary groundwater monitoring wells to each other, these measurements may not be representative of true static water levels, hence an elevation survey of the temporary monitoring wells was not completed. LNAPL and DNAPL were not encountered in the groundwater monitoring wells.

VOCs

As shown on Table 5, TCL VOCs were detected in four of the ten groundwater samples tested (i.e., TMW1, GM-MW-16A, TMW5 and TMW7). TICs were also detected in these four groundwater samples. The maximum concentration of TCL VOCs and TICs was 1,723.22 parts per billion (ppb) (TMW5). The total TCL VOCs and TICs results are shown on Figure 5. Detected VOCs were typical of petroleum products, such as benzene, cyclohexane, ethylbenzene, isopropylbenzene, xylenes and toluene. The ratio of TICs to total VOCs from groundwater sample TMW5 was approximately 5.8:1 (i.e., 1470 ppb:253 ppb), indicating that the petroleum contamination is likely weathered. The TCL VOCs acetone and trans-1,3-dichloropropene were also detected in one or more of the four samples. The concentration of benzene in the groundwater samples from TMW1, GM-MW-16A, TMW5 and TMW7 exceeded 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" (TOGS 1.1.1) dated June 1998, amended April 2000 and June 2004. The concentrations of xylenes in the groundwater sample from GM-MW-16A also exceeded groundwater standards or guidance values. The concentrations of ethylbenzene, isopropylbenzene, xylenes, toluene and trans-1,3-dichloropropene in the groundwater sample from TMW5 also exceeded groundwater standards or guidance values.

3.3 Quality Assurance/Quality Control

The test results of the QA/QC samples are provided in the analytical laboratory reports included in Appendix E, and the test results for the field QA/QC samples are summarized on Table 6, Table 7 and Table 8. VOC TICs and SVOC TICs were detected in field blank FB-06-19-2015, but at concentrations that do not significantly affect the analytical results of soil or groundwater samples that were collected as part of the RDI.

The information presented in the DUSRs included in Appendix E was used to qualify the analytical laboratory data as appropriate. These qualifications are incorporated into the summary tables presented in this document. A discussion of qualifiers resulting from the DUSR is provided below:

Acetone in soil samples TP1-06-18-2015 and TP3-06-22-2015 was qualified UJ and J respectively, due to deficiency with the surrogate.

- Acetone, ethylbenzene, methylcyclohexane and trans-1,3-dichloropropene in soil sample TMW5-14-07-15(2-4) was qualified J due to deficiency with the surrogate.
- Lead was qualified J in soil samples TMW1-13-07-15(7-8), TMW3-13-07-15(6-8), GM-MW-16A-13-07-15(4-8), TP4-13-07-15(2.5), TMW5-14-07-15(2-4) and TMW7-14-07-15(4-6) due to deficiency with the matrix spike.
- A number of VOCs and SVOCs were qualified UJ due to deficiency with calibration quality control, laboratory control sample or surrogates. The affected VOCs and SVOCs are not listed on the summary tables since they were not detected in one or more sample.

3.4 CAMP Monitoring

No exceedances of VOC or particulate action monitoring levels were measured at the downwind Site perimeter CAMP monitoring locations during ground intrusive activities. CAMP monitoring logs as well as figures indicating locations, wind direction and approximate speed are provided in Appendix D.

3.5 Investigation Derived Wastes

Detectable concentrations of purgeable organics and SVOCs were not reported for the IDW samples.

4.0 CONCLUSIONS

DAY performed the RDI in substantial conformance with Section 2.1 of the Remedial Action Work Plan – Phase 2, as modified by the NYSDEC's September 19, 2013 conditional approval letter. The scope of work included the initial advancement of three test pits, the removal of piping associated with two concrete-filled USTs, advancement of a fourth test pit, advancement and soil sampling at eleven test boring locations, installation of ten groundwater monitoring wells and groundwater sampling of the ten groundwater monitoring wells. One of the groundwater monitoring wells was completed as a permanent monitoring well (GM-MW-16A). Soil samples from test pits and test borings were submitted for laboratory analysis of TCL VOCs and TICs and TCL SVOCs and TICs. Lead was also analyzed on one-half of the soil samples. Groundwater samples were submitted for laboratory analysis of TCL VOCs and TICs.

Based on the findings of the RDI, provided below are conclusions:

- Two concrete-filled USTs, each approximately 550-gallon in size, were identified in test pit TP1. These USTs are located approximately one foot east of Building 6 and in proximity to a foundation footer. A structural engineer concluded that removal of the concrete-filled USTs would compromise the structural integrity of the building, so with the concurrence of the NYSDEC, the USTs were not removed. A pipe was connected to the tops of both USTs and entered the south wall of a large concrete slab. Additional piping was present running from the large concrete slab to the east.
- During pipe removal work, an assumed former pump dispenser concrete pad was identified to the east of the concrete-filled USTs (refer to Figure 3).
- Evidence of petroleum contamination in soil (i.e., staining, odors, elevated PID readings) appeared to be greatest within the area of the two concrete-filled USTs, and in the location of the assumed former pump dispenser and pipe elbow located adjacent to test pit TP4. The majority of soil contamination is present within the saturated zone.
- Based on TCL VOC and TICs analytical results, petroleum contamination in groundwater also appears to be greatest within the location of the concrete-filled USTs and in the location of the assumed former pump dispenser,
- Based on analytical results (i.e., the ratio of concentrations of VOC TICs versus total VOCs, and SVOC TICs versus total SVOCs), the petroleum contamination appears to be weathered (i.e., comprised mostly of non-target petroleum-related compounds).
- In general, petroleum contamination in soil and groundwater appears to be delineated to the west, north and south, and is bounded to the east by the Genesee River.
- Samples of IDWs did not have detectable concentrations of purgeable organics or SVOCs. IDWs will be disposed of off-site in accordance with applicable regulations.

The concentrations of VOC contamination in saturated soil and groundwater appears to be suitable for remediation through in-situ technology. Further details regarding remediation of this area will be provided in the Remedial Design Work Plan (RDWP) that will be completed, as outlined in Section 2.2 of the Remedial Action Work Plan – Phase 2.

5.0 REFERENCES

NYSDEC Division of Water, Technical and Operational Guidance Series 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (TOGS 1.1.1), June 1998, Addended April 2000 and June 2004.

NYSDEC, 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.

NYSDEC Division of Environmental Remediation, DER-10 / Technical Guidance for Site Investigation and Remediation, May 3, 2010.

NYSDEC CP-43: Groundwater Monitoring Well Decommissioning Policy, November 3, 2009.

NYSDEC CP-51: Soil Cleanup Guidance, October 21, 2010.

Remedial Action Work Plan – Phase 2, Former Underground Storage Tank Area; 118 Petten Street, Rochester, New York; Brownfield Cleanup Program, NYSDEC Site ID. C828130, December 2012; Day Environmental, Inc., as modified by NYSDEC conditional approval letter dated September 19, 2013.

6.0 ACRONYMS

BCP Brownfield Cleanup Program

bgs below ground surface

CAMP Community Air Monitoring Plan
CFR Code of Federal Regulations
DAY Day Environmental, Inc.

DNAPL Dense Non-Aqueous Phase Liquid
DUSR Data Usability Summary Report
EDV Environmental Data Validation, Inc.

ELAP Environmental Laboratory Approval Program

eV Electron Volt

Ft. Feet

HAZWOPER Hazardous Waste Operations and Emergency Response

LNAPL Light Non-Aqueous Phase Liquid
MS/MSD Matrix Spike/Matrix Spike Duplicate
NYCRR New York Codes, Rules and Regulations

NYS New York State

NYSDEC New York State Department of Environmental Conservation

NYSDOH New York State Department of Health

NYSDOT New York State Department of Transportation

Paradigm Paradigm Environmental Services, Inc.

PID Photoionization Detector

PPB Parts Per Billion
PPM Parts Per Million
PVC Polyvinyl Chloride

QAPP Quality Assurance Project Plan QA/QC Quality Assurance/Quality Control

RAWP Remedial Action Work Plan
RDI Remedial Design Investigation
RDWP Remedial Design Work Plan

SCO Soil Cleanup Objective

SVOC Semi-Volatile Organic Compound

TCL Target Compound List

TIC Tentatively Identified Compound

TOGS Technical and Operational Guidance Series

TREC Environmental, Inc.

USEPA United States Environmental Protection Agency

UST Underground Storage Tank
VOC Volatile Organic Compound

TABLES

REMEDIAL DESIGN INVESTIGATION

118 PETTEN STREET,
ROCHESTER, NY

AUGUST 2015 (Revised April 2016)

Table 1 118 Petten Street Rochester, New York Site No: C828130

Analytical Laboratory Program for Field and QA/QC Samples

									Analyti	cal Test Paran	neters
Sample ID	Laboratory Sample ID	Collection Date	Collection Time	Composite or Grab	PID Reading (ppm)	Depth (ft bgs)	Matrix	MS/MSD Collected	TCL VOCs & TICs	TCL SVOCs & TICs	Lead
TP1-06-18-2015	152526-01	6/18/2015	13:25	Grab	681	4.5	Soil	Yes	•	•	•
TP2-06-19-2015	152526-02	6/19/2015	15:30	Grab	49.5	3.5	Soil	No	•	•	•
TP3-06-22-2015	152535-01	6/22/2015	13:40	Grab	4.3	5	Soil	No	•	•	•
TMW1-13-07-15(7-8)	152971-11	7/13/2015	11:10	Grab	0.0	7-8	Soil	No	•	•	•
TMW2-13-07-15(7-8)	152971-12	7/13/2015	12:25	Grab	0.0	7-8	Soil	No	•	•	
TMW3-13-07-15(6-8)	152971-13	7/13/2015	14:33	Grab	0.0	6-8	Soil	No	•	•	
GM-MW-16A-13-07-15(4-8)	152971-14	7/13/2015	15:30	Grab	0.0	4-8	Soil	No	•	•	•
TP4-13-07-15(2.5)	152971-15	7/13/2015	12:00	Grab	248	2.5	Soil	No	•	•	•
TMW5-14-07-15(2-4)	152977-01	7/14/2015	8:31	Grab	270	2-4	Soil	No	•	•	•
TMW5-14-07-15(10-12)	152977-08	7/14/2015	8:35	Grab	0.8	10-12	Soil	No	•	•	
TMW6-14-07-15(4-6)	152977-09	7/14/2015	9:42	Grab	0.5	4-6	Soil	No	•	•	
TMW7-14-07-15(4-6)	152977-03	7/14/2015	10:25	Grab	3.9	4-6	Soil	No	•	•	•
TMW8-14-07-15(3-4)	152977-04	7/14/2015	11:32	Grab	0.0	3-4	Soil	No	•		
TMW8-14-07-15(4-8)	152977-05	7/14/2015	11:34	Grab	0.0	4-8	Soil	No		•	
TMW9-14-07-15(4-6)	152977-06	7/14/2015	11:48	Grab	1.1	4-6	Soil	No	•	•	
TMW10-14-07-15(6-8)	152977-07	7/14/2015	12:50	Grab	1.1	6-8	Soil	No	•	•	
TMW1-14-07-15	152971-02	7/14/2015	15:31	Grab	3.2	NA	Groundwater	No	•		
TMW2-14-07-15	152971-03	7/14/2015	15:40	Grab	1.7	NA	Groundwater	No	•		
TMW3-14-07-15	152971-04	7/14/2015	15:50	Grab	0.4	NA	Groundwater	No	•		
GM-MW-16A-14-07-15	152971-05	7/14/2015	16:00	Grab	2.5	NA	Groundwater	Yes	•		
TMW5-14-07-15	152971-06	7/14/2015	16:15	Grab	115	NA	Groundwater	No	•		
TMW6-14-07-15	152971-07	7/14/2015	16:25	Grab	0	NA	Groundwater	No	•		
TMW7-14-07-15	152971-08	7/14/2015	16:33	Grab	1.3	NA	Groundwater	No	•		
TMW8-14-07-15	152971-09	7/14/2015	16:40	Grab	0.8	NA	Groundwater	No	•		
TMW9-14-07-15	152971-10	7/14/2015	16:50	Grab	2.9	NA	Groundwater	No	•		
TMW10-14-07-15	152971-16	7/14/2015	16:55	Grab	1.7	NA	Groundwater	No	•		
FB-06-19-2015	152526-03	6/19/2015	11:30	Grab	NA	NA	Water	No	•	•	•
FB-14-07-15	152971-01	7/14/2015	13:01	Grab	NA	NA	Water	No	•	•	•
Trip Blank (T-634)	152971-17	NA	NA	NA	NA	NA	Water	NA	•		

Notes:

NA = Not Available

Table 2 118 Petten Street Rochester, New York Site No: C828130

Summary of Detected Volatile Organic Compounds in mg/kg or ppm Soil Samples

		Doctrictor	Ductostics of	TP1-06-18-	-2015	TP2-06-19-2015	TP3-06-22-2015	TMW1-13-07-15(7-8)	TMW2-13-07-20-15(7-8)	TMW3-13-07-15(6-8)	GM-MW-16A-13-07-15(4-8)	TP4-13-07-15(2.5)
Commound	Unrestricted	Restricted	Protection of	4.5		3.5	5.0	7-8	7-8	6-8	4-8	2.5
Compound	Use SCO	Commercial	Groundwater	152526-	-01	152526-02	152535-01	152971-11	152971-12	152971-13	152971-14	152971-15
		sco	sco	6/18/20	15	6/19/2015	6/22/2015	7/13/2015	7/13/2015	7/13/2015	7/13/2015	7/13/2015
Acetone	0.05	500	0.05	U	J	0.0148 J	0.0259 J	0.0205 J	0.0209 J	0.158 AC	U	U
Benzene	0.06	44	0.06	U		U	U	U	U	U	0.00453	U
2-Butanone	NS	NS	0.3	U		U	U	U	U	0.0451	U	U
Carbon Disulfide	NS	NS	2.7	U		U	U	U	0.00437	U	U	U
Cyclohexane	NS	NS	NS	11.7		U	0.0196 J	0.0371	U	U	0.141	U
Ethylbenzene	1	390	1	1.66	AC	U	U	U	U	U	0.027	U
Isopropylbenzene	NS	NS	2.3	0.845		U	U	0.00366 J	U	U	0.0143	U
Xylenes (mixed)	0.26	500	1.6	6.605	AC	U	U	0.01338 J	U	U	0.08251	U
Methylcyclohexane	NS	NS	NS	54.4		U	0.0125	0.0386	0.0303 J	U	0.2	0.449
Methylene Chloride	0.05	500	0.05	U		U	U	U	U	0.00597	U	U
trans-1,3-Dichloropropene	NS	NS	NS	U		U	U	U	U	U	0.00349 J	U
Toluene	0.7	500	0.7	U		U	U	U	U	U	0.00604	U
Total VOCs				75.21		0.0148	0.0580	0.11324	0.05557	0.20907	0.47887	0.449
Total TICs ⁽¹⁾	·			647.0	0	U	0.097	1	U	U	1.91	30.9
Total VOCs and TICs ⁽¹⁾				722.2	1	0.0148	0.155	1.11324	0.05557	0.20907	2.38887	31.349

		Doctrictor	Duatastian of	TMW5-14-0	7-15(2-4	TMW5-14-07-15(10-12)	TMW6-14-07-15(4-6)	TMW7-14-07-15(4-6)	TMW8-14-07-15(3-4)	TMW9-14-07-15(4-6)	TMW10-14-07-15(6-8)	$\overline{}$
Compound	Unrestricted	Restricted Commercial	Protection of Groundwater	2-	1	10-12	4-6	4-6	3-4	4-6	6-8	
Compound	Use SCO	SCO		15297	7-01	152977-08	152977-09	152977-03	152977-04	152977-06	152977-07 7/14/2015	
		300	sco	7/14/	2015	7/14/2015	7/14/2015	7/14/2015	7/14/2015	7/14/2015		
Acetone	0.05	500	0.05	0.426	J AC	0.0173	0.0184	0.0207	0.0925 AC	0.033	0.0134	
Benzene	0.06	44	0.06	U		U	U	U	U	U	U	
2-Butanone	NS	NS	0.3	J		U	U	U	0.0188	U	U	
Carbon Disulfide	NS	NS	2.7	J		U	0.0288	0.00466	U	U	U	
Cyclohexane	NS	NS	NS	J		U	U	U	U	0.0177	U	
Ethylbenzene	1	390	1	0.113	J	U	U	U	U	U	U	
Isopropylbenzene	NS	NS	2.3	0.165	J	U	U	U	U	U	U	
Xylenes (mixed)	0.26	500	1.6	U		U	U	U	U	0.00348	U	
Methylcyclohexane	NS	NS	NS	3.34	J	U	0.0058	0.00626	U	0.0804	U	
Methylene Chloride	0.05	500	0.05	J		U	U	U	0.00684	U	0.00546	
trans-1,3-Dichloropropene	NS	NS	NS	0.0798	J	U	U	U	U	0.00482	U	
Toluene	0.7	500	0.7	U		U	U	U	U	U	U	
Total VOCs				4.12	38	0.0173	0.053	0.03162	0.11814	0.1394	0.01886	
Total TICs ⁽¹⁾				67	6	U	0.0257	0.0805	U	1.05	U	
Total VOCs and TICs ⁽¹⁾				71.7	238	0.0173	0.0787	0.11212	0.11814	1.1894	0.01886	

Note

U = Not Detected

NS = No Standard

A = Exceeds Unrestricted Use SCO

B = Exceeds Commercial Use SCO

C = Exceeds Protection of Groundwater SCO

Units in milligrams per killigram (mg/kg) or parts per million (ppm)

Soil cleanup objectives (SCOs) are as referenced in 6 NYCRR Part 375-6, Remedial Program Cleanup Objectives, dated December 14, 2006, as supplemented by CP-51 dated October 21, 2010.

J = Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than the method detection limit. The concentration given is an approximate value.

UJ = Not Detected at an estimated detection limit as qualified by the data validator.

(1) Refer to the analytical laboratory report for individual TICs detected and associated flags.

VOC = Volatile Organic Compound

TIC = Tentatively Identified Compound

TMW3-13-07-15(6-8)	Sample ID
6-8	Sample Depth in feet below ground surfac
152971-13	Laboratory Sample ID
7/13/2015	Sample Collection Date (mm/dd/yyyy)

Table 3 118 Petten Street Rochester, New York Site No: C828130

Summary of Detected Semi-Volatile Organic Compounds in mg/kg or ppm Soil Samples

				TP1-06-1	8-2015	TP2-06-19	-2015	TP3-06-22-2015	TMW1-13-07-	15(7-8)	TMW2-13-07-15(7-8) TN	1W3-13-07-15(6-8) GM-MW-16A-1	3-07-15(4-8)	TP4-13-07	7-15(2.5)
		Restricted	Protection of	15252	6-01	152526	-02	152535-01	152971-1	.1	152971-12	,	152971-13	15297	1-14		15297	1-15
	Unrestricted	Commercial	Groundwater	4.5	5	3.5		5	7-8		7-8		6-8	4-8	3		2.5	5
Compound	Use SCO	sco	sco	6/18/	2015	6/19/2	015	6/22/2015	7/13/201	.5	7/13/2015		7/13/2015	7/13/2	2015		7/13/2	2015
2-Methylnaphthalene	NS	NS	36.4	3.23		U		U	U		U		U	0.406			U	
Acenapthene	20	500	98	0.853		U		U	0.406		0.199 J		U	0.560			U	
Acenaphthylene	100	500	107	0.309	J	U		U	0.174	J	U		U	0.232	J		0.237	J
Anthracene	100	500	1000	1.68		U		U	0.792		U		U	1.11			0.54	
Benzo(a)anthracene	1	5.6	1	1.99	AC	U		0.457	1.28	AC	0.373		0.217 J	1.58		AC	1.16	AC
Benzo(a)pyrene	1	1	22	2.13	AB	U		0.451	1.29	AB	0.367		0.226 J	1.48		AB	1.08	AB
Benzo(b)fluoranthene	1	5.6	1.7	2.51	AC	U		0.531	1.37	Α	0.451		0.26 J	1.43		Α	1.11	Α
Benzo(g,h,i)perylene	100	500	1000	1.32		U		0.296 J	0.852		0.266 J		U	0.798			0.594	
Benzo(k)fluoranthene	0.8	56	1.7	1.45	Α	U		0.328 J	1.06	Α	0.322 J		0.195 J	1.18		Α	0.897	Α
Bis(2-ethylhexyl)phthalate	NS	NS	435	U		U		U	0.19	J	0.202 J		0.19 J	0.219	J		U	
Carbazole	NS	NS	NS	0.681		U		U	0.263	J	U		U	0.353			U	
Chrysene	1	56	1	1.89	AC	U		0.523	1.4	AC	0.452		0.262 J	1.66		AC	1.11	AC
Dibenz(a,h)anthracene	0.33	0.56	1000	0.487	Α	U		U	0.261	J	U		U	0.303	J		0.201	J
Dibenzofuran	7	350	210	0.984		U		U	0.341		U		U	0.553			U	
Fluoranthene	100	500	1000	5.31		U		1.26	3.77		0.869		0.539	3.97			2.48	
Fluorene	30	500	386	1.72		U		U	0.557		U		U	0.905			0.265	J
Indeno(1,2,3-cd)pyrene	0.5	5.6	8.2	2.14	Α	U		0.415	0.942	Α	0.332 J		0.194 J	1.01		Α	0.715	Α
Naphthalene	12	500	12	2.87		U		U	U		U		U	0.545			U	
Phenanthrene	100	500	1000	5.89		U		0.761	2.9		0.261 J		0.355	3.56			1.19	
Pyrene	100	500	1000	4.57	М	U		0.966	2.99		0.76		0.430	3.16			2.14	
Total SVOCs	·			42.0	14	U		5.988	20.838		4.854		2.868	25.0	14		13.7	19
Total TICs ⁽¹⁾	TICs ⁽¹⁾ 80.4			18.5		12.00	11.7		8.71		8.95	13.0	00		28.8	:00		
Total SVOCs and TICs ⁽¹⁾	SVOCs and TICs ⁽¹⁾ 122.414				414	18.5		17.988	32.538		13.564		11.818	38.0	14		42.5	19

				TMW5-14-07-15(2-4) TMW5-14-07-15(10-12)	TMW6-14-07-15(4-6)	TMW7-14-07-15(4-6)	TMW8-14-07-15(4-8)	TMW9-14-07-15(4-6)	TMW10-14-07-15(6-8)	
		Restricted		152977-01	152977-08	152977-09	152977-03	152977-05	152977-06	152977-07	
	Unrestricted	Commercial	Protection of	2-4	10-12	4-6	4-6	4-8	4-6	6-8	
Compound	Use SCO	SCO	GW SCO	7/14/2015	7/14/2015	7/14/2015	7/14/2015	7/14/2015	7/14/2015	7/14/2015	
2-Methylnaphthalene	NS	NS	36.4	U	U	U	U	U	U	U	
Acenapthene	20	500	98	U	U	U	U	U	U	U	
Acenaphthylene	100	500	107	U	U	U	U	U	U	U	
Anthracene	100	500	1000	U	U	U	U	U	U	U	
Benzo(a)anthracene	1	5.6	1	U	U	U	U	0.363	U	U	
Benzo(a)pyrene	1	1	22	U	U	U	U	0.388	U	U	
Benzo(b)fluoranthene	1	5.6	1.7	U	U	U	U	0.438	U	U	
Benzo(g,h,i)perylene	100	500	1000	U	U	U	U	0.272 J	U	U	
Benzo(k)fluoranthene	0.8	56	1.7	U	U	U	U	0.317 J	U	U	
Bis(2-ethylhexyl)phthalate	NS	NS	435	0.171 J	U	U	U	0.353	U	U	
Carbazole	NS	NS	NS	U	U	U	U	U	U	U	
Chrysene	1	56	1	U	U	U	U	0.463	U	U	
Dibenz(a,h)anthracene	0.33	0.56	1000	U	U	U	U	U	U	U	
Dibenzofuran	7	350	210	U	U	U	U	U	U	U	
Fluoranthene	100	500	1000	U	U	U	U	0.957	U	U	
Fluorene	30	500	386	U	U	U	U	U	U	U	
Indeno(1,2,3-cd)pyrene	0.5	5.6	8.2	U	U	U	U	0.288 J	U	U	
Naphthalene	12	500	12	U	U	U	U	U	U	U	
Phenanthrene	100	500	1000	U	U	U	U	0.56	U	U	
Pyrene	100	500	1000	U	U	U	U	0.754	U	U	
Total SVOCs	-	-		0.171	U	U	U	5.153	U	U	
Total TICs ⁽¹⁾	I TICs ⁽¹⁾ 12.800			2.200	5.140	1.71	8.480	6.45	1.25		
Total SVOCs and TICs ⁽¹⁾	s and TICs ⁽¹⁾ 12.971			2.200	5.140	1.71	13.633	6.45	1.25		

- U = Not Detected
- NS = No Standard

- NS = NO Scaludaru
 A = Exceeds Unrestricted Use SCO
 B = Exceeds Commercial Use SCO
 C = Exceeds Protection of Groundwater SCO
- Units in milligrams per killigram (mg/kg) or parts per million (ppm)
 Soil cleanup objectives (SCOs) are as referenced in 6 NYCRR Part 375-6, Remedial Program Cleanup Objectives, dated December 14, 2006, as supplemented by CP-51 dated October 21, 2010. J = Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than the method detection limit. The concentration given is an approximate value.
- UJ = Not Detected at an estimated detection limit as qualified by the data validator.
- M = Matrix spike recoveries outside QC limits. Matrix bias indicated.
- (1) Refer to the analytical laboratory report for individual TICs detected and associated flags.

SVOC = Semi-Volatile Organic Compound TMW3-13-07-15(6-8) Sample ID

1101003-13-07-13(6-8)	Sample iD
6-8	Sample Depth in feet below ground surface
152971-13	Laboratory Sample ID
7/13/2015	Sample Collection Date (mm/dd/vvvv)

Table 4 118 Petten Street Rochester, New York Site No: C828130

Summary of Detected Lead Concentrations Soil Samples

		Restricted	Protection of	TP1-06-18-2015	TP2-06-19-2015	TP3-06-22-2015	TMW1-13-07-15(7-8)	TMW3-13-07-15(6-8)
Analyte	Unrestricted		Groundwater	4.5	3.5	5	7-8	6-8
Analyte	Use SCO	Commercial SCO	SCO	152526-01	152526-02	152535-01	152971-11	152971-13
		300	300	6/18/2015	6/19/2015	6/22/2015	7/13/2015	7/13/2015
Lead	63	1000	450	31.6	5.7	71.4 A	19.6 J	104 J A

		Restricted	Protection of	GM-MW-16A-13-07-15(4-8)	TP4-13-07-15(2.5)	TMW5-14-07-15(2-4)	TMW7-14-07-15(4-6)
Analyte	Unrestricted	Commercial	Groundwater SCO	4-8	2.5	2-4	4-6
Analyte	Use SCO			152971-14	152971-15	152977-01	152977-03
		300		7/13/2015	7/13/2015	7/14/2015	7/14/2015
Lead	63	1000	450	15.6 J	45.1 J	68.9 J A	7.2 J

Note

A = Exceeds Unrestricted Use SCO

B = Exceeds Commercial Use SCO

C = Exceeds Protection of Groundwater SCO

Units in milligrams per killigram (mg/kg) or parts per million (ppm)

Soil cleanup objectives (SCOs) are as referenced in 6 NYCRR Part 375-6, Remedial Program Cleanup Objectives, dated December 14, 2006, as supplemented by CP-51 dated October 21, 2010.

J = Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than the method detection limit. The concentration given is an approximate value.

TMW3-13-07-15(6-8)	Sample ID
6-8	Sample Depth in feet below ground surface
152971-13	Laboratory Sample ID
7/13/2015	Sample Collection Date (mm/dd/yyyy)

Table 5 118 Petten Street Rochester, New York Site No: C828130

Summary of Detected Volatile Organic Compounds Groundwater Samples

	TOGS 1.1.1 Groundwater	TMW1-14-07-15	TMW2-14-07-15	TMW3-14-07-15	GM-MW-16A-14-07-15	TMW5-14-07-15	TMW6-14-07-15	TMW7-14-07-15	TMW8-14-07-15	TMW9-14-07-15	TMW10-14-07-15
Compound	Standard or Guidance	152971-02	152971-03	152971-04	152971-05	152971-06	152971-07	152971-08	152971-09	152971-10	152971-16
	Value	7/14/2015	7/14/2015	7/14/2015	7/14/2015	7/14/2015	7/14/2015	7/14/2015	7/14/2015	7/14/2015	7/14/2015
Acetone	50	U	U	U	9.01 J	11.6	U	7.97 J	U	U	U
Benzene	1	2.1 X	U	U	5.07 X	23.1 X	U	2.15 X	U	U	U
Cyclohexane	NS	34.5	U	U	18.3	73.2	U	U	U	U	U
Ethylbenzene	5	U	U	U	4.74	48.1 X	U	U	U	U	U
Isopropylbenzene	5	2.86	U	U	1.32 J	15.0 X	U	U	U	U	U
Xylenes (mixed)	5	3.58 J	U	U	12.94 J X	9.44 J X	U	1.12 J	U	U	U
Methylcyclohexane	NS	12.2	U	U	20.5	65.8	U	U	U	U	U
Toluene	5	1.75 J	U	U	2.84	5.35 X	U	U	U	U	U
trans-1,3-Dichloropropene	0.4	U	U	U	U	1.63 J X	U	U	U	U	U
Total VOCs		56.99	U	U	74.72	253.22	U	11.24	U	U	U
TICs ⁽¹⁾		272	U	U	246	1470	U	29.9	U	U	U
Total VOCs and TICs		328.99	U	U	320.72	1723.22	U	41.14	U	U	U

Notes:

U = Not Detected

J = Estimated value

X = Exceeds TOGS 1.1.1 Groundwater Standard or Guidance Value

All measurements in micrograms per liter or parts per billion (µg/l or ppb)

VOC = Volatile Organic Compound

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

(1) Refer to the analytical laboratory report for individual TICs detected and associated flags.

TMW3-13-07-15	Sample ID
152971-13	Laboratory Sample ID
7/14/2015	Sample Collection Date (mm/dd/yyyy)

Table 6 118 Petten Street Rochester, New York Site No: C828130

Summary of Detected Volatile Organic Compounds in mg/kg or ppm Field Blank and Trip Blank Samples

	Samples				
Compound	FB-06-19-2015	FB-14-07-15	Trip Blank		
Compound	152526-03	152971-01	152971-17		
	6/19/2015	7/14/2015	7/14/2015		
Total VOCs	U	U	U		
Total TICs ⁽¹⁾	0.00617	U	U		
Total VOCs and TICs ⁽¹⁾	0.00617	U	U		

Note

U = Not Detected

Units in micrograms per liter (µg/l) or parts per billion (ppb)

(1) Refer to the analytical laboratory report for individual TICs detected and associated flags.

VOC = Volatile Organic Compound

TIC = Tentatively Identified Compound

FB-14-07-15	Sample ID
152971-13	Laboratory Sample ID
7/14/2015	Sample Collection Date (mm/dd/yyyy)

Table 7 118 Petten Street Rochester, New York

Site No: C828130

Summary of Detected Semi-Volatile Organic Compounds in mg/kg or ppm **Field Blank Samples**

	FB-06-19-2015	FB-14-07-15		
Compound	152526-03	152971-01		
	6/19/2015	7/14/2015		
Total SVOCs	U	U		
Total TICs ⁽¹⁾	0.0047	U		
Total SVOCs and TICs ⁽¹⁾	0.0047	U		

Note

U = Not Detected

Units in micrograms per liter (μ g/I) or parts per billion (ppb)

(1) Refer to the analytical laboratory report for individual TICs detected and associated flags.

SVOC = Semi-Volatile Organic Compound

TIC = Tentatively Identified Compound

	FB-14-07-15	Sample ID
	152971-13	Laboratory Sample ID
7/14/2015		Sample Collection Date (mm/dd/yyyy)

Table 8 118 Petten Street Rochester, New York Site No: C828130

Summary of Lead Concentrations Field Blank Samples

	Sample ID			
Analyta	FB-06-19-2015	FB-14-07-15		
Analyte	152526-03	152971-01		
	6/19/2015	7/14/2015		
Lead	U	U		

Note

U = Not Detected

Units in micrograms per liter ($\mu g/I$) or parts per billion (ppb)

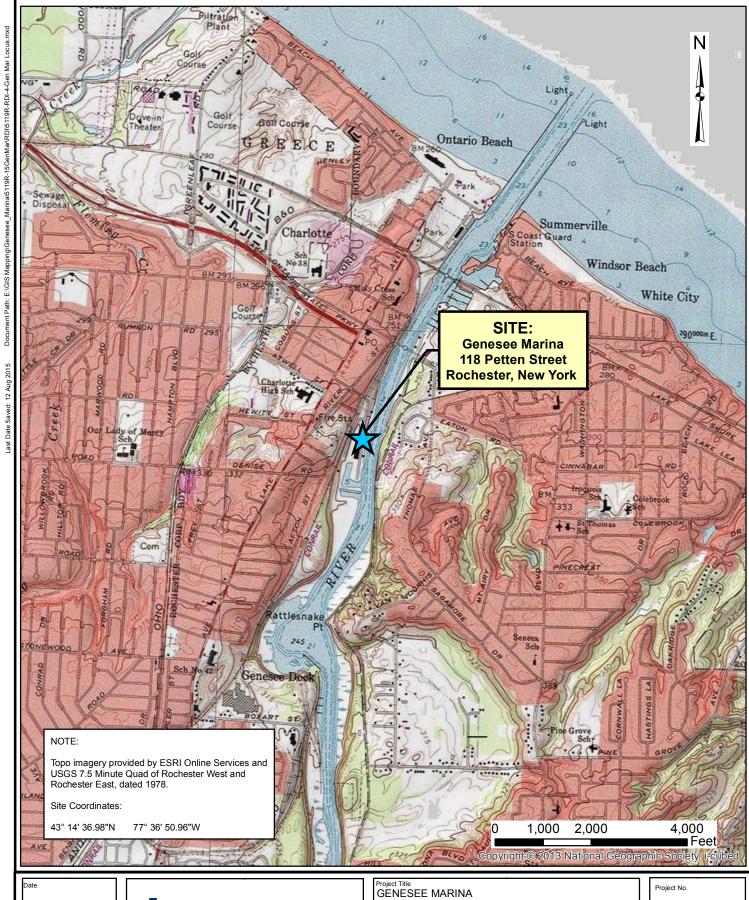
FB-14-07-15	Sample ID
152971-13	Laboratory Sample ID
7/14/2015	Sample Collection Date (mm/dd/yyyy)

FIGURES

REMEDIAL DESIGN INVESTIGATION

118 PETTEN STREET,
ROCHESTER, NY

AUGUST 2015 (Revised April 2016)



08-12-2015

rawn By

ANM

AS NOTED

dayDAY ENVIRONMENT

DAY ENVIRONMENTAL, INC.

Environmental Consultants Rochester, New York 14606 New York, New York 10170 Project Title
GENESEE MARINA
118 PETTEN STREET
ROCHESTER, NEW YORK
(NYSDEC SITE No. C828130)

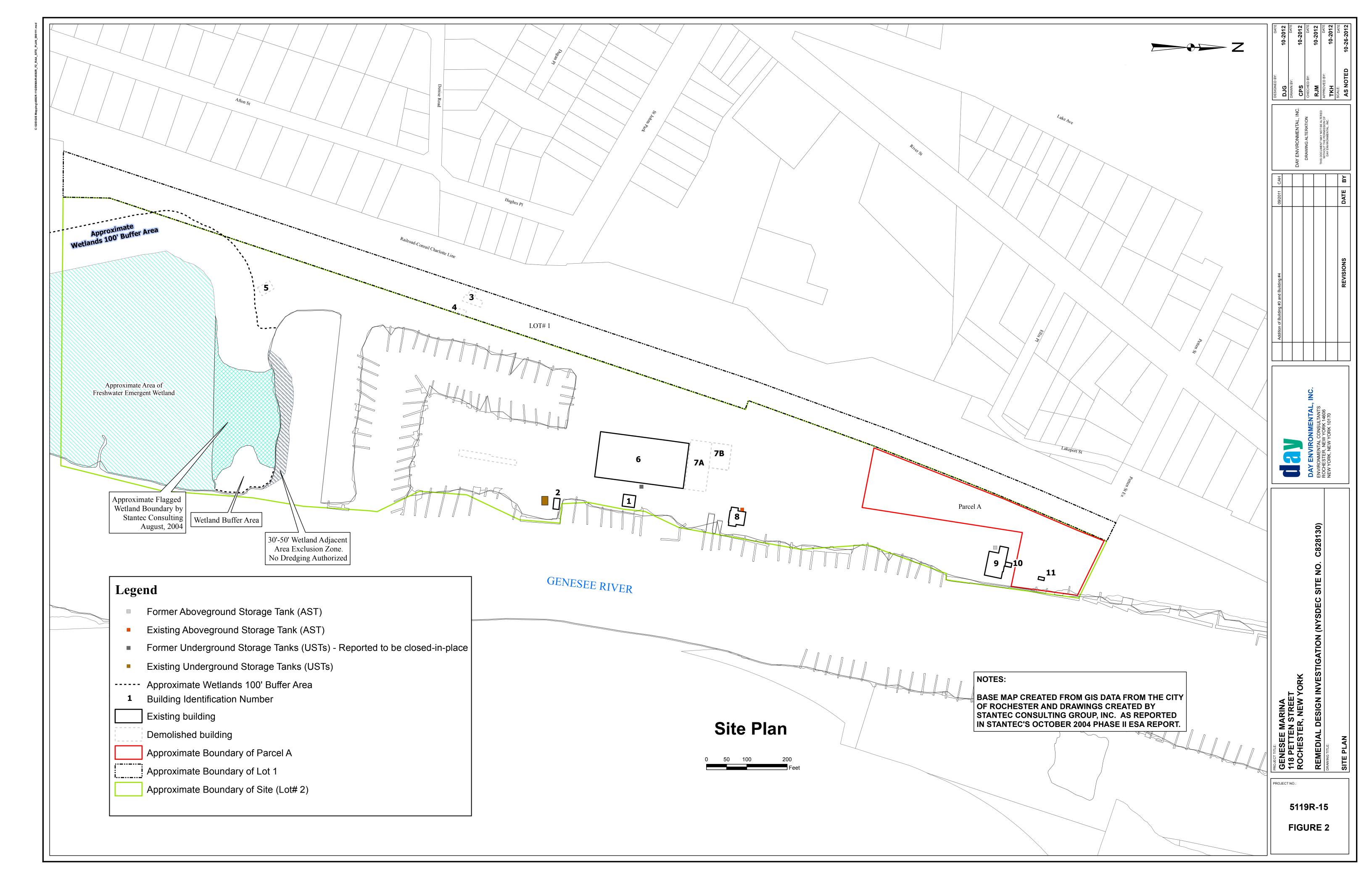
REMEDIAL DESIGN INVESTIGATION

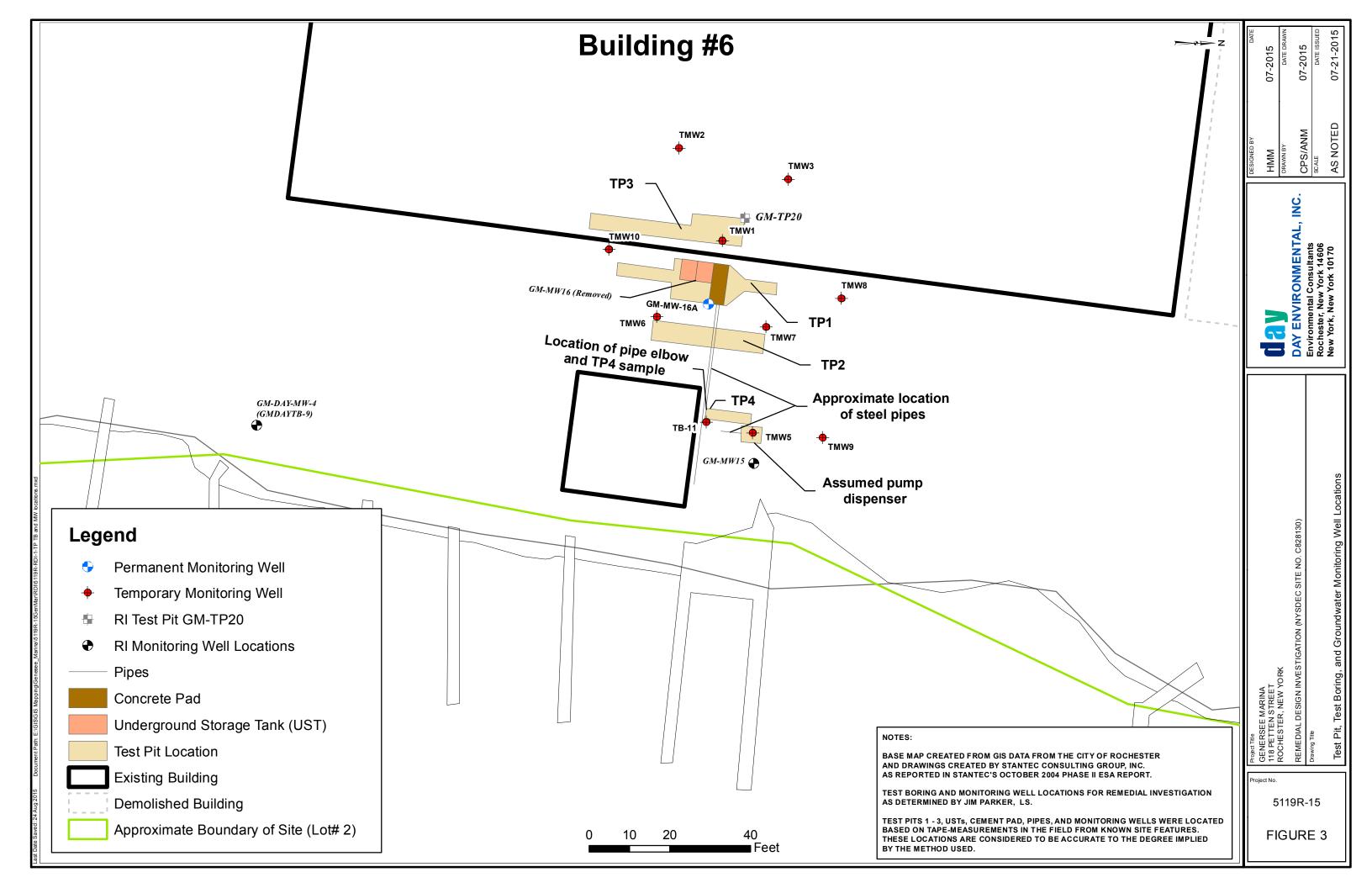
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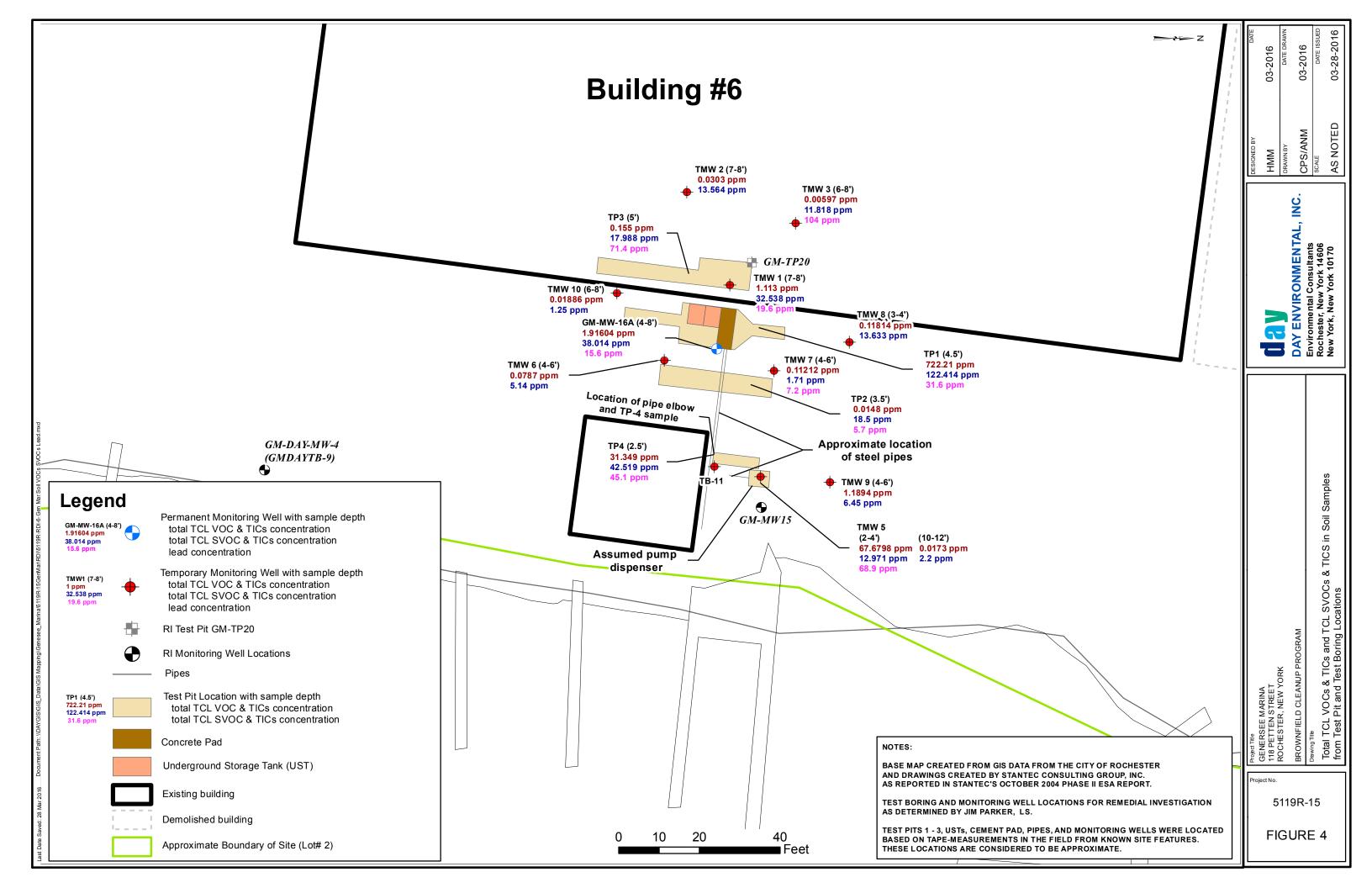
Project Locus Map

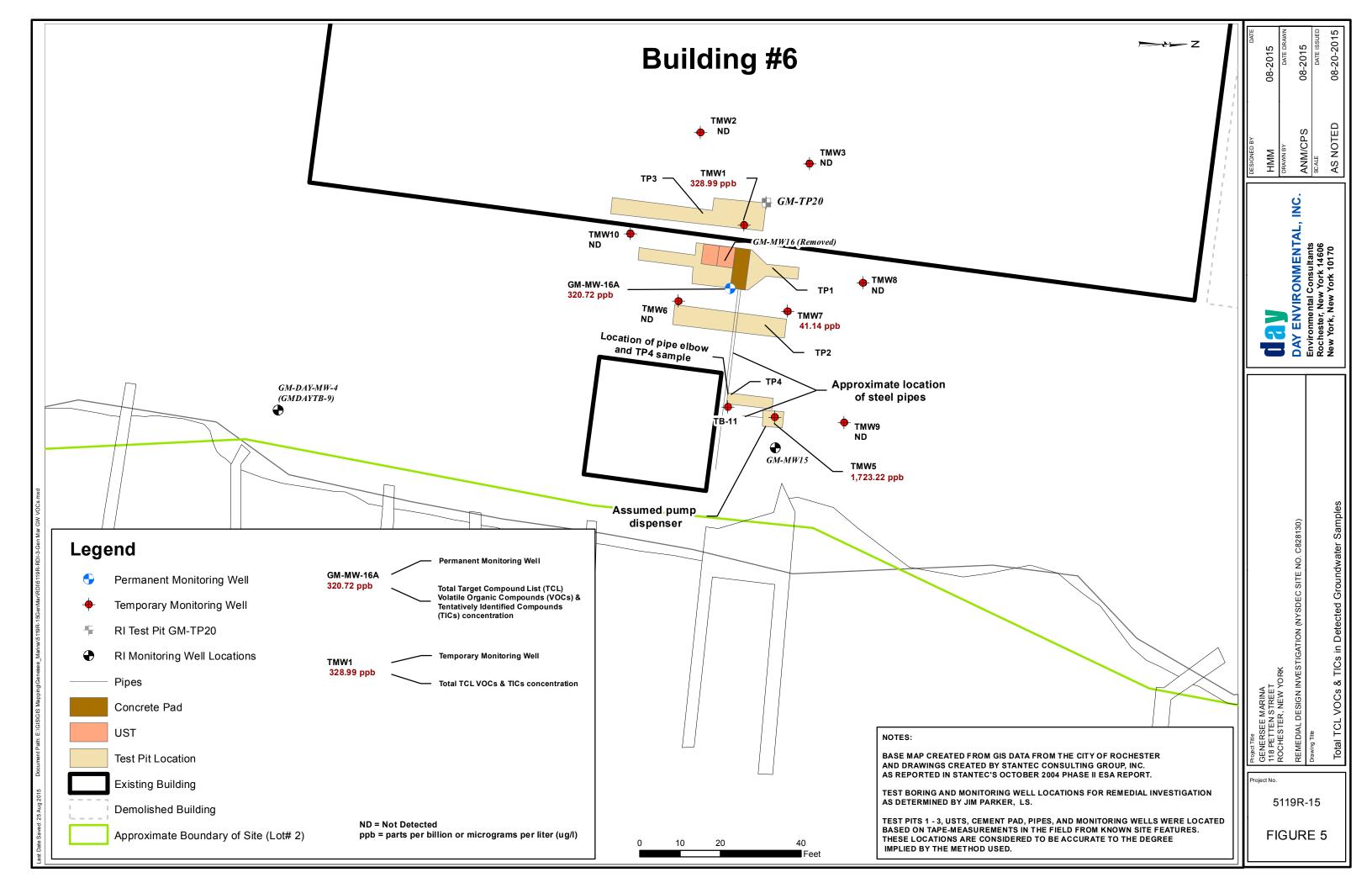
5119R-15

FIGURE 1









APPENDIX A

REMEDIAL DESIGN INVESTIGATION

118 PETTEN STREET,
ROCHESTER, NY

August 2015 (Revised April 2016)

day							ENVIRONMENTAL CONSULTANTS
DAY EN	VIRONMEN	ITAL, INC.					AN AFFILIATE OF DAY ENGINEERING, P.C.
Project #:		5119R-15					
Project Ad	ldress:	118 Petten S	Street				TEST PIT TP1
		Rochester, N	NY		Date:	6/18/2015 and 6/19/2015	Page 1 of 1
DAY Repr	esentative:	Heather Mcl			Test Pit Depth:	6 ft	
Contractor:			larina (Client)	<u>) </u>	Depth to Water:	~4.9 ft	
Equipment	:	Case 5800					
Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)		Sample Descr	ription	Notes
	Range from 0.0 to 450, highest PID readings obtained in location of black stained sand by USTs, PID readings decreasing with increasing distance from USTs	from	£ 5	A holis			First
	f blac	Sample TP1-06-18-2015 collected/submitted to laboratory was collected from material removed from approximate location near northern UST at an approximate depth of 4 ft bgs.	Max = 681 (black stained sand approximately 4 ft. bgs. in location of north UST), maximum PID headspace in north portion of test pit = 4.5, maximum PID headspace in south portion of test pit = 47.1	Asphalt			Final approximate dimensions of test pit:
1-	ion o)ST (tion c 5, m?	Brown, Sand and Gravel, FILL, tra	ace Wood, trace F	Brick, trace Shingles, wet	Length: 35 feet
	ocati	vas c	locat = 4.77.1				Width: 3 feet to 10 feet
	d in l	ory w	s. in st pit it = 4				Depth: maximum depth of 6 feet
2-	taine ith in	oorat ear r ogs.	t. bg: of te: est p	3" asphalt-pavement layer in south	h portion of test p	pit	
	s obt	to lak ion n 4 ft b	ly 4 f rtion of te				Two USTs identified approximately 8 to 17 ft. north of south test pit wall. Top of USTs located approximately 4.5 ft bgs.
	ading reasi	tted locati th of	nate h por				Two concrete pads (2 ft. x 3 ft. x 0.8 ft. thick) located above USTs,
3-	J rea decr USTs	ubmi nate I dept	proxir nort				removed during excavation Concrete slab located to north of USTs, top of concrete slab
	st PII	ted/s roxirr mate	dapp ce in sou				approximately 4 ft. bgs.
	ighe	appr appr proxir	sand dsparace ir	Fire Sand Ell Latained black los	posted shave and around LICTs		Wood beams noted on east portion opposite USTs, oriented north-south.
4-	50, h PID	15 cc from app	ined head idspa	Fine Sand FILL, stained black, loc	Cated above and a	around USIS	south.
	to 44 STs,	8-20	k sta PID	wet			
_	0.0 ر by U	06-1. remo	(blac mum PIC				Petroleum-type odor noted: increasing near UST locations
5-	from	TP1-	681 (naxir				I dividuit type dust noted. Increasing that do the season.
	ange red s	mate	ax = ST), r				
	stair	San	Ξ̈́				
6-		'					7
		'			End of Test	ł Pit	
7-		'					
		'					
		'					
8-		'					
		'					
		'					
9-		'					
		'					
		'					
10-		'					
		'					
11-							

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) ft. bgs. = feet below ground surface
5) NA = Not Available or Not Applicable

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

12-

TEST PIT TP1

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

www.dayenvironmental.com

day DAY ENV	/IRONMEN	TAL, INC.					ENVIRONMENTAL CONSULTANTS AN AFFILIATE OF DAY ENGINEERING, P.C.				
Project #: Project Ad	dress:	5119R-15 118 Petten Rochester,			Date:	6/19/2015	TEST PIT TP2 Page 1 of 1				
DAY Repr		Heather Mc			Test Pit Depth:	~5.2 ft					
Contractor: Equipment		Case 5800	arina (Client)		Depth to Water:	~5 ft					
			· 6		•						
Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)		Sample Desc	ription	Notes				
1-	Increasing PID reading with depht of excavation.	Sample TP2-06-19-2015 was collected from material located below steel pipes at approximate depth of 3.5 ft. bgs.	= 53.5 (taken from base of excavation, north Max PID reading in south portion of test pit = 47.2	Asphalt Brown, Sand and Gravel FILL, da Asphalt Brown, Sand and Gravel FILL, da		ed at 1.5 ft. bgs. in north portion of test pit	Final approximate dimensions of test pit: Length: 25 feet Width: 3 feet Depth: maximum depth of 5.2 feet				
	asing l	sollec	from ding i	Asphalt			Petroleum odor.				
	Increa	s was appro	(taken ID rea 47	Black, Sand and Gravel FILL, sor	me bricks		Metal removed (28" long) from location of electrical line on east wall.				
3-	0.7.6.	9-2015 oes at	53.5 Max P				Two apparent rubber water lines (cut off) identified.				
4-	Ranged from 0.0 to 7.6.	Sample TP2-06-19 below steel pip	Max PID reading = portion of test pit). It	Blackish-grey, Sand FILL, wet			Two 3" steel pipes (3 ft. bgs.) located in line (i.e., east-west configuration) with concrete slab of TP1, approximately 15 feet north of south wall of TP2.				
					End of test	pit.					
6-											
7-											
8-											
9-											
10-											
11-											
12-											
Notes:	2) Stratification	n lines represe s are reference et below groun	nt approximate ed to a benzen d surface	boundaries. Transitions may be gradu	ıal.	s may occur due to seasonal factors and other cor sing a MiniRae 2000 equipped with a 10.6 eV lam					
1563 LYEL	L AVENUE						420 LEXINGTON AVENUE, SUITE 300				
(585) 454- FAX (585)		JKK 14606				www.dayenvironmental.com	NEW YORK, NEW YORK 10170 (212) 986-8645 FAX (212) 986-8657				

day DAY ENV	/IRONMEN	TAL, INC.					ENVIRONMENTAL CONSULTA AN AFFILIATE OF DAY ENGINEERING,				
Project #: Project Ad DAY Repre Contractor: Equipment:	dress: esentative:	5119R-15 118 Petten S Rochester, N Heather McL Genesee Ma Case 5800	NY Lennan		Date: Test Pit Depth: Depth to Water:						
			PID Headspace (ppm)		Sample Descr	iption	Notes				
Depth (ft)	PID Reading (ppm)	Samples Collected									
1- 2- 3- 4- 5- 6- 7- 10- 11-	Range from 0.8 to 8.7. Maximum of 8.7 obtained from 4 ft. bgs. in north portion of fest pit (i.e., opposite concrete slab of TP1)	Sample TP3-08-22-2015 was collected from location opposite concrete slab observed in Test Pit TP1 at an approximate depth of 5 ft bgs.	Maximum of 9.7, located in north portion of test pit (i.e., opposite concrete slab of TP1) at approximate depth of 4.5 ft. bgs.	Dark brown, coarse Sand, mediunlittle Concrete, Rebar, Wood Cl Blackish brown Sand, little fine GrAsphaltlittle Brick some Asphaltsome fine to medium Gravel, w	hips, Brick, Wires, (Concrete organics/wood chunks, moist	Final approximate dimensions of test pit: Length: 27 feet Width: 3 feet to 7 feet Depth: maximum depth of 5 feet Two concrete pads in test pit approximately 2 ft. bgs., each approximately 5 ft x 3.8 ft, 1 ft thick. One concrete pad removed during excavation, other remained due to proximity of building w				
Notes:						s may occur due to seasonal factors and other cor	conditions.				
		s are reference et below ground	ed to a benzene d surface	boundaries. Transitions may be gradu s standard measured in the headspace		sing a MiniRae 2000 equipped with a 10.6 eV lam	amp. TEST PIT TP3				
1563 LYEL	L AVENUE ER, NEW YO 0210					www.dayenvironmental.com	420 LEXINGTON AVENUE, SUIT NEW YORK, NEW YORK ((212) 986- FAX (212) 996-	10170 8645			

day DAY ENV	/IRONMEN	TAL, INC.						NMENTAL CONSULTANTS DAY ENGINEERING, P.C.		
Project #:		5119R-15					TEST PIT TP4			
Project Ad	dress:	118 Petten	Street							
5.07.5		Rochester,		Date		7/13/2015	Page	1 of 1		
DAY Repr Contractor:		Heather Mc	Lennan arina (Client)		Pit Depth: th to Water:	5 ft bgs ~4 ft. bgs.				
Equipment		Case 5800	uu (0)		ar to rrator.	- H. 2go.				
Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	s	Sample Desci	ription	Note	Notes		
	Range from 0.8 to 101, increasing with depth and at location of pipe elbow	Sample TP4-13-07-15(2.5) was collected from location beneath observed pipe elbow at an approximate depth of 2.5 ft bgs.	Maximum of 248, obtained from south portion of TP4 beneath pipe elbow approximately 2.5 ft. bgs. Maximum PID Headspace from central portio of test pit = 238 ppm, approximately 3 ft. bgs.	Brown, Sand and Gravel, FILL, moist			Final approximate dimensions of to Length: 10 feet	est pit:		
1-	id at lo	h obse	f TP4 I PID He mately				Width: 1.3 ft.			
	epth an	peneat t bgs.	irtion o imum pproxi				Depth: maximum depth of 5 feet			
2-	g with de oow	ocation I	south pc gs. Max 3 ppm, a				beptii. maximum deptii or 3 reet			
	creasin pipe ell	d from I	ad from 2.5 ft. b oit = 238							
3-	o 101, in	collecte	s, obtaine kimately o of test p				Black staining, petroleum-type odor obelow 3 ft. bgs.	observed throughout test pit		
4-	om 0.8 t	2.5) was atan ap	n of 248 v appro: ral portic							
	Range fr	3-07-15(; elbow	Maximur ipe elbor om cent	some fine to medium Gravel, wet						
5-		e TP4-13	9.4		End of Test	t Pit				
6-		Samp								
7-										
8-										
9-										
10-										
11-										
12-										
	Stratification PID reading	n lines represe gs are referenc	nt approximate ed to a benzer	boundaries. Transitions may be gradual.		s may occur due to seasonal factors and other cor sing a MiniRae 2000 equipped with a 10.6 eV lam				
	4) ft. bgs. = fe	et below groun vailable or Not	d surface				TEST PIT TP4			
1563 LYEL	L AVENUE		•				420 LE	XINGTON AVENUE, SUITE 300		
ROCHEST (585) 454-	TER, NEW Y 0210	ORK 14606					1	NEW YORK, NEW YORK 10170 (212) 986-8645		
FAX (585)						www.dayenvironmental.com		FAX (212) 986-8657		

da	ay								EN	IVIRONMENTAL CONSULTANTS
DAY	ENVIR	ONME	NTAL, II	NC.					AN AFFILIA	TE OF DAY ENGINEERING, P.C.
Project Project	ct #: ct Addres	ss:	5119R-		et		-		[Test Boring TMW1
	_		Roches				-	Ground Elevation: N/A Datum: N/A		Page 1 of 1
	Represer g Contra		H. McLe	ennan			-	Date Started: 7/13/2015 Date Ended: 7/13/2015 Borehole Depth: 12.0' Borehole Diameter: 2.25"		
	ling Met		Direct P	ush			-		ackfilled with	Cuttings
								Water Level (Date): 2.54 ft bTOC (7/14/15)		
Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description		Notes
								Brown, Sand and Gravel, moist (FILL)		
2	NA	S-1	0-4	12	NA	0.0	0.0			
							0.0	Dark Brown, Sand and Gravel, wet (FILL)		
5	NA	S-2	4-8	50	NA	0.7	0.0			
7							0.0	Black, stained Sand (FILL)		
,										
8							0.0			
9 10 11	NA	S-3	8-12	0	NA	NA	NA			
12								End of Test Boring @ 12.0'		
13 14 15										
16										
Notes:								ed. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions. ons may be gradual.		
								ons may be gradual. ured in the headspace above the sample using a MiniRae 2000 or PPB RAEequipped with a 10.6 eV lamp	o	
			able or No readings			l by maiet	ure			Test Boring TMW1
<u> </u>			readings below Top			. by moist	410			Test Dolling Hilliam
	YELL A'		ORK 14	606						420 LEXINGTON AVENUE, SUITE 300 NEW YORK, NEW YORK 10170
(585)	454-021	0	JAN 14	500						(212) 986-8645
FAX (585) 454	1-0825						www.dayenvironmental.com		FAX (212) 986-8657

da	ay ENVIRONMENTAL CONSULTANTS												
		ONME	NTAL, IN	NC.						AN AFFIL	ATE OF DAY ENGINEERING, P.C.		
Project Project	t #: t Addres	ss:	5119R-1 118 Pett		et						Test Boring TMW2		
DAY F	Represer	ntative:	Rochest H. McLe				•	Ground Elevation: N/A Date Started: 7/13/2015	Datum: N/A Date Ended: 7/13/2015		Page 1 of 1		
	g Contra		TREC					Borehole Depth: 12.0'	Borehole Diameter: 2.25"		- -		
Samp	ling Meth	nod:	Direct P	ush				Completion Method: Well Installed Water Level (Date): 1.09 ft bTOC		Backfilled with	n Cuttings		
Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Desc	ription		Notes		
				-		_	0.0	Brown, Sand and Gravel, damp (FILL)					
1 2	NA	S-1	0-4	65	NA	0.0	0.0						
4 5	NA	S-2	4-8	60	NA	0.0	0.0	Olive-Brown, Silty Clay, some Sand, trace Grave Brown, Sand and Gravel (FILL)	el (FILL)	_			
7							0.0	Black, Sand, some Gravel (FILL)		Petroleum-t <u>r</u>	ype Odor, Stained		
9							0.0						
10	NA	S-3	8-12	75	NA	0.0	0.0	Brown, Silty Sand (possibly FILL)					
							0.0						
12								End of Test Boring @	12.0'	-			
13								Zid di redi Zening G	12.0				
14													
15													
16													
Notes:								ed. Fluctuations of groundwater levels may occur due to ons may be gradual.	seasonal factors and other conditions.				
	3) PID re 4) NA = 1	eadings a Not Availa		ced to an t Applicab	isobutyle ole	ene standa	ard measu	red in the headspace above the sample using a MiniRa	e 2000 or PPB RAEequipped with a 10.6 eV	lamp.	Test Boring TMW2		
1563	6) ft bTO		pelow Top	of Casing	g						420 LEXINGTON AVENUE, SUITE 300		
ROCH	IESTER	, NEW Y	ORK 14	606							NEW YORK, NEW YORK 10170		
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da	IV								E	NVIRONMENTAL CONSULTANTS
	_	ONME	NTAL, II	NC.					AN AFFILI	ATE OF DAY ENGINEERING, P.C.
Project Project	t #: t Addres	ss:	5119R-1	ten Stre	et		-			Test Boring TMW3
DAY F	Represe		Rochest H. McLe				-	Ground Elevation: N/A Datum: N/A Date Started: 7/13/2015 Date Ended: 7/13/2015		Page 1 of 1
	g Contra		TREC	mian			-	Borehole Depth: 12.0' Borehole Diameter: 2.25"		-
Sampl	ling Meth	hod:	Direct P	ush			-		Backfilled with	n Cuttings
		1	1		1	1		Water Level (Date): 1.15 ft bTOC (7/14/15)		
Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description		Notes
							0.0	Brown, Sand and Gravel, damp (FILL)		
2	NA	S-1	0-4	75	NA	0.0	0.0			
4							0.0			
5 6 7	NA	S-2	4-8	55	NA	0.0	0.0	Sand and Gravel, wet (FILL) Brown-Gray, SANDtrace Wood	Black Staini	ng 6 - 6.5'
8							0.0			
10	NA	S-3	8-12	65	NA	0.0	0.0	Gray, CLAY, some Silt, some Sand, wet, loose		
11							0.0	Vegetation and Wood		
								End of Test Boring @ 12.0'		
13										
15 16										
Notes:								red. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions. ons may be gradual.		
	3) PID re 4) NA = I 5) Heads	eadings a Not Availa space PID		ced to ar t Applical may be i	n isobutyle ble influenced	ene standa	ard meas	ons may be gradual. ured in the headspace above the sample using a MiniRae 2000 or PPB RAEequipped with a 10.6 eV la	mp.	Test Boring TMW3
	YELL A		1							420 LEXINGTON AVENUE, SUITE 30
(585)	IESTER 454-021 585) 454	0	ORK 14	606				www.dayenvironmental.com		NEW YORK, NEW YORK 10170 (212) 986-8645 FAX (212) 986-8657

DAY		MMC	NTAL, IN	IC.							ENVIRONMENTAL CONSULTANTS AN AFFILIATE OF DAY ENGINEERING, P.C.
Projec Projec	t #: t Addres		5119R-1 118 Pett		et		•				Test Boring GM-MW-16A
DAY R	Represen Gentracting Meth	ntative: ctor:	H. McLe TREC Direct Po	nnan			-		Datum: N/A Date Ended: 7/13/2 Sorehole Diameter: 2.25" Backfilled with Grout	2015 Backfilled with 0	Page 1 of 1
Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description			Notes
							0.0	Dark Gray, Sand and Gravel (FILL)			
1							0.0				
2	NA	S-1	0-4	30	NA	14.6	7.7				
3							0.0				
4							0.0				
5							0.0	Dark Brown to Black, Sand, wet (FILL)			
6	NA	S-2	4-8	30	NA	0.0	0.0				
7							0.0				
8							0.0				
9							0.0				
10	NA	S-3	8-12	65	NA	0.0	0.3	Brown to Black, SILT, some Clay, some Sand			
11							0.0	Organics			
12								End of Test Boring @ 12.0'			
13											
14											
15											
16											
Notes:								d. Fluctuations of groundwater levels may occur due to seasona as may be gradual.	al factors and other conditions.		
	4) NA = N 5) Heads	Not Availa space PID	able or Not D readings	Applicable may be in	le nfluenced			ed in the headspace above the sample using a MiniRae 2000 or	PPB RAEequipped with a 10	6 eV lamp.	Test Boring GM-MW-16A
1563 L [*] ROCH (585) ⁴	YELL AV	VENUE , NEW Y 0	ORK 146		<u> </u>						420 LEXINGTON AVENUE, SUITE 300 NEW YORK, NEW YORK 10170 (212) 986-8645

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da		ONMEI	NTAL, IN	IC.						ENVIRONMENTAL CONSULTANTS
Project Project	t #: t Addres	SS:	5119R-1	en Stree	et					Test Boring TMW5
Drilling	Represer g Contra ling Meth	ctor:	H. McLe TREC Direct P	nnan			•	Ground Elevation: N/A Datum: N/A	Backfilled with	Page 1 of 1
Oamp	ing wea	ilou.	Directi	usii			•	Water Level (Date): 3.53 ft bTOC (7/14/15)	Dackilled with	Toutings
Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description		Notes
1	NA	S-1	0-4	40	NA	284	3.1 7.9	Brown-Red, Sand and Gravel (FILL)		
3							19.6 270	Dark Brown to Black, Sand and Gravel, moist (FILL)		
5	NA	S-2	4-8	100	NA	2.7	25 6.0 6.3	Brown-Gray, CLAY, some Silt, some Sand, wet, very loose	Stained, Pet	roleum-type Odor
7							1.7 1.3 0.5			
9	NA	S-3	8-12	100	NA	2.4	1.8 1.5			
11							0.8 0.6 0.8			
								End of Test Boring @ 12.0'		
13										
14										
16										
Notes:								ed. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.		
	3) PID re 4) NA = I 5) Heads	eadings a Not Availa space PIE		ced to an t Applicab may be in	isobutyle ile nfluenced	ene standa	ard meas	ons may be gradual. ured in the headspace above the sample using a MiniRae 2000 or PPB RAEequipped with a 10.6 eV la	amp.	Test Boring TMW5
	YELL A'		ORK 14	606						420 LEXINGTON AVENUE, SUITE 30 NEW YORK, NEW YORK 1017

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Project Project	ct #: ct Addres		5119R-1	ten Stre	et		-			Test Boring TMW6
DAY F	Represer	ntative:	Rochest H. McLe				-	Ground Elevation: N/A Datum: N/A Date Started: 7/13/2015 Date Ended: 7/13/2015		Page 1 of 1
	g Contra		TREC				-	Borehole Depth: 12.0' Borehole Diameter: 2.25"		- -
Samp	ling Meth	hod:	Direct P	ush			-	Completion Method: ■ Well Installed □ Backfilled with Grout □ Water Level (Date): 1.395 ft bTOC (7/14/15)	Backfilled with	h Cuttings
Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description		Notes
							1.3	Light Brown, Sand and Gravel, damp (FILL)		
1	NA	S-1	0-4	75	NA	1.3	0.2			
2	NA .	3-1	0-4	75	IVA	1.3	0.2	Dark Gray to Black, Sand, moist (FILL)		
3							0.0			
5							0.5	wet	Petroleum-ty	ype Odor throughout
6	NA	S-2	4-8	75	NA	1.0	0.2			
7							0.1	Black, Gravel, wet (FILL)	Stained	
8							0.4	Dark Gray to Black, coarse Sand (FILL)	_	
10	NA	S-3	8-12	75	NA	0.8	0.5		-	
11							0.5	Dark Gray-Brown, CLAY, some Silt, loose, wet		
12							0.0			
13								End of Test Boring @ 12.0'		
14										
15										
16										
Notes:								ted. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions. ons may be gradual.		
	3) PID re4) NA = I5) Heads	eadings a Not Availa space PID		ced to ar t Applical may be i	n isobutyle ble influenced	ene stand	ard meas	ured in the headspace above the sample using a MiniRae 2000 or PPB RAEequipped with a 10.6 eV la	amp.	Test Boring TMW6
1563 L ROCH (585)	YELL A	VENUE , NEW Y 0	ORK 14		<u> </u>			www.dayenvironmental.com		420 LEXINGTON AVENUE, SUITE 30 NEW YORK, NEW YORK 10170 (212) 986-8645 FAX (212) 986-8657

da		ONMEI	NTAL, IN	NC.						NVIRONMENTAL CONSULTANTS
Project Project	t #: t Addres	SS:	5119R-1 118 Pett	ten Stree	et					Test Boring TMW7
DAY F			Rochest					Ground Elevation: N/A Datum: N/A		Page 1 of 1
			H. McLe	nnan				Date Started: 7/13/2015 Date Ended: 7/13/2015 Borehole Depth: 12.0' Borehole Diameter: 2.25"		-
	g Contra ling Meth		Direct P	uch					Backfilled with	- Cuttings
Camp	iiig ivicu	iou.	Directi	uon			•	Water Level (Date): 1.48 ft bTOC (7/14/15)	Dackinica Witi	r Outlings
Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description		Notes
							0.6	Gray-Black, Sand and Gravel (FILL)		
1							1.7	Stay State, Gardana State, (1.12)		
2	NA	S-1	0-4	85	NA	12.7				
3							3.7			
							4.2			
4							2.5	Gray with Black Speckles, Sand, wet (FILL)		
5										
							3.9			
6	NA	S-2	4-8	65	NA	2.5				
							2.6	Black, Gravel (FILL)		
7										
							1.0			
8										
9										
					l					
10	NA	S-3	8-12	30	NA	2.5	1.1			
							1.5			
11								Dark Gray, coarse Sand, wet (FILL)		
12								End of Test Boring @ 12.0'		
13										
14										
15										
16										
Notes:	1) Water	r levels w	ere made	at the tim	es and u	nder cond	litions stat	Led. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.	1	
								ons may be gradual.	mn	
			ire reteren able or No			ne standa	aru meast	ured in the headspace above the sample using a MiniRae 2000 or PPB RAEequipped with a 10.6 eV lan	mp.	
			readings			by moist	ure			Test Boring TMW7
			below Top	of Casing	9					<u> </u>
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	_	ONMEI	NTAL, II	NC.					AN AFFILI	ATE OF DAY ENGINEERING, P.C.	
Project Project	ct #: ct Addres	ss:	5119R-1	ten Stre	et		•			Test Boring TMW8	
DAY		ntativa	Rochest H. McLe				-	Ground Elevation: N/A Datum: N/A Date Started: 7/13/2015 Date Ended: 7/13/2015		Page 1 of 1	
	g Contra		TREC	minan			•	Borehole Depth: 12.0' Borehole Diameter: 2.25"		-	
Samp	ling Meth	hod:	Direct P	ush					ackfilled with	n Cuttings	
	1		1				1	Water Level (Date): 1.80 ft bTOC (7/14/15)			
Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description		Notes	
							0.0	Black and Brown, Sand and Gravel (FILL)			
2	NA	S-1	0-4	26	NA	0.8	0.0				
3							0.0	Brown, medium Sand, some silt, some Clay, moist (FILL)			
5 6 7	NA	S-2	4-8	9	NA	0.8	0.0	4" coarse Sand,, moist to wet			
9 10	NA	S-3	8-12	13	NA	0.2	0.0	Silt and Clay content increasing, wet			
12								Fadata and a same			
13 14 15								End of Test Boring @ 12.0'			
Notes:	1) Wate	r levels w	ere made	at the tim	nes and u	nder cond	litions stat	ed. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.			
	 Stratif PID re NA = I Heads 	fication lii eadings a Not Availa space PIE	nes repres	ent appro ced to ar t Applical may be i	oximate be isobutyle ole nfluenced	oundaries ene standa	. Transiti ard measi	ons may be gradual. ured in the headspace above the sample using a MiniRae 2000 or PPB RAEequipped with a 10.6 eV lam	p.	Test Boring TMW8	
1563 L	YELL A	VENUE								420 LEXINGTON AVENUE, SUITE 300	
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da		ONME	NTAL, IN	NC.						ENVIRONMENTAL CONSULTANTS
Projec	t #: t Addres	ss:	5119R-1		et		-			Test Boring TMW9
			Rochest	er, NY			•	Ground Elevation: N/A Datum: N/A		Page 1 of 1
DAY F	Represer	ntative:	H. McLe	nnan			-	Date Started: 7/13/2015 Date Ended: 7/13/2015		<u> </u>
Drilling	g Contra	ctor:	TREC				-	Borehole Depth: 12.0' Borehole Diameter: 2.25"		-
Sampl	ing Meth	nod:	Direct P	ush			-	Completion Method: ■ Well Installed □ Backfilled with Grout □ Water Level (Date): 2.22 ft bTOC (7/14/15)	Backfilled with	h Cuttings
Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description		Notes
		0,	0,	•			0.0	Brown, Sand and Gravel, moist to damp (FILL)		
2	NA	S-1	0-4	50	NA	3.5	0.0			
4										
						6.8	5.1	3" coarse Sand Seam	Petroleum-t	ype Odor
5										
١							1.2			
	NA	S-2	4-8	65	NA					
6							11			
							1.1			
7										
							0.6			
							0.2			
8									No Recovery	y, sleeve contained water
9										
10	NA	S-3	8-12	0	NA	NA	NA			
11										
40			<u> </u>	<u> </u>			<u> </u>			
12								End of Test Boring @ 12.0'		
13										
14										
15										
16										
Notes:	1) Water	r levels w	ere made	at the tim	es and ur	nder cond	litions stat	ted. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.	1	
								ons may be gradual.		
	3) PID re	eadings a	are referen	ced to an	isobutyle			ured in the headspace above the sample using a MiniRae 2000 or PPB RAEequipped with a 10.6 eV	lamp.	
			able or No D readings			by maist	uro			Test Boring TMW9
			below Top			Jy moist	u. 0			
	YELL A									420 LEXINGTON AVENUE, SUITE 30
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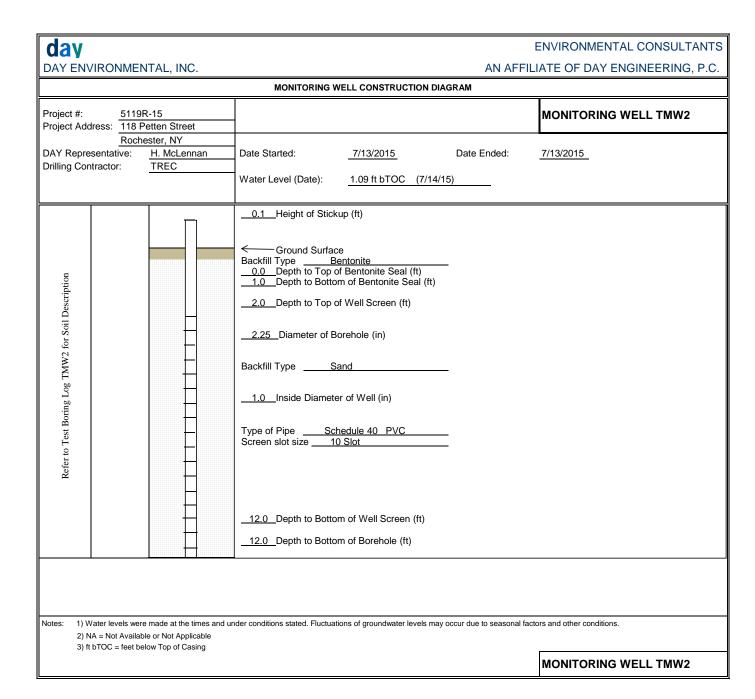
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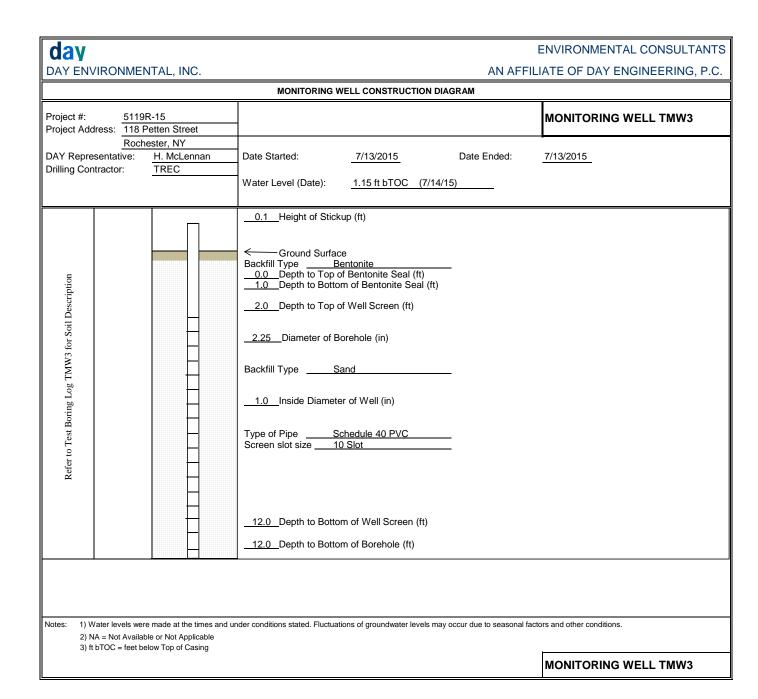
da									ENVIRONMENTAL CONSULTANTS
Project #: Project Address: DAY Representative: Drilling Contractor: Sampling Method:		ss: ntative:	5119R-15 118 Petten Street Rochester, NY		- - - -	Ground Elevation: N/A Datum: N/A Date Started: 7/13/2015 Date Ended: 7/13/2015 Borehole Depth: 12.0' Borehole Diameter: 2.25"	Test Boring TMW10 Page 1 of 1		
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
2	NA	S-1	0-4	50	NA	3.2	0.6	Brown, Sand and Gravel, moist (FILL)some Clay	
4 5 6	NA	S-2	4-8	50	NA	2.7	1.4	Gray, Sand, wet (FILL)	
9 10	NA	S-3	8-12	100	NA	2.5	0.8 0.4 0.2	Brown, PEAT, some Vegetation	
12 13 14 15							iti or -	End of Test Boring @ 12.0'	
1563 L ROCH (585)	Interest Interest								

DAY		ONME	NTAL, IN	IC.					ENVIRONMENTAL CONSULTANTS AN AFFILIATE OF DAY ENGINEERING, P.C.
Project Project	t #: t Addres	ss:	5119R-1		et		-		Test Boring TB11
DAY F	Rochester, NY DAY Representative: H. McLennan		-	Ground Elevation: N/A Datum: N/A Date Started: 7/13/2015 Date Ended: 7/13/2015	Page 1 of 1				
III	Contra		TREC				-	Borehole Depth: 12.0' Borehole Diameter: 2.25"	
Sampl	ing Meth	hod:	Direct P	ush			-	Completion Method:	dilled with Cuttings
Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1 2 3	NA	S-1	0-4	0	NA	NA	NA	Brown, Sand and Gravel (FILL)	
5 6 7 8	NA	S-2	4-8	8	NA	NA	NA		
9 10 11 11 12	NA	S-3	8-12	8	NA	NA	0.1		
13 14 15								End of Test Boring @ 12.0'	
Notes:								d. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions. ns may be gradual.	
	3) PID re	eadings a	re referen	ced to an	isobutyler			red in the headspace above the sample using a MiniRae 2000 or PPB RAEequipped with a 10.6 eV lamp.	
			able or Not readings			by moistu	re		Test Boring TB11
	6) ft bTO		below Top	of Casing	J				420 LEXINGTON AVENUE, SUITE 300
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DAY ENVIRONMENTAL, INC. AN AFFILIATE OF DAY ENGINEERING, P.C. MONITORING WELL CONSTRUCTION DIAGRAM								
Project #: 5119R-15 Project Address: 118 Petten Street	MONITORING W	ELL TMW1						
Rochester, NY DAY Representative: H. McLennan Drilling Contractor: TREC	Date Started: 7/13/2015 Date Ended: 7/13/2015 Water Level (Date): 2.54 ft bTOC (7/14/15)							
Refer to Test Boring Log TMW1 for Soil Description								
Notes: 1) Water levels were made at the times and u	under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.							
2) NA = Not Available or Not Applicable 3) ft bTOC = feet below Top of Casing MONITORING WELL TMW1								



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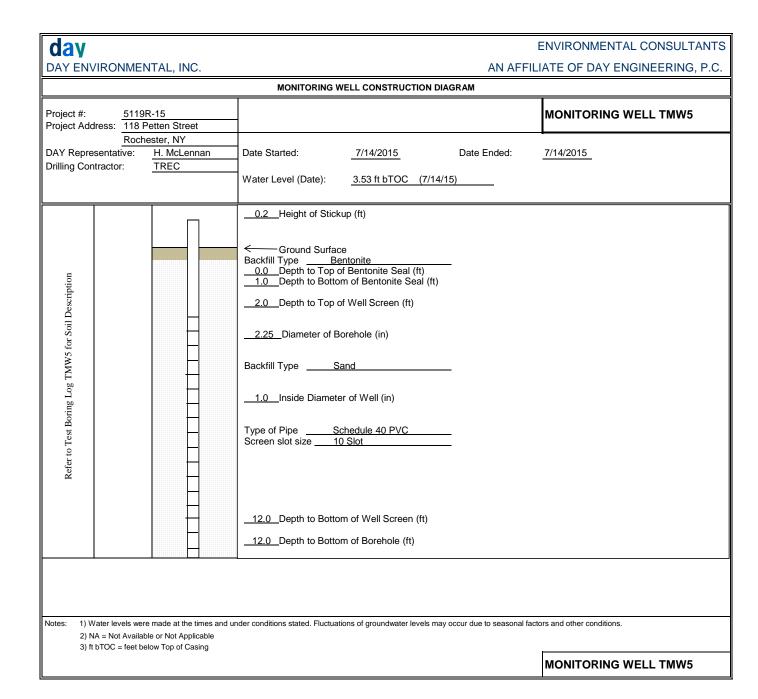
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	MONITORING WELL CONSTRUCTION DIAGRAM
Project #: 5119R-15 Project Address: 118 Petten Street	MONITORING WELL GM-MW-16A
Rochester, NY DAY Representative: H. McLennan Drilling Contractor: TREC	Date Started: 7/13/2015 Date Ended: 7/13/2015 Water Level (Date): 1.29 (7/14/2015)
Refer to Test Boring Log GM-MW-16A for Soil Description	Flush Mounted Roadbox 0.3 Depth to Top of Riser Pipe (ft) 0.3 Depth to Bottom of Cement Surface Patch (ft) Backfill Type Bentonite 0.3 Depth to Top of Bentonite Seal (ft) 1.0 Depth to Bottom of Bentonite Seal (ft) 2.0 Depth to Top of Well Screen (ft) Backfill Type Sand 1.0 Inside Diameter of Well (in) Type of Pipe Schedule 40 PVC Screen slot size 10 Slot
Notes: 1) Water levels were made at the times and u 2) NA = Not Available or Not Applicable 3) ft bTOC = feet below Top of Casing	under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.

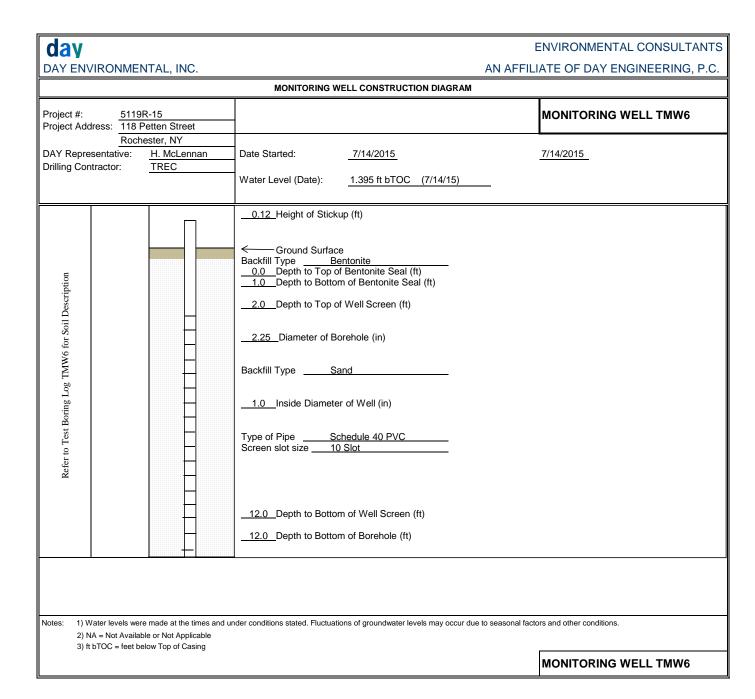
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MONITORING WELL CONSTRUCTION DIAGRAM								
Project #: 5119R-15 Project Address: 118 Petten Street	-	MONITORING WELL TMW7						
Rochester, NY DAY Representative: H. McLennan Drilling Contractor: TREC	Date Started: 7/14/2015 Date Ended: Water Level (Date): 1.48 ft bTOC (7/14/15)	7/14/2015						
Refer to Test Boring Log TMW7 for Soil Description								
Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions. 2) NA = Not Available or Not Applicable 3) ft bTOC = feet below Top of Casing MONITORING WELL TMW7								

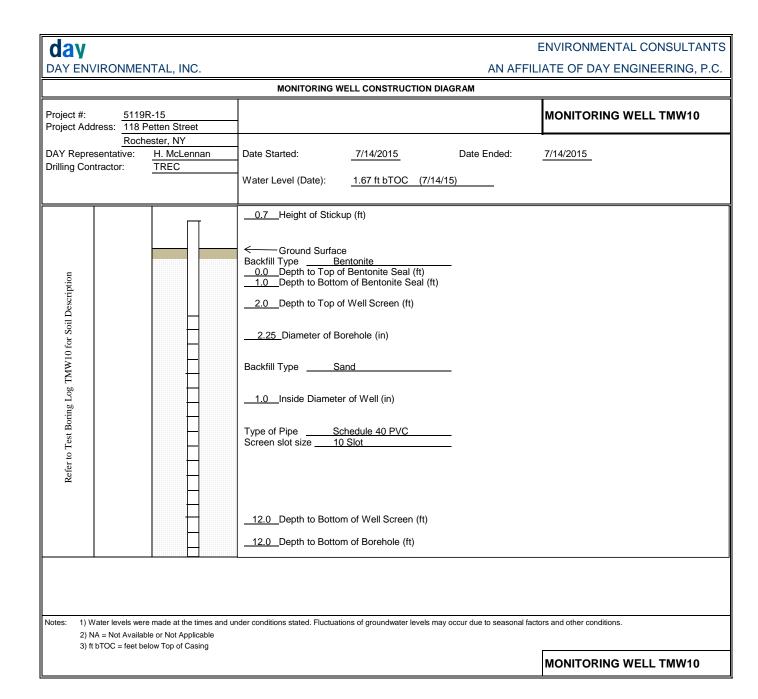
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MONITORING WELL CONSTRUCTION DIAGRAM									
Project #: 5119R-15 Project Address: 118 Petten Street	MONITORING WEI	L TMW8							
Rochester, NY DAY Representative: H. McLennan Drilling Contractor: TREC	Date Started: 7/13/2015 Date Ended: 7/13/2015 Water Level (Date): 2.54 ft bTOC (7/14/15)								
Refer to Test Boring Log TMW8 for Soil Description									
Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions. 2) NA = Not Available or Not Applicable 3) ft bTOC = feet below Top of Casing									
	MONITORING WEI	L TMW8							

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MONITORING WELL CONSTRUCTION DIAGRAM								
Project #: 5119R-15 Project Address: 118 Petten Street	-	MONITORING WELL TMW9						
Rochester, NY DAY Representative: H. McLennan Drilling Contractor: TREC	Date Started: 7/14/2015 Date Ended: Water Level (Date): 2.22 ft bTOC (7/14/15)	7/14/2015						
Refer to Test Boring Log TMW9 for Soil Description								
Notes: 1) Water levels were made at the times and u 2) NA = Not Available or Not Applicable 3) ft bTOC = feet below Top of Casing	inder conditions stated. Fluctuations of groundwater levels may occur due to seasonal fact	MONITORING WELL TMW9						

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APPENDIX B

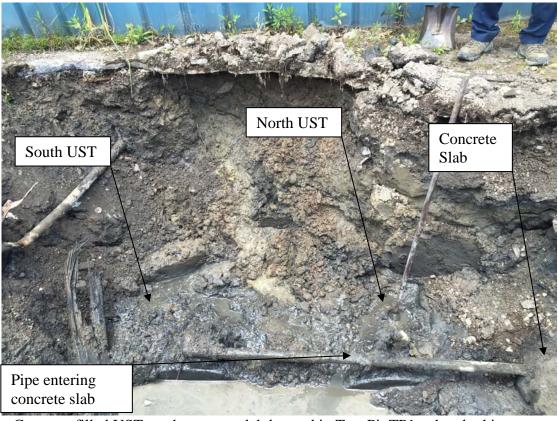
REMEDIAL DESIGN INVESTIGATION

118 PETTEN STREET,
ROCHESTER, NY

August 2015 (Revised April 2016)



Test Pit 1, taken looking west against east wall of Building 6



Concrete filled USTs and concrete slab located in Test Pit TP1, taken looking west



Test Pit TP2 taken looking north



Test Pit TP3 taken looking east



Pipe elbow



Assumed pipe dispenser location

APPENDIX C

REMEDIAL DESIGN INVESTIGATION

118 PETTEN STREET,
ROCHESTER, NY

August 2015 (Revised April 2016)

WELL TMW1

SECTION 1 - SITE INFORMATION						
SITE LOCATION: 118 Petten Street	JOB #: 5119R-15					
Rochester, NY	DATE: 7/14/15					
SAMPLE COLLECTOR(S): H. McLennan						
WEATHER CONDITIONS: Raining PID IN WELL (PPM): 3.2 LNAPL ND DNAPL ND						

SECTION 2 - PURGE INFORMATION						
DEPTH OF WELL [FT]: 11.60 (MEASURED FROM TOP OF CASING - T.O.C.)						
STATIC WATER LEVEL (SWL) [FT]: 2.54 (MEASURED FROM T.O.C.)						
DISTANCE FROM T.O.C. TO GROUND [FT]: 1.0						
SWL [FT]: 1.54 (MEASURED FROM GROUND)						
THICKNESS OF WATER COLUMN [FT]: 9.06 (DEPTH OF WELL - SWL)						
CALCULATED VOL. OF H ₂ O PER WELL CASING [GAL]: 0.37 CASING DIA.: 1"						
CALCULATED VOL. OF H_2O PER WELL CASING [GAL]: 0.37 CASING DIA.: 1" CALCULATIONS: CASING DIA. (FT) WELL CONSTANT(GAL/FT) CALCULATIONS $1''$ (0.0625) 0.041 0.063 $1''$ (0.1041) 0.063 0.1632 $3''$ (0.250) 0.380 0.6528 $4''$ (0.3333) 0.6528 $4''$ (0.375) 0.826 $6''$ (0.5000) 1.4688 $8''$ (0.666) 2.611						
CALCULATED PURGE VOLUME [GAL]: 1.1 (3 TIMES CASING VOLUME)						
ACTUAL VOLUME PURGED [GAL]: 3						
PURGE METHOD: Peristaltic Pump PURGE START: 13:34 END: 13:56						

SECTION 3 - SAMPLE IDENTIFICATION AND TEST PARAMETERS							
SAMPLE ID#	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)				
TMW1-14-07-15	7-14-15 / 15:31	Bailer	TCL VOCs + TICs				

SECTION 4 - WATER QUALITY DATA							
SWL (FT)	TEMP (°C)	pН	CONDUCTIVITY (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	ORP (mV)	VISUAL
2.57	19.61	6.18	0.886	N/M	5.52	-80	Gray/Turbid Petroleum-type Odor

WELL TMW2

SECTION 1 - SITE INFORMATION						
SITE LOCATION: 118 Petten Street	JOB #: 5119R-15					
Rochester, NY	DATE: 7/14/15					
SAMPLE COLLECTOR(S): H. McLennan						
WEATHER CONDITIONS: Raining PID IN WELL (PPM): 1.7 LNAPL ND DNAPL ND						

	SECTION 2 - PURGE INFORMATION				
DEPTH OF WELL [I	FT]: 9.45	(MEASURED FROM TOP OF CASING - T.O.C.)			
STATIC WATER LE	:VEL (SWL) [FT]: 1.09	(MEASURED FROM T.O.C.)			
DISTANCE FROM T	T.O.C. TO GROUND [FT]:0.	1			
SWL [FT]: 0.99	(MEASURED FROM G	GROUND)			
THICKNESS OF WA	ATER COLUMN [FT]: 8.36	(DEPTH OF WELL - SWL)			
CALCULATED VOL	L. OF H ₂ O PER WELL CASING	[GAL]: <u>0.34</u> CASING DIA.: <u>1"</u>			
CALCULATIONS:					
CASING DIA. (FT)	WELL CONSTANT(GAL/FT)				
³ / ₄ " (0.0625) 1" (0.0833)	0.023 0.041	VOL. OF H ₂ O IN CASING = DEPTH OF WATER COLUMN X WELL CONSTANT			
11/4" (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]: 1.0 (3 TIMES CASING VOLUME)					
ACTUAL VOLUME	PURGED [GAL]: 3				
PURGE METHOD: _	Peristaltic Pump	PURGE START: 13:59 END: 14:25			

SECTION 3 - SAMPLE IDENTIFICATION AND TEST PARAMETERS				
SAMPLE ID#	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)	
TMW2-14-07-15	7-14-15 / 15:40	Bailer	TCL VOCs + TICs	

	SECTION 4 - WATER QUALITY DATA						
SWL (FT)	TEMP (°C)	pН	CONDUCTIVITY (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	ORP (mV)	VISUAL
1.20	19.34	6.43	0.771	N/M	5.56	-193	Gray, Petroleum-type Odor

N/M = Not Measured ND = Not Detected HMM0075/5119R-15 (GenMar)

WELL TMW3

SECTION 1 - SITE INFORMATION					
SITE LOCATION: 118 Petten Street	JOB #: 5119R-15				
Rochester, NY	DATE: 7/14/15				
SAMPLE COLLECTOR(S): H. McLennan					
WEATHER CONDITIONS: Raining PID IN WELL (PPM): 0.4 LNAPL ND DNAPL ND					

	SECTION	2 - PURGE INFORMATION		
DEPTH OF WELL [I	FT]: 10.36	(MEASURED FROM TOP O	OF CASING - T.O.C.)	
STATIC WATER LE	CVEL (SWL) [FT]: 1.15	(MEASURED FROM T.O.C.)	
DISTANCE FROM T	C.O.C. TO GROUND [FT]:	0.1		
SWL [FT]: 1.05	(MEASURED FROM	GROUND)		
THICKNESS OF WA	ATER COLUMN [FT]: 9.21	(DEPTH OF WELL - SWL)		
CALCULATED VOI	OF H ₂ O PER WELL CASING	G [GAL]: 0.38 CASI	ING DIA.:1"	
CALCULATIONS: <u>CASING DIA. (FT)</u> 3/4" (0.0625) 1" (0.0833) 11/4" (0.1041) 2" (0.1667) 3" (0.250) 4" (0.3333) 41/2" (0.375) 6" (0.5000) 8" (0.666)	WELL CONSTANT(GAL/FT 0.023 0.041 0.063 0.1632 0.380 0.6528 0.826 1.4688 2.611		WATER COLUMN X WELL CONSTANT	
CALCULATED PURGE VOLUME [GAL]: 1.1 (3 TIMES CASING VOLUME)				
ACTUAL VOLUME PURGED [GAL]: 3				
PURGE METHOD:	Peristaltic Pump	PURGE START: 14:27	END: 14:43	

SECTION 3 - SAMPLE IDENTIFICATION AND TEST PARAMETERS				
SAMPLE ID#	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)	
TMW3-14-07-15	7-14-15 / 15:50	Bailer	TCL VOCs + TICs	

SECTION 4 - WATER QUALITY DATA							
SWL (FT)	TEMP (°C)	pН	CONDUCTIVITY (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	ORP (mV)	VISUAL
1.12	24.33	6.29	0.553	N/M	5.25	-176	Gray, Petroleum-type Odor

N/M = Not Measured ND = Not Detected HMM0075/5119R-15 (GenMar)

WELL GM-MW16A

SECTION 1 - SITE INFORMATION			
SITE LOCATION: 118 Petten Street	JOB #: 5119R-15		
Rochester, NY	DATE: 7/14/15		
SAMPLE COLLECTOR(S): H. McLennan			
WEATHER CONDITIONS: Raining	PID IN WELL (PPM): 2.5 LNAPL ND DNAPL ND		

	SECTIO	ON 2 - PURGE INFORMATION
DEPTH OF WELL [F	T]: 10.93	(MEASURED FROM TOP OF CASING - T.O.C.)
STATIC WATER LE	VEL (SWL) [FT]:	(MEASURED FROM T.O.C.)
DISTANCE FROM T	O.C. TO GROUND [FT]: _	-0.3
SWL [FT]: 1.59	(MEASURED FRO	OM GROUND)
THICKNESS OF WA	TER COLUMN [FT]: 9.6	(DEPTH OF WELL - SWL)
CALCULATED VOL	. OF H ₂ O PER WELL CAS	ING [GAL]: 0.40 CASING DIA.: 1"
	WELL CONSTANT(GAL/ 0.023 0.041 0.063 0.1632 0.380 0.6528 0.826 1.4688 2.611 GE VOLUME [GAL]: 1.2	VET) CALCULATIONS VOL. OF H ₂ O IN CASING = DEPTH OF WATER COLUMN X WELL CONSTANT (3 TIMES CASING VOLUME)
PURGE METHOD: _	Peristaltic Pump	PURGE START: 09:23 END: 09:56

SECTION 3 - SAMPLE IDENTIFICATION AND TEST PARAMETERS				
SAMPLE ID#	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)	
GM-TMW16-A	7-14-15 / 16:00	Bailer	TCL VOCs + TICs	

SECTION 4 - WATER QUALITY DATA							
SWL (FT)	TEMP (°C)	pН	CONDUCTIVITY (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	ORP (mV)	VISUAL
1.22	24.68	6.34	0.002	N/M	3.09	-160	Brownish-Gray, Petroleum-type Odor

WELL TMW5

SECTION 1 - SITE INFORMATION			
SITE LOCATION: 118 Petten Street	JOB #: 5119R-15		
Rochester, NY	DATE: 7/14/15		
SAMPLE COLLECTOR(S): H. McLennan			
WEATHER CONDITIONS: Raining	PID IN WELL (PPM): 115 LNAPL ND DNAPL ND		

SECTION 2 - PURGE INFORMATION					
DEPTH OF WELL [F	T]: 11.65	(MEASURED FROM TOP OF CASING - T.O.C.)			
STATIC WATER LEV	VEL (SWL) [FT]: 3.53	(MEASURED FROM T.O.C.)			
DISTANCE FROM T.	O.C. TO GROUND [FT]	. 0.2			
SWL [FT]: 3.33	(MEASURED F	ROM GROUND)			
THICKNESS OF WA	TER COLUMN [FT]:8	(DEPTH OF WELL - SWL)			
CALCULATED VOL	OF H ₂ O PER WELL CA	ASING [GAL]: 0.33 CASING DIA.: 1"			
34" (0.0625) 1" (0.0833) 114" (0.1041) 2" (0.1667) 3" (0.250) 4" (0.3333) 41/2" (0.375) 6" (0.5000) 8" (0.666) CALCULATED PURO	WELL CONSTANT(GA 0.023 0.041 0.063 0.1632 0.380 0.6528 0.826 1.4688 2.611 GE VOLUME [GAL]: _1 PURGED [GAL]: _1.0	L/FT) CALCULATIONS VOL. OF H ₂ O IN CASING = DEPTH OF WATER COLUMN X WELL CONSTANT .0 (3 TIMES CASING VOLUME)			
PURGE METHOD: _	Peristaltic Pump	PURGE START: 10:58 END: 13:20			

SECTION 3 - SAMPLE IDENTIFICATION AND TEST PARAMETERS						
SAMPLE ID # DATE / TIME SAMPLING METHOD ANALYTICAL SCAN(S)						
TMW5-14-07-15	7-14-15 / 16:15	Bailer	TCL VOCs + TICs			

	SECTION 4 - WATER QUALITY DATA						
F					ORP (mV)	VISUAL	
3.32	21.13	6.45	0.833	N/M	5.86	-125	Gray/Brown, Strong Petroleum-type Odor

WELL TMW6

SECTION 1 - SITE INFORMATION						
SITE LOCATION: 118 Petten Street JOB #: 5119R-15						
Rochester, NY	DATE: 7/14/15					
SAMPLE COLLECTOR(S): H. McLennan						
WEATHER CONDITIONS: Raining PID IN WELL (PPM): 0.0 LNAPL ND DNAPL ND						

SECTION 2 - PURGE INFORMATION							
DEPTH OF WELL [F	T]: 9.58	(MEASURED FRO	OM TOP OF CASING - T.O.C.)				
STATIC WATER LE	STATIC WATER LEVEL (SWL) [FT]: 1.40 (MEASURED FROM T.O.C.)						
DISTANCE FROM T	C.O.C. TO GROUND [FT]:0.	12					
SWL [FT]: 1.28	(MEASURED FROM G	ROUND)					
THICKNESS OF WA	ATER COLUMN [FT]: 8.19	(DEPTH OF WEI	LL - SWL)				
CALCULATED VOL	OF H ₂ O PER WELL CASING	[GAL]: 0.34	CASING DIA.: 1"				
CALCULATIONS:							
CASING DIA. (FT) 34" (0.0625) 1" (0.0833) 114" (0.1041)	WELL CONSTANT(GAL/FT) 0.041 0.063		EDEPTH OF WATER COLUMN X WELL CONSTANT				
2" (0.1667) 3" (0.250) 4" (0.3333) 4½" (0.375)	0.1632 0.380 0.6528 0.826						
6" (0.5000) 8" (0.666)	1.4688 2.611						
CALCULATED PURGE VOLUME [GAL]: 1.0 (3 TIMES CASING VOLUME)							
ACTUAL VOLUME	PURGED [GAL]: 3.5						
PURGE METHOD:	Peristaltic Pump	PURGE START: 12	2:50 END: 13:15				

SECTION 3 - SAMPLE IDENTIFICATION AND TEST PARAMETERS						
SAMPLE ID # DATE / TIME SAMPLING METHOD ANALYTICAL SCAN(S)						
TMW6-14-07-15	7-14-15 / 16:25	Bailer	TCL VOCs + TICs			

	SECTION 4 - WATER QUALITY DATA							
SWL (FT)						VISUAL		
1.40	21.49	6.46	0.953	N/M	6.33	-168	Grayish, Faint Petroleum-type Odor	

WELL TMW7

SECTION 1 - SITE INFORMATION					
SITE LOCATION: 118 Petten Street JOB #: 5119R-15					
Rochester, NY	DATE: 7/14/15				
SAMPLE COLLECTOR(S): H. McLennan					
WEATHER CONDITIONS: Raining PID IN WELL (PPM): 1.3 LNAPL ND DNAPL ND					

SECTION 2 - PURGE INFORMATION					
DEPTH OF WELL [1	FT]: 11.90	(MEASURED FROM TOP OF CASING - T.O.C.)			
	EVEL (SWL) [FT]: 1.48 T.O.C. TO GROUND [FT]: 0.12	(MEASURED FROM T.O.C.)			
SWL [FT]: 1.36	(MEASURED FROM GRO	OUND)			
	ATER COLUMN [FT]: 10.42 L. OF H ₂ O PER WELL CASING [G	, , , , , , , , , , , , , , , , , , ,			
CALCULATIONS: <u>CASING DIA. (FT)</u> 34" (0.0625) 1" (0.0833) 11/4" (0.1041) 2" (0.1667) 3" (0.250) 4" (0.3333) 41/2" (0.375) 6" (0.5000) 8" (0.666)		CALCULATIONS /OL. OF H ₂ O IN CASING = DEPTH OF WATER COLUMN X WELL CONSTANT			
CALCULATED PUR	RGE VOLUME [GAL]: 1.3 (3 TI	MES CASING VOLUME)			
ACTUAL VOLUME	PURGED [GAL]: 3.5				
PURGE METHOD:	Peristaltic Pump	PURGE START: 12:17 END: 12:48			

SECTION 3 - SAMPLE IDENTIFICATION AND TEST PARAMETERS						
SAMPLE ID # DATE / TIME SAMPLING METHOD ANALYTICAL SCAN(S)						
TMW7-14-07-15	7-14-15 / 16:33	Bailer	TCL VOCs + TICs			

	SECTION 4 - WATER QUALITY DATA						
SWL (FT)						VISUAL	
1.48	23.06	6.6	0.64	N/M	4.05	-238	Light Gray, Faint Petroleum-type Odor

DAY ENVIRONMENTAL, INC. MONITORING WELL SAMPLING LOG

WELL TMW8

SECTION 1 - SITE INFORMATION						
SITE LOCATION: 118 Petten Street JOB #: 5119R-15						
Rochester, NY	DATE: 7/14/15					
SAMPLE COLLECTOR(S): H. McLennan						
WEATHER CONDITIONS: Light Rain	PID IN WELL (PPM): 0.8 LNAPL ND DNAPL ND					

SECTION 2 - PURGE INFORMATION					
DEPTH OF WELL [I	FT]: 12.20	(MEASURED FROM TOP OF CASING - T.O.C.)			
STATIC WATER LE	VEL (SWL) [FT]: _	1.80 (MEASURED FROM T.O.C.)			
DISTANCE FROM T	O.C. TO GROUND	D[FT]: 0.75			
SWL [FT]: 1.05	(MEASUR	ED FROM GROUND)			
THICKNESS OF WA	TER COLUMN [F]	T]: 10.4 (DEPTH OF WELL - SWL)			
CALCULATED VOL	. OF H ₂ O PER WE	LL CASING [GAL]: 0.43 CASING DIA.: 1"			
CALCULATIONS: <u>CASING DIA. (FT)</u> 3/4" (0.0625) 1" (0.0833) 11/4" (0.1041) 2" (0.1667) 3" (0.250) 4" (0.3333) 41/2" (0.375) 6" (0.5000) 8" (0.666) CALCULATED PUR ACTUAL VOLUME	_	VOL. OF H ₂ O IN CASING = DEPTH OF WATER COLUMN X WELL CONSTANT L]: 1.3 (3 TIMES CASING VOLUME)			
PURGE METHOD:	Peristaltic Pump	PURGE START: 14:46 END: 15:08			

SECTION 3 - SAMPLE IDENTIFICATION AND TEST PARAMETERS					
SAMPLE ID # DATE / TIME SAMPLING METHOD ANALYTICAL SCAN(S)					
TMW8-14-07-15	7-14-15 / 16:40	Bailer	TCL VOCs + TICs		

	SECTION 4 - WATER QUALITY DATA							
SWL (FT)					_	VISUAL		
1.54	21.41	6.85	0.288	N/M	7.27	-88	Light Gray, Very faint Petroleum-type Odor	

N/M = Not Measured ND = Not Detected

DAY ENVIRONMENTAL, INC. MONITORING WELL SAMPLING LOG

WELL TMW9

SECTION 1 - SITE INFORMATION						
SITE LOCATION: 118 Petten Street JOB #: 5119R-15						
Rochester, NY	DATE: 7/14/15					
SAMPLE COLLECTOR(S): H. McLennan						
WEATHER CONDITIONS: Raining PID IN WELL (PPM): 2.9 LNAPL ND DNAPL ND						

SECTION 2 - PURGE INFORMATION					
DEPTH OF WELL [F	FT]: 11.10	(MEASURED FROM TOP OF CASING - T.O.C.)			
STATIC WATER LE	VEL (SWL) [FT]: 2.22	(MEASURED FROM T.O.C.)			
DISTANCE FROM T	C.O.C. TO GROUND [FT]:0	.7			
SWL [FT]: 1.52	(MEASURED FROM (GROUND)			
THICKNESS OF WA	TER COLUMN [FT]: 8.88	(DEPTH OF WELL - SWL)			
CALCULATED VOL	. OF H ₂ O PER WELL CASING	[GAL]: 0.36 CASING DIA.: 1"			
CALCULATIONS:					
CASING DIA. (FT)	WELL CONSTANT(GAL/FT)	CALCULATIONS			
³ / ₄ " (0.0625)	0.023	VOL. OF H ₂ O IN CASING = DEPTH OF WATER COLUMN X WELL CONSTANT			
1" (0.0833)	0.041 0.063				
1¼" (0.1041) 2" (0.1667)	0.063				
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 PUR	GE VOLUME [GAL]: 1.1 (3	TIMES CASING VOLUME)			
ACTUAL VOLUME	PURGED [GAL]:1.50				
PURGE METHOD:	Peristaltic Pump	PURGE START: 15:10 END: 15:26			

SECTION 3 - SAMPLE IDENTIFICATION AND TEST PARAMETERS					
SAMPLE ID # DATE / TIME SAMPLING METHOD ANALYTICAL SCAN(S)					
TMW9-14-07-15	7-14-15 / 16:50	Bailer	TCL VOCs + TICs		

	SECTION 4 - WATER QUALITY DATA							
SWL TEMP pH CONDUCTIVITY (FT) (°C) (mS/cm)			TURBIDITY (NTU)	DO (mg/L)	ORP (mV)	VISUAL		
2.24	23.38	6.69	1.02	N/M	5.65	-158	Gray, Strong Petroleum-type Odor	

N/M = Not Measured ND = Not Detected

DAY ENVIRONMENTAL, INC. MONITORING WELL SAMPLING LOG

WELL TMW10

SECTION 1 - SITE INFORMATION					
SITE LOCATION: 118 Petten Street	JOB #: 5119R-15				
Rochester, NY	DATE: 7/14/15				
SAMPLE COLLECTOR(S): H. McLennan					
WEATHER CONDITIONS: Raining	PID IN WELL (PPM): 1.7 LNAPL ND DNAPL ND				

SECTION 2 - PURGE INFORMATION					
DEPTH OF WELL [I	FT]: 10.38	(MEASURED FROM TOP OF CASING - T.O.C.)			
STATIC WATER LE	VEL (SWL) [FT]:	(MEASURED FROM T.O.C.)			
DISTANCE FROM T	O.C. TO GROUND	FT]: 0.7			
SWL [FT]: 0.97	(MEASURE	D FROM GROUND)			
THICKNESS OF WA	TER COLUMN [FT]	: 8.71 (DEPTH OF WELL - SWL)			
CALCULATED VOI	OF H ₂ O PER WELI	L CASING [GAL]: 0.36 CASING DIA.: 1"			
CALCULATIONS: <u>CASING DIA. (FT)</u> 34" (0.0625) 1" (0.0833) 114" (0.1041) 2" (0.1667) 3" (0.250) 4" (0.3333) 414" (0.375) 6" (0.5000) 8" (0.666) CALCULATED PUR ACTUAL VOLUME		VOL. OF H ₂ O IN CASING = DEPTH OF WATER COLUMN X WELL CONSTANT :			
PURGE METHOD:	Peristaltic Pump	PURGE START: 15:28 END: 15:55			

SECTION 3 - SAMPLE IDENTIFICATION AND TEST PARAMETERS					
SAMPLE ID # DATE / TIME SAMPLING METHOD ANALYTICAL SCAN(S)					
TMW10-14-07-15	7-14-15 / 16:55	Bailer	TCL VOCs + TICs		

	SECTION 4 - WATER QUALITY DATA						
SWL (FT)	TEMP (°C)	pН	CONDUCTIVITY (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	ORP (mV)	VISUAL
1.35	22.25	6.77	0.411	N/M	5.58	-170	Cloudy, no noticeable odor

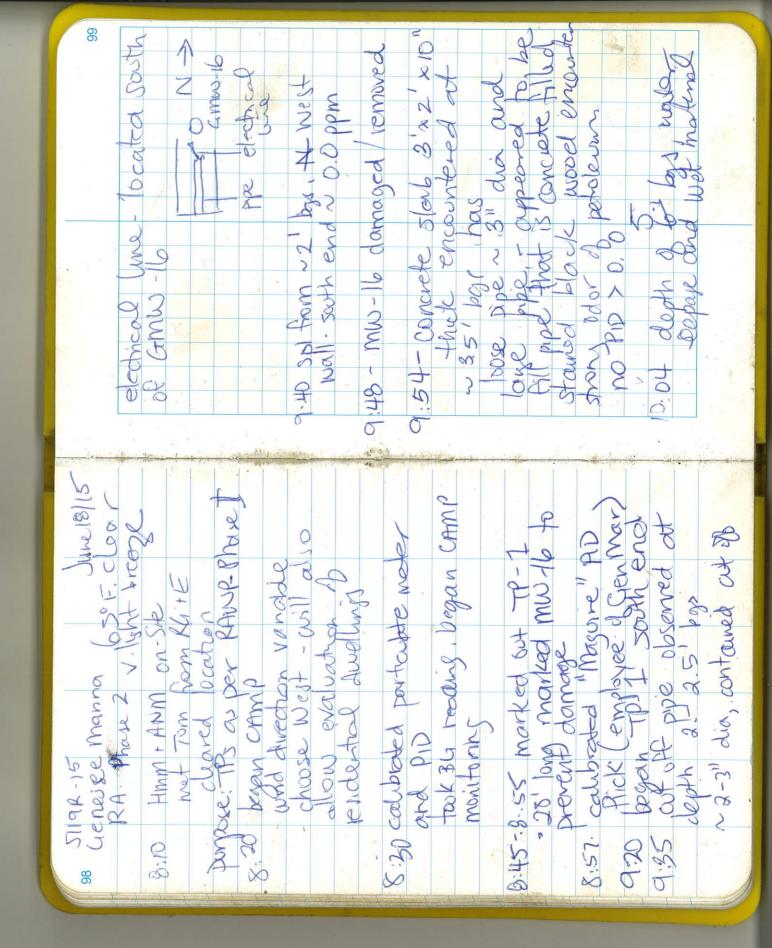
N/M = Not Measured ND = Not Detected

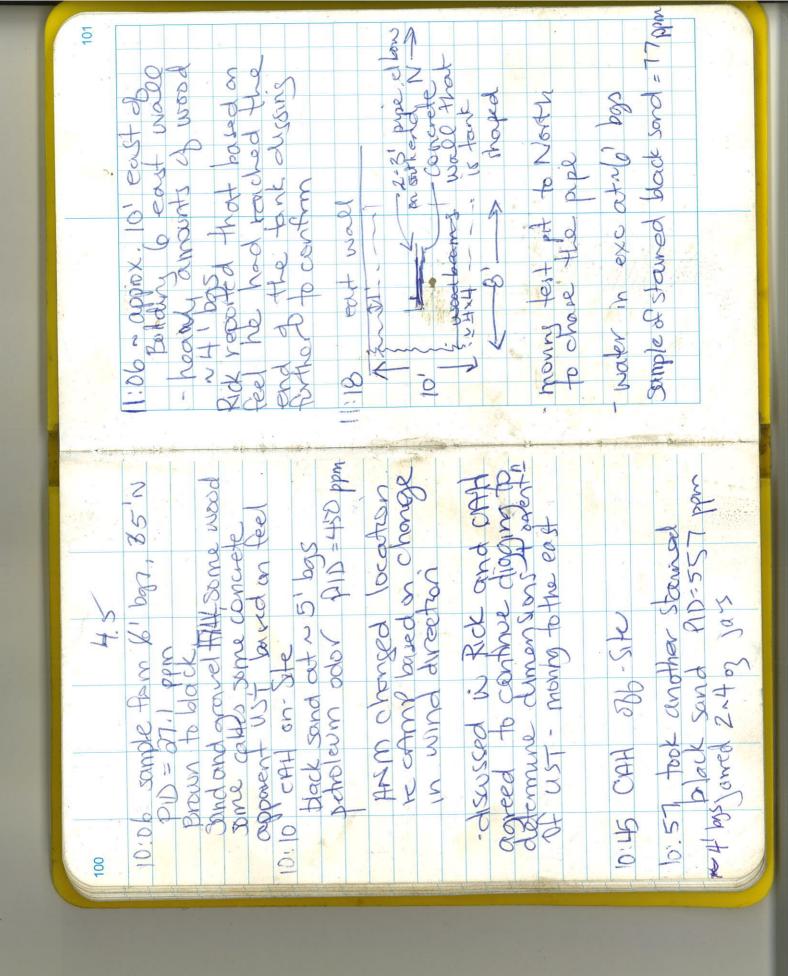
APPENDIX D

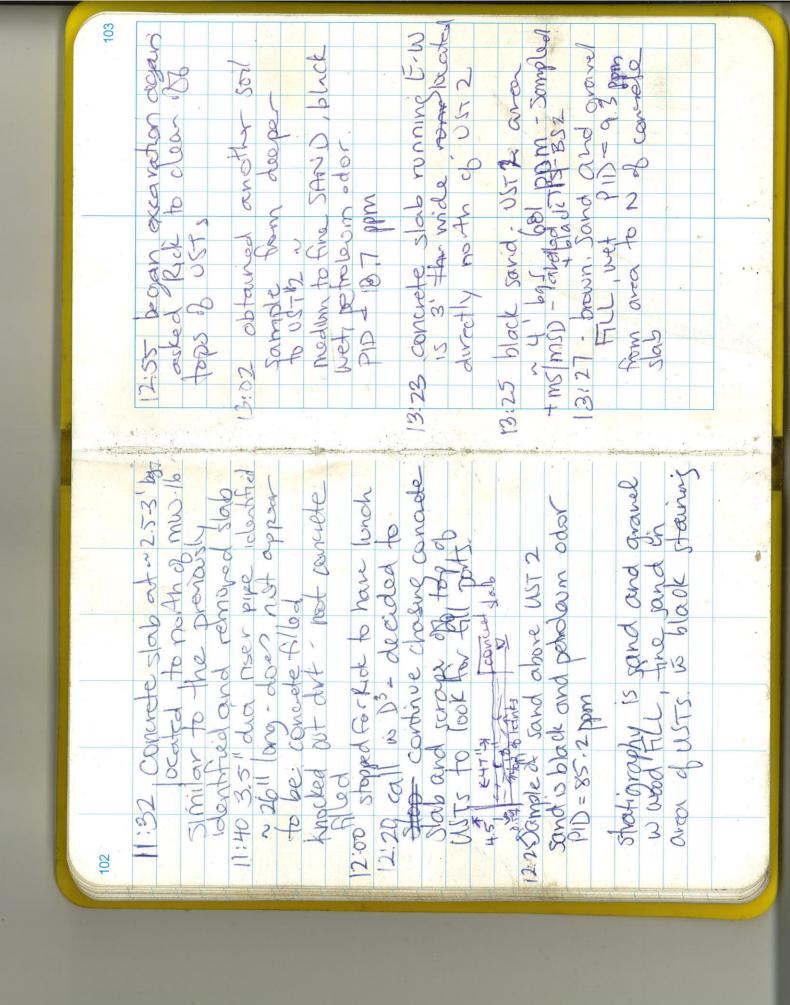
REMEDIAL DESIGN INVESTIGATION

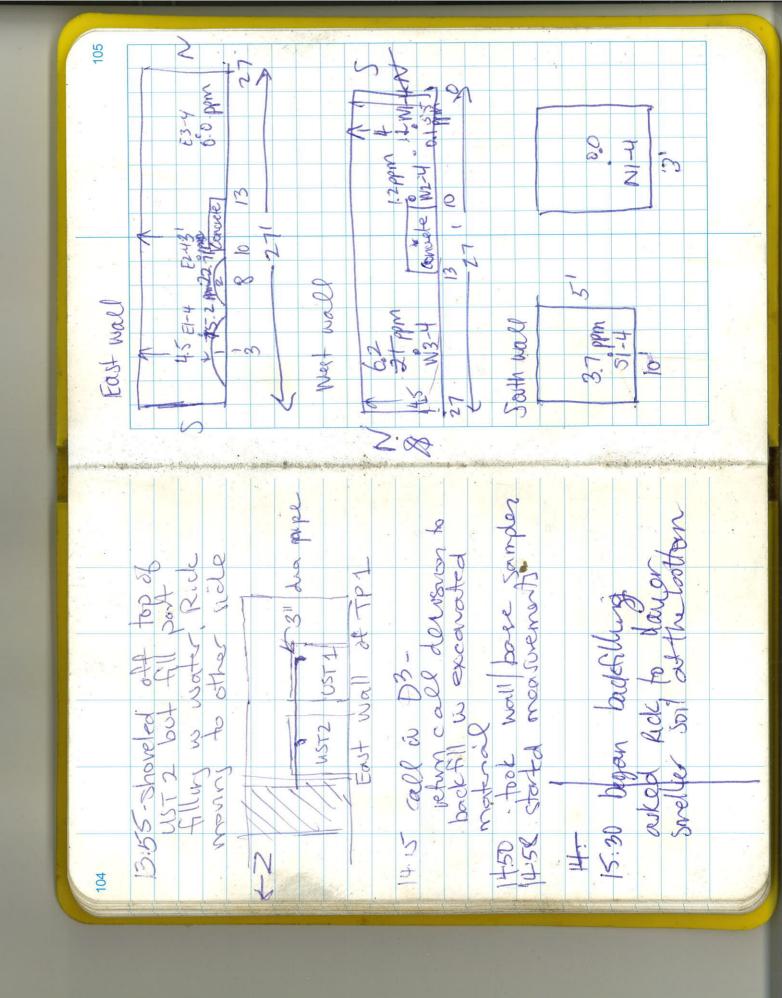
118 PETTEN STREET,
ROCHESTER, NY

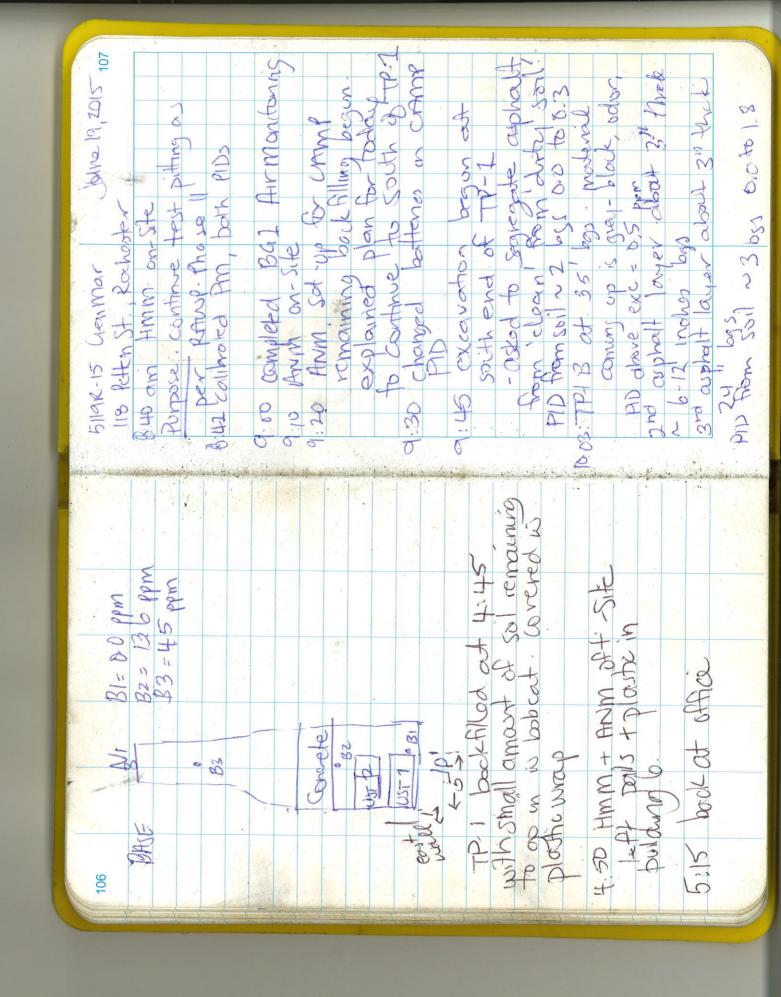
August 2015 (Revised April 2016)

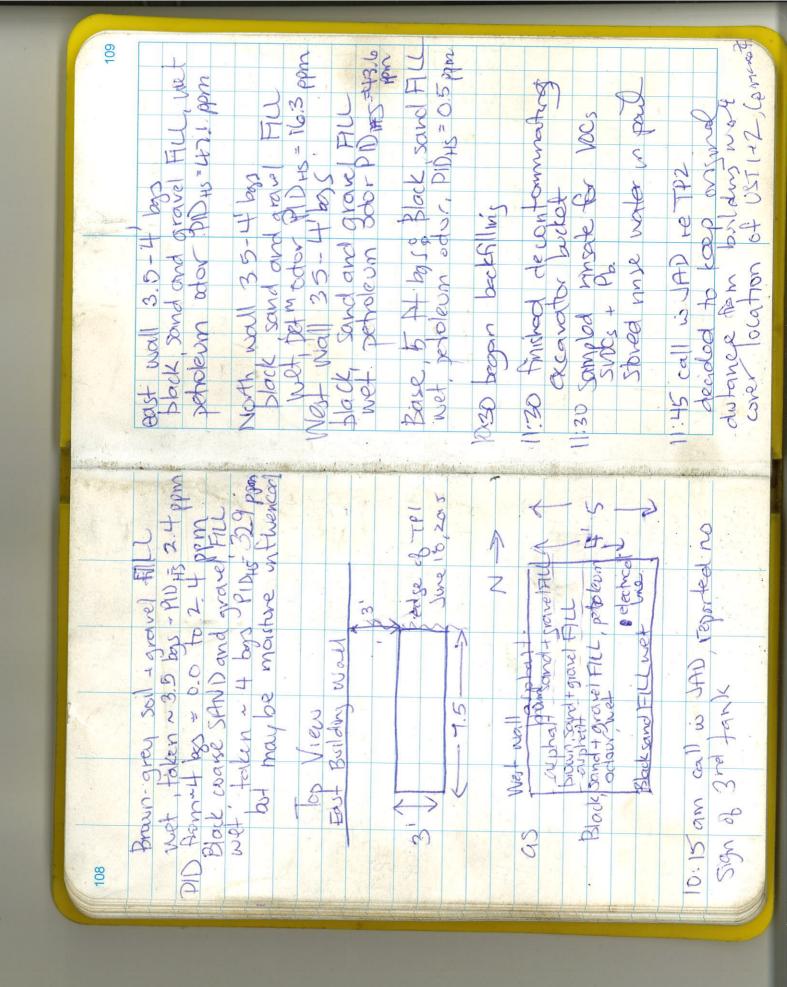












11.55 bean TP-2 at sorth end

DD 2 meternel 0.1 bros

cisphalt at learning from

1.2 brown color change from

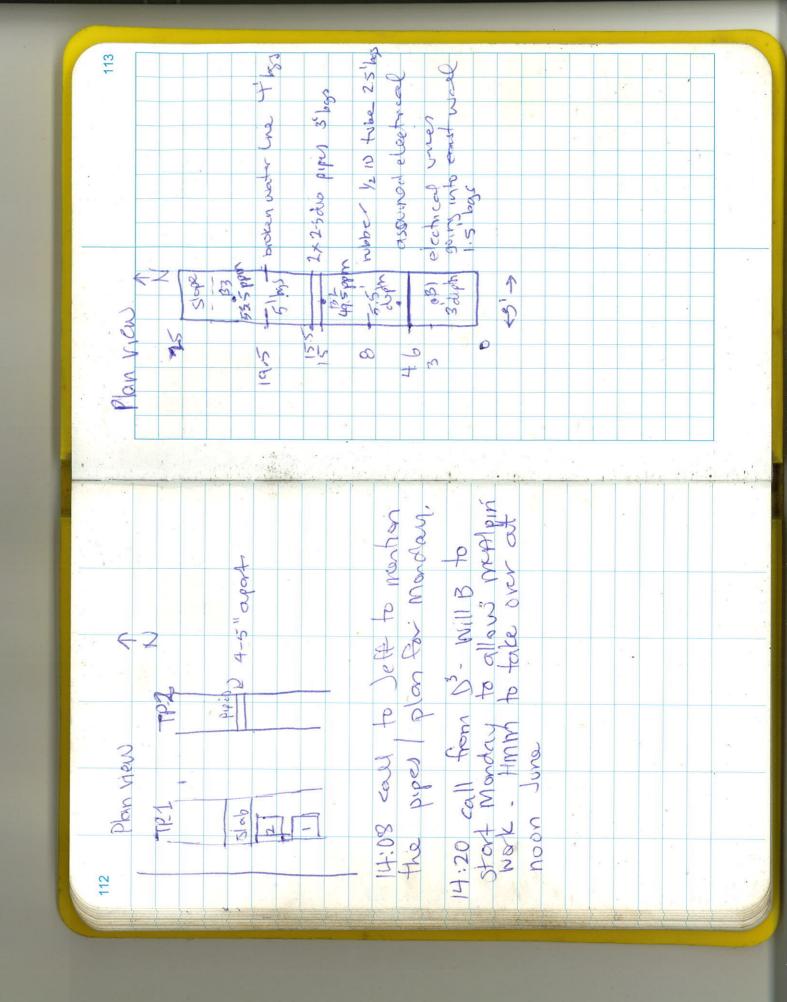
1.3 brown excaveton

1.3 brown by meternel 1.2 brown

1.50 resume excaveton

1.50 resume

1

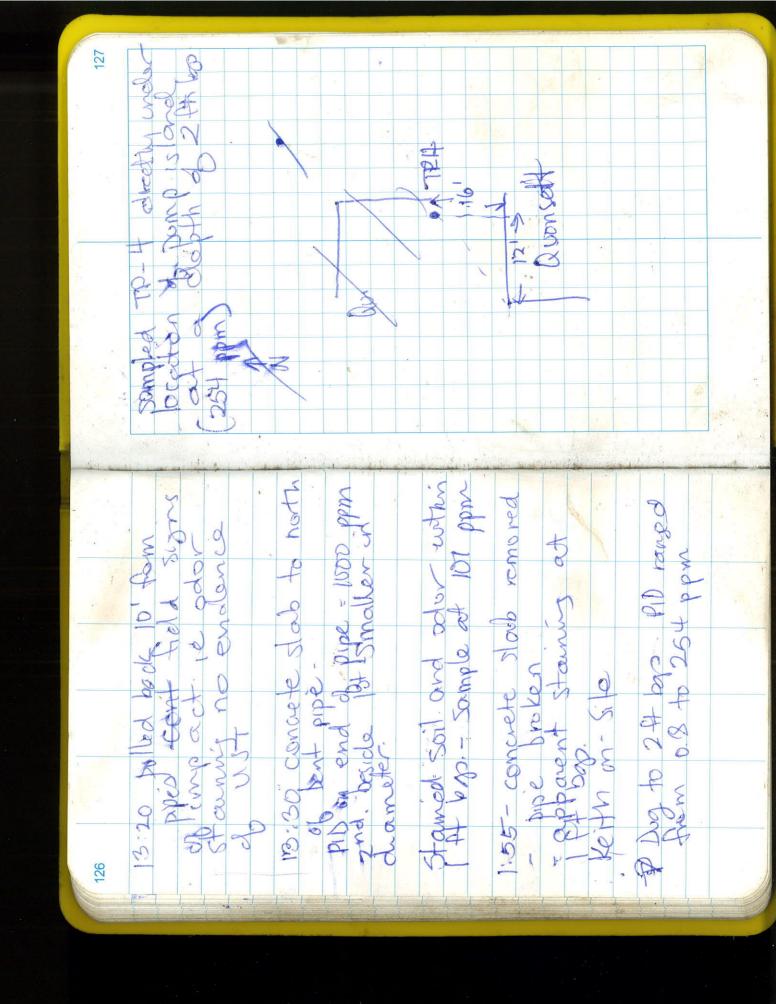


	1215 H	3	12:30 6	12:48		0,10	200	Dud .	ام ام		13,07	2	HEMIO	ت		Szemple	bear		Ollsa	Samo	no to	0	reall	Shu	
June 22, 2015	OAY @ office to load supplies	DAY leaves for site	DAY on site. Calibrates PID, and	Dust meter	Rick on site, begins elecand	neterial from dissing area o	intrusive work Sexins, PIP	buckground inside billing = 0,3 ppm	Work stops for OAY of talks.	readings and Rick to add that be	externator	_	First	about 5' dolle in approx location	where we expected to see the	some 3" pipes as before - none	found, DAY instructs hick to	expend Pit to the North author 3:	at the same 5 scoth		DAY to evaluati	Rick starts butbilling to rube out to	expend front along billing wall	Narrow track along building wall begins	seemly for
116	.0630	0750	0743		0280		0830		5844			0856	5060			No.				2915		5445	4040	Toro	17,60

	Building Wall		DOOR -
1215 Headle or Site, 1:30 call is JAD to updarte 2:48 Rick back.	clear oft south concete of	to birlang wall to be loss in temoral no obvious ators mo i high PID readings ators mo i sampled a 3 depth on similar to carion as sorth UST-PID= 3.4 pmm	Sample 5' bay in the in to north UST + concrete slab (ext) is location of history PID

July 13th 121 solitically start on mus 2 days to start in exc 7.55 Hum + Ann on-Site . remove pipeng tound in TPZ 8:45 TREC on she exconty 8:00 am calibrate Pm + PID 7.00 at office to load mak TREC solveduld of 8:20 set up location for Somplete all as nows CANA and Cm-mw.16-A 8:10 background reading showed four locations and shows asked for extraord removal and pepe removal 9:20 HMM off -5,4e SIT

10:35 pipes exposed to Naper polarior of the sample of the



131 Samoling which wells 13-11- recover 30,00 TB-10 composete A SE 15:30 began well sampling Dostible Streen · Logar saclers Ouro TRE 46- 26 17:02 Anished well 7.26 Frmm Waged 6 9.435 TB-1 begin 10:10 cell w JAD re location HMM + ANN ON- DIE TBS+ MW15-collect granditister 7:30 that Unloaded - Ann to received flaunce 10.80 TEMPONIN P-87 PUTOSC: Install HIMM callbrate SIE FIN SIC Bee 8:45 TB-6 8:00 TB-5 THE STATE OF THE S

AIR MONITORING REPO	RT SHEET
DATE: June 19, 2015	PAGE: OF Q
JOB #: <u>5119R-15</u>	
SITE: Genesee Marina	2
BY: ANM	
ON-SITE: 0815 OFF-SITE: 1645	- No. Sec
WEATHER CONDITIONS: 63°F PRE	EVAILING WIND DIRECTION: WEST ~4"
PERSONNEL ON-SITE: ANM + HMM	
NOTES: CAM I located on west edo	ge of site on dirtlgravel
road; trucks drive by periodicall	& stirring up particulates
on road.	· J
2	
tensor and the contraction alonger	
1015 wind north ~8 mph, moved	d to CAM2 @ 1025
1240 work stops for lunch	-
1300 work restarts	
1645 work stops	

DESCRIPTION	TIME	LOCATION	PID (ppm)	PARTICULATES (mg/m3)
BGI	0840	891	0.0	0.017
CAMP	0900	CAMI	0.0	0.014
CAMP	0915	CAMI	0.0	0.076
CAMP	0930	CAMI	0.0	0.062
CAMP	0945	CAMI	0.0	0.025
CAMP	£1000	CAMI	0.0	0.015
CAMP	1015	CAMI	0.0	0.027
862	8101	BG	0.0	0.017
CAMP	1040	CAM2	0.0	0.069
CAMP	1055	CAM2	0.0	0.016
CAMP	1110	CAM2	0.0	0.012
CAMP	1125	CAM2	0.0	0.021
CAMP	1140	CAM2	0.0	0.013
CAMP	1155	CAM2	0.0	0.017
CAMP	1210	CAM2	0.0	0.017
CAMP	1225	CAM2	O.O	0.014
CAMP	1240	CAMZ	0.0	0.017
CAMP	1300	CAM2	0.0	0.017
CAMP	1315	CAM2	0.0	0.016
CAMP	1330	CAM 2	0.0	0.041



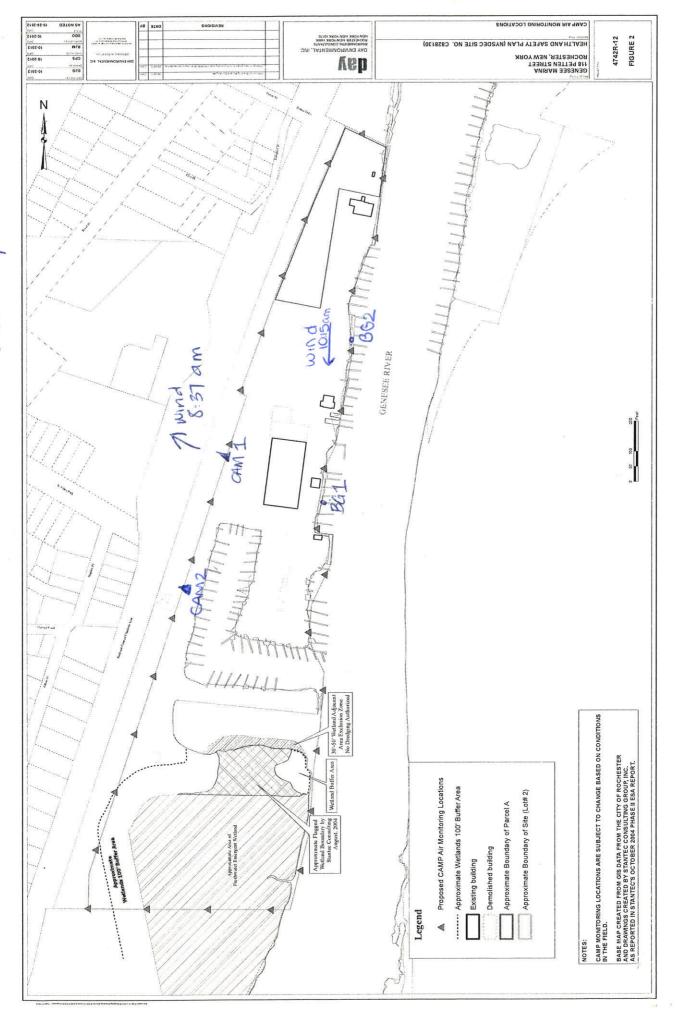
AIR MONITORING REPORT SHEET (Continued)

DATE: 6/18/15 PAGE:	2	OF _	2
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JOB #: <u>5119R-15</u>

DESCRIPTION	TIME	LOCATION	PID (ppm)	PARTICULATES (mg/m3)
CAMP	1395	CAM2	0.0	0.02
CAMP	1400	CAM2	0.0	0.026
CAMP	1415	CAM2	0.0	0.015
CAMP	1430	CAM2	0.0	0.015
CAMP	1445	CAM2	0.0	0.027
CAMP	1500	CAM2	0.0	0.024
CAMP	1515	CAM2	0.0	0.033
CAMP	1530	CAM2	0.0	0.033
CAMP	1545	CAM2	0.0	0.035
CAMP	1600	CAM2	0.0	0.032
CAMP	1615	CAM2	0.0	0.027
CAMP	1630	CAM2	0.0	0.027
1				
				A
				×

June 18, 2015



AIR WIONITORING R	EPORT SHEET
DATE: June 18	PAGE: OF 7
JOB #:_5119R-15	
SITE: Genesee Marina	
BY: HMM	
ON, SITE: 10.45	
WEATHER CONDITIONS: 65° F	PREVAILING WIND DIRECTION: West 4 mpl
PERSONNEL ON-SITE: HMM + ANN	
NOTES: mod surements taken	within breatling zone
in work area	
1	
- 1 °	
4	
	*

DESCRIPTION	TIME	LOCATION	PID (ppm)	PARTICULATES (mg/m3)
37	-q.10	TP1	0,0	Nm.
1 23	9:30_	-	0.0	
	9.93		0.0	
	10:00		0-0	
The state of the s	10:15		0.0	
A STATE OF THE STA	10:30		O. D	
	10:45		U. 0	
	11:00	3.	00	1
0	11:15	172	0.0	
	11:30	A CONTRACTOR OF THE PARTY OF TH	0-0	Section 1
<u> </u>	11:47		0.0	1002
1 (&	12:00		00	
	12:15		0.0	
	12:30		00	
	12:45	-	0.0	
	13:00		0.0	<u> </u>
	13:05		0.0	
	13:30		0.1	
,	13:45		0.0	
V	14:00	V	6.0	₩.



AIR MONITORING REPORT SHEET (Continued	rued)	(Cont	SHEET	ORT	REP	NG	DRI	TO	NI	O	M	AIR	1
----------------------------------------	-------	-------	-------	-----	-----	----	-----	----	----	---	---	-----	---

DATE:	Une	18	201	5
0.00		,		

PAGE: 2 OF 2

JOB #: <u>5119R-15</u>

DESCRIPTION	TIME	LOCATION	PID (ppm)	PARTICULATES (mg/m3)
BG BZ	14:15	771	0.0	
	14:30		0.0	
	14:45		0.0	Stoppe of or
	15:00	aparti.	10:0	
	15:00		0.0	
*	15:15		0.0	45
	15:30		0.0	5
	15:45		0.0	
	16:00		0-0	
	16:15		0.0	
	16:30		0.0	
V	16:45	V	0.0	
			-	
				*
8				
×				
		printer continue to the contin		

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

AIR MONITORING REPORT SHEET
DATE: JUNE 18, 2015 PAGE: 1 OF 2
JOB #:_5119R-15
SITE: Genesee Marina
BY: ANM
ON-SITE: 0845 OFF-SITE: 015
WEATHER CONDITIONS: 55° F, overcast PREVAILING WIND DIRECTION: ~5 mph
WEATHER CONDITIONS: 55° F, overcast PREVAILING WIND DIRECTION: ~5 mph PERSONNEL ON-SITE: HMM + ANM
NOTES:
1215 work stops for lunch
1300 work resumes
3

DESCRIPTION	TIME	LOCATION	PID (ppm)	PARTICULATES (mg/m3)
BG1	0915	BG I	0.0	0.0
CAMP	0930	CAM2	0.0	0.007
CAMP	0945	CAM2	0.0	0.0
CAMP	1000	CAM2	0.0	0.023
CAMP	1015	CAM2	0.0	0.024
CAMP	10.30	CAM2	0.0	0.005
CAMP	1045	CAM2	0.0	0.013
CAMP	1100	CAM2	0.0	0.07.3
CAMP	1115	CAM2	0.0	0.074
CAMP	1130	CAM2	0.0	0.007
CAMP	1145	CAM2	0.0	0.032
CAMP	1200	CAM2	0.0	0.022
CAMP	1215	CAM2	0.0	0.00
CAMP	1315	CAM2	0.0	0.008
CAMP	1330	CAM2	0.0	0.020
CAMP	1345	CAM2	0.0	0.007
CAMP	1400	CAM2	0.0	0.031
CAMP	1415	CAM2	0.0	0.027
CAMP	1430	CAM2	0.0	0.011
CAMP	1445	CAM2	0.0	0.005

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

AIR MONITORING REPORT SHEET (Continued)

1			AII	/ TAT
DATE:_	lune	19	20	5

PAGE: 2 OF 2

JOB #: 5119R-15

CAM2	PID (ppm)	PARTICULATES (mg/m3)
	0.0	0.010
CAM 2	00	0.010
cAm 2	0.0	0.013
5 CAMZ	0.0	0.015
		_
		0
	1	
_		DG - Userial Parkers and GAMP - Ostaid

10-3e-5015 10-3e15 10-3015 10-3015 10-3015 AS NOTED CAMP AIR MONITORING LOCATIONS DAY ENVIRONMENTAL,
BUNDONMENTAL,
BUNDONMENTAL
BODIESTER, NEW YORK 1606
NEW YORK 1606 4742R-12 FIGURE 2 BDD WHENCE CHECKED COMES HEALTH AND SAFETY PLAN (NYSDEC SITE NO. C828130) ROCHESTER, NEW YORK
ROCHESTER, NEW YORK 10-3013 מפ Ν June 19,2015 GENESEE RIVER CAMA CAMP MONITORING LOCATIONS ARE SUBJECT TO CHANGE BASED ON CONDITIONS IN THE FIELD. BASE MAP CREATED FROM GIS DATA FROM THE CITY OF ROCHESTER AND DRAWNOS CREATED BY STANTEC CONSULTING GROUP, INC. AS REPORTED IN STANTEC'S OCTOBER 2004 PHASE II ESA REPORT. Proposed CAMP Air Monitoring Locations ----- Approximate Wetlands 100' Buffer Area Approximate Boundary of Site (Lot#2) Approximate Boundary of Parcel A Demolished building Existing building Legend NOTES:

AIR MONITORING REPORT SHEET
DATE: 19, 2015 PAGE: OF 2
JOB #: 5119R-15
SITE: <u>Jenesee</u> Marina
BY: Hmm
ON-SITE: 8:46 OFF-SITE: 10:15
WEATHER CONDITIONS: 55° F OVERAST PREVAILING WIND DIRECTION: 15 Myh N
PERSONNEL ON-SITE: Heather melennan
NOTES: 11:60 - break for decontamnation + collection
d misate
12:150 12:50 Winch break.

DESCRIPTION	TIME	LOCATION	PID (ppm)	PARTICULATES (mg/m3)
BZ	9:45	TPIB	00	
	10:00		0.1	
	10:15		0.0	
	10:30		0.0	
	10:45		D 0	
	11:00		0.0	
	12:00	11/2	Th5 0.	O
	12:15		0.0	
	13:00	14	0.0	
	13:15		0.0	
	13:30		9.0	
	13:45		0.0	
	14:00	A	0.0	
	14:15		0.0	
	14:30		0.0	
	14:45		0.0	
	15:00		6.0	
	15:15		0.0	\\
	15:30		00	(2)
	16:00	V)	0 -0	

DESCRIPTION: BZ = Breathing Zone, BG = Upwint Background, CAMP = Outside work area/at property boundary S:/fieldforms/Air Monitoring

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

www.dayenvironmental.com

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

AIR MONITORING REPORT SHEET

DATE: 22 June 2015 PAGE: OF D
JOB #: <u>5119R-15</u>
SITE: Genesee Marina
BY: W. Batiste
ON-SITE: 0743 OFF-SITE: 5:05
WEATHER CONDITIONS: SURVY ~ 80°F PREVAILING WIND DIRECTION: SE
PERSONNEL ON-SITE: DAY
NOTES: Meters calibrated okay. Since sub-surface work is
door with most likely route for fugitive dust and volatiles. CAMP
started @ 0830, Intrusive work pauses @ 0844. Work resures
@ 0856, Work Stops @ 0915. Work resures @ 0931 expending pit south. Trends complete @ 1200, Bick breaks for lune!
12:50 Rick brown excavating concrete pad Backfilling Complete at 15:05
* Beating Boat Sarling

tenting Doat serving						
DESCRIPTION	TIME	LOCATION	PID (ppm)	PARTICULATES (mg/m3)		
Background	0800	BG-1	0.0	0.009		
CAMP	0844	DOOR 1	0.0	0.005		
CAMP 09	120856	DOOR I	0.0	0.010		
CAMP	0945	DOOR 1	0.0	0.017 *		
CAMP	0957	ROOR I	0.0	0.018		
CAMP	1010	DOOR 1	0.0	0.012		
Breadling Zon	1012	13Z-1	0.8	0.018		
eampo	1030	DOOR 1	0.0	0.015		
CAMP	1045	POOR 1	0.0	0.016		
Breathing Zone	1046	BZ-1	0.6	0.018		
CAMP 8	1100	TOOK 1	0.6	0-617		
CAMP	1115	DOOR 1	00	0.014		
Breading Zone	1116	32-1	0.5	0.015		
CAMP	1132	DOR-I	0,0	0.016		
CAMP	1146	DOOK I	0.0	0.018		
Breathin zone	1147	32-1	0.3	0.017		
CAMP 8	1200	DOOR 1	0.0	0.014		
come.	13:07	Doop I	0.0	0.017		
BZ	13:07	Per-1	0.2	1		
Breathy Zona		BZ-1	0.0	-0. In 0.02		

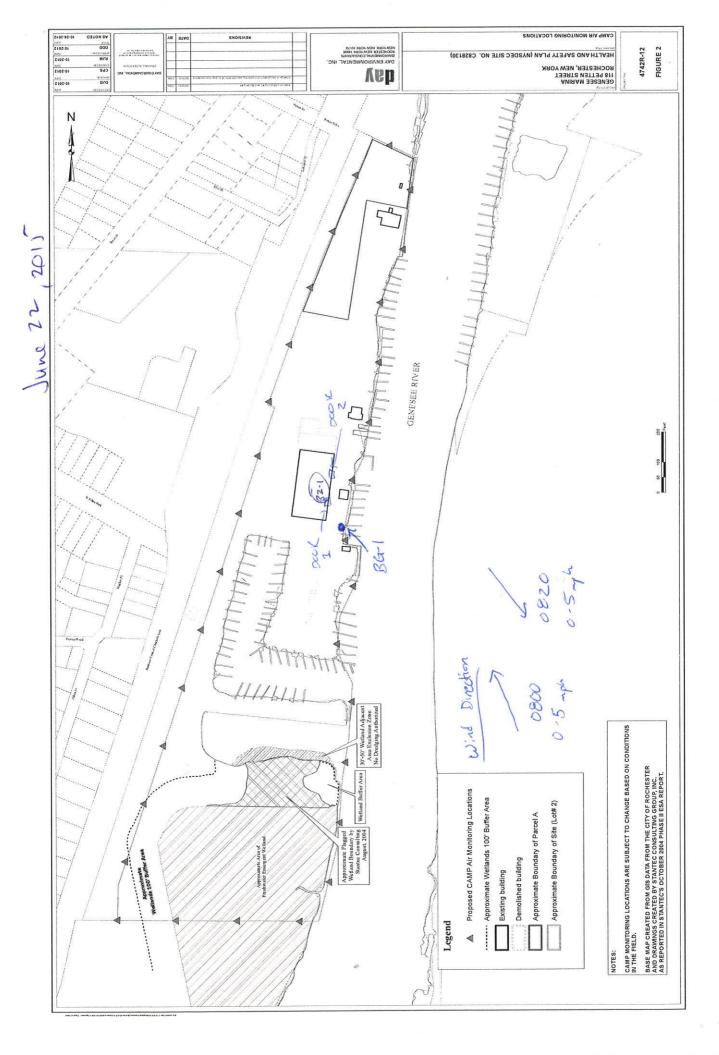
AIR MONITORING REPORT SHEET (Continued)

DATE:	June	22	,2015
-			

PAGE: 2 OF 2

JOB #: 5119R-15

DESCRIPTION	TIME	LOCATION	PID (ppm)	PARTICULATES (mg/m3)
Breathy zone	13.40	132-1	8.1	
CAMP	13:39	DOOR-1	0-0	0.018
CAMP	13.54	poor-1	0.0	0.019
ProthingZoro	12:55	BI-1	0.2	
Breating las	2/4:12	BZ-1	00	
CAMP	14:13	DOOR-1	0-0	(0.019
CAMP	14:31	DOOK-1	00	810.0
Breathy Zone	14:32	B2-1	0.1	
Cumps	14.43	POOR-1	0.0	0023
CAMP	15:01	DOOR-1	0.0	0023
				2
14				
				* II





AIR MONITORING REPORT SHEET

DATE: July 13 th , 2015	PAGE: 1 OF 2	
JOB #: <u>5119R-15</u>		
SITE: Genesee Marina		
BY: ANM		
ON-SITE: 07:55 OFF-SITE: 15:55		
WEATHER CONDITIONS: 80°F Sunn	Partly PREVAILING WIND DIRECTION: 1 mph SU	U
PERSONNEL ON-SITE: HMM FANM		
NOTES: 0800 Calibrate PID & PM	CAMPI near sensitive residential area	
08:50 @ CAMPI site; CAMP begins	CAMPI = same location as CAM2 (6/1	15)
09:20 excavation begins		
10:45 PWD 5 mph SW	9	
12:30 work stops for lunch	- 1	
12:45 work restarts		
15:33 work ends for day		
15:55 DAY offsite		

DESCRIPTION	TIME	LOCATION	PID (ppm)	PARTICULATES (mg/m3)
BG	8:15	BGI	0.0	0.026
CAMPE	9:00	CAMPI	0.0	0.021
CAMP	9:15	CAMPI	0.0	0.021
CAMP	9:30	CAMPI	0.0	0.022
CAMP	9:45	CAMPI	0.0	0.023
CAMP	10:00	CAMPI	0.0	0.023
CAMP	10:15	CAMPI	0.0	0.026
CAMP	10:30	CAMPI	0.0	6.027
CAMP	10:45	CAMPI	0.0	0.027
CAMP	11:00	CAMPI	0.0	0.025
CAMP	11:15	CAMPI	0.0	0.023
CAMP	11:30	CAMPI	0.0	0.022
CAMP	11:45	CAMPI	0.0	0.021
CAMP	12:00	CAMPI	0.0	0.021
CAMP	12:15	CAMPI	0.0	0.020
CAMP	12:30	CAMPI	0.0	0.019
CAMP	13:00	CAMPI	0.4	0.067
CAMP	13:15	CAMPI	0.0	0.060
CAMP	13:30	CAMPI	0.0	0.024
CAMP	13:45	CAMPI	0.0	0.024

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary

P:\My Documents\Field Forms
PWD = prevailing wind direction
1563 LYELL AVENUE

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AIR MONITORING REPORT SHEET (Continued)

DATE: July 13 th , 2015	PAGE: 2			
IOB #: 51198 - 15				

DESCRIPTION	TIME	LOCATION	PID (ppm)	PARTICULATES (mg/m3)
CAMP	14:00	CAMPI	0.0	0.029
CAMP	14:15	CAMPI	0.0	0.029 0.035
CAMP	14:30	CAMPI	0.0	0.032
CAMP	14:45	CAMPI	0.0	0.032
CAMP	15:00	CAMPI	0.0	0.023
CAMP	15:15	CAMPI	0.0	0.025
CAMP	15:30	CAMPI	0.0	0.019
	1			
	=			
20				
	(8)			
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DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary S:/fieldforms/Air Monitoring

MUR ANTERONE TKH TEAS TAS NOTED FIGURE 2 - historianist REMEDIAL ACTION WORK PLAN (NYSDEC SITE NO. C828130) 10.2012 ROCHESTER, NEW YORK 10-2013 Cb2 Kep pra N BASE MAP CREATED FROM GIS DATA FROM THE CITY OF ROCHESTER AND DRAWNIGS CREATED BY STANTEC CONSULTING GROUP, INC. AS REPORTED IN STANTEC'S OCTOBER 2004 PHASE ILESA REPORT. July 13, 2015 - 01 - 01 - 01 - 01 NOTES: Site Plan 78 1 GENESEE RIVER Former Underground Storage Tanks (USTs) - Reported to be closed-in-place 30-50' Wetland Adjucent Area Exclusion Zone No Dredging Authorized Existing Underground Storage Tanks (USTs) Former Aboveground Storage Tank (AST) Existing Aboveground Storage Tank (AST) ----- Approximate Wetlands 100' Buffer Area Approximate Boundary of Site (Lot#2) Approximate Boundary of Parcel A 1 Building Identification Number Demolished building Existing building Approximate Flagged Wetland Boundary by Stantee Consulting W Angust, 2004 Legend

AIR MONITORING REPO	RTSHEET			
DATE: July 13 th , 2015	PAGE	:_1	OF2	
JOB #: <u>5119R-15</u>				
SITE: Genesee Marina				
BY: ANM				
ON-SITE: 17:26				
WEATHER CONDITIONS: 75° F partly Cloudy PRE	EVAILING WIND	DIRECTI	ON: N-	NE
PERSONNEL ON-SITE: ANM + HMM				
NOTES:				
11:00 Cloudy 12:30 drilling	complete	-		
12:45 Drizzling				
13:00 Drilling complete 13:00 -	TREC of	C. Sit	2	
	17			
	- 3			

DESCRIPTION	TIME	LOCATION	PID (ppm)	PARTICULATES (mg/m3)
Dockground	7:50	BG-1	0.0	0.024
CAMP	8:15	CAMP-1	0.0	2.023
CAMP	8.30	CAMP-1	0.0	0.023
CAMP	D:45	CAMP-1	6.0	0.024
CAMP	9:00	CAMP-1	0.0	0.025
CAMP	9:15	CAMP-1	0.0	0.025
CAMP	9:30	CAMP-1	0.0	0.026
CAMP	9:45	CAMP-1	0.0	0.024
CAMP	10:00	CAMP-I	0.0	0.021
CAMP	10:15	CAMP-1	0.0	0.017
CAMP	10:30	CAMP-1	0.0	0.013
CAMP	10:45	CAMP-1	0.0	0.015
CAMP	11:00	CAMP-1	0.0	0.017
CAMP	11:15	CAMP-1	0.0	0.016
CAMP	11:30	CAMP-1	0.0	0.015
CAMP	11:45	CAMP-1	0.0	0.017
CAMP	11:56	CAMP-1	D.D	0.018
CAMP	12:16	CAMP-1	0.0	0.017
CAMP	12:30	CAMP-1	0.0	0.012
CAMP	12:45	CAMP-1	0.0	0.017

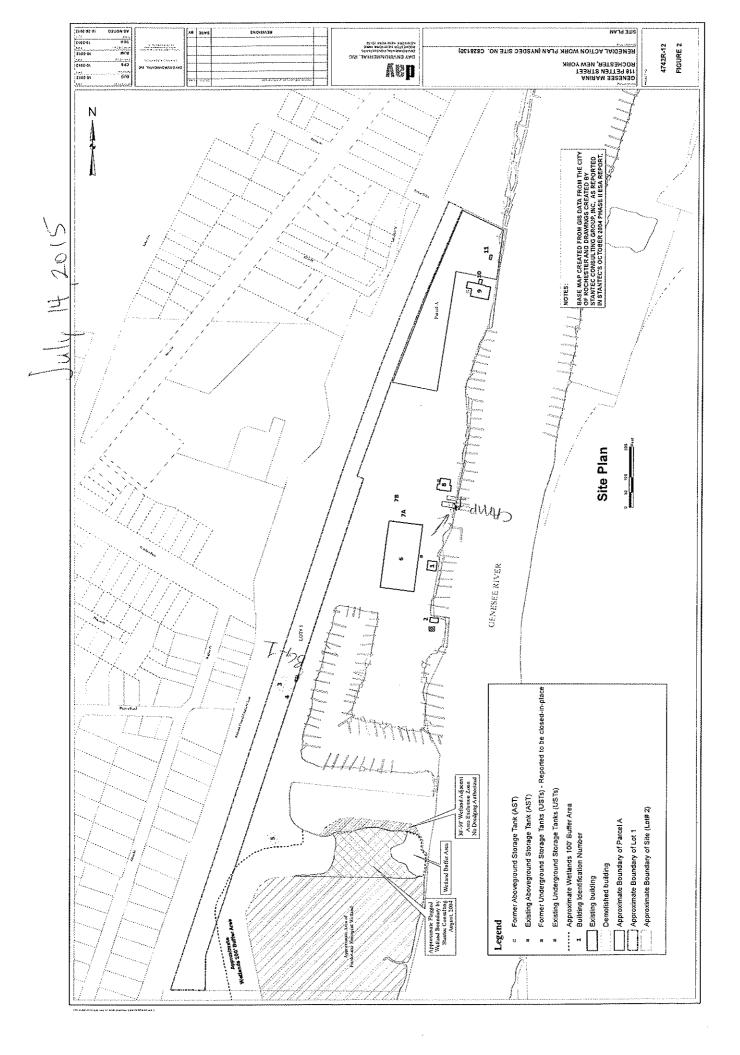
DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary P:\My Documents\Field Forms

14	AIR MONITORING REPORT SHEET (Continued)	
DATE: July 1/3th, 2015	PAGE: 2	OF <u>2</u>
JOB#: 5/19R-1	6	

DESCRIPTION CAMP	TIME	LOCATION CAMP-1	PID (ppm) ○. ○	PARTICULATES (mg/m3)
CAMP	1:00	CAMP-1	0.0	0.019
	~			
		,		
			·	

	,			
			<u> </u>	a work area/at property boundary

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary S:/fieldforms/Air Monitoring



APPENDIX E

REMEDIAL DESIGN INVESTIGATION

118 PETTEN STREET,
ROCHESTER, NY

August 2015 (Revised April 2016)



Analytical Report For

Day Environmental, Inc.

For Lab Project ID

160803

Referencing

5119R-15/Genmar

Prepared

Thursday, March 03, 2016

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958



Client: <u>Day Environmental, Inc.</u>

Project Reference: 5119R-15/Genmar

Sample Identifier: WC-26-02-2016

Lab Sample ID:160803-01Date Sampled:2/26/2016Matrix:WastewaterDate Received:2/26/2016

Semi-Volatile Organics (Acid/Base Neutrals)

<u>Analyte</u>	Result	<u>Units</u>	Qualifier	Date Analyzed
1,2,4-Trichlorobenzene	< 10.0	ug/L		3/2/2016 17:19
1,2-Dichlorobenzene	< 10.0	ug/L		3/2/2016 17:19
1,3-Dichlorobenzene	< 10.0	ug/L		3/2/2016 17:19
1,4-Dichlorobenzene	< 10.0	ug/L		3/2/2016 17:19
2,4,6-Trichlorophenol	< 10.0	ug/L		3/2/2016 17:19
2,4-Dichlorophenol	< 10.0	ug/L		3/2/2016 17:19
2,4-Dimethylphenol	< 10.0	ug/L		3/2/2016 17:19
2,4-Dinitrophenol	< 20.0	ug/L		3/2/2016 17:19
2,4-Dinitrotoluene	< 10.0	ug/L		3/2/2016 17:19
2,6-Dinitrotoluene	< 10.0	ug/L		3/2/2016 17:19
2-Chloronaphthalene	< 10.0	ug/L		3/2/2016 17:19
2-Chlorophenol	< 10.0	ug/L		3/2/2016 17:19
2-Nitrophenol	< 10.0	ug/L		3/2/2016 17:19
3,3'-Dichlorobenzidine	< 10.0	ug/L		3/2/2016 17:19
4,6-Dinitro-2-methylphenol	< 20.0	ug/L		3/2/2016 17:19
4-Bromophenyl phenyl ether	< 10.0	ug/L		3/2/2016 17:19
4-Chloro-3-methylphenol	< 10.0	ug/L		3/2/2016 17:19
4-Chlorophenyl phenyl ether	< 10.0	ug/L		3/2/2016 17:19
4-Nitrophenol	< 20.0	ug/L		3/2/2016 17:19
Acenaphthene	< 10.0	ug/L		3/2/2016 17:19
Acenaphthylene	< 10.0	ug/L		3/2/2016 17:19
Anthracene	< 10.0	ug/L		3/2/2016 17:19
Benzidine	< 20.0	ug/L		3/2/2016 17:19
Benzo (a) anthracene	< 10.0	ug/L		3/2/2016 17:19
Benzo (a) pyrene	< 10.0	ug/L		3/2/2016 17:19
Benzo (b) fluoranthene	< 10.0	ug/L		3/2/2016 17:19
Benzo (g,h,i) perylene	< 10.0	ug/L		3/2/2016 17:19
Benzo (k) fluoranthene	< 10.0	ug/L		3/2/2016 17:19
Bis (2-chloroethoxy) methane	< 10.0	ug/L		3/2/2016 17:19

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt. Page 2 of 9



Client: <u>Day Environmental, Inc.</u>

Project Reference: 5119R-15/Genmar

Sample Identifier:	WC-26-02-2016				
Lab Sample ID:	160803-01		Date Sampled:	2/26/2016	
Matrix:	Wastewater		Date Received:	2/26/2016	
Bis (2-chloroethyl) ethe	er < 10.0	ug/L		3/2/2016	17:19
Bis (2-chloroisopropyl)	ether < 10.0	ug/L		3/2/2016	17:19
Bis (2-ethylhexyl) phtha	alate < 10.0	ug/L		3/2/2016	17:19
Butylbenzylphthalate	< 10.0	ug/L		3/2/2016	17:19
Chrysene	< 10.0	ug/L		3/2/2016	17:19
Dibenz (a,h) anthracene	< 10.0	ug/L		3/2/2016	17:19
Diethyl phthalate	< 10.0	ug/L		3/2/2016	17:19
Dimethyl phthalate	< 20.0	ug/L		3/2/2016	17:19
Di-n-butyl phthalate	< 10.0	ug/L		3/2/2016	17:19
Di-n-octylphthalate	< 10.0	ug/L		3/2/2016	17:19
Fluoranthene	< 10.0	ug/L		3/2/2016	17:19
Fluorene	< 10.0	ug/L		3/2/2016	17:19
Hexachlorobenzene	< 10.0	ug/L		3/2/2016	17:19
Hexachlorobutadiene	< 10.0	ug/L		3/2/2016	17:19
Hexachlorocyclopentad	iene < 10.0	ug/L		3/2/2016	17:19
Hexachloroethane	< 10.0	ug/L		3/2/2016	17:19
Indeno (1,2,3-cd) pyren	e < 10.0	ug/L		3/2/2016	17:19
Isophorone	< 10.0	ug/L		3/2/2016	17:19
Naphthalene	< 10.0	ug/L		3/2/2016	17:19
Nitrobenzene	< 10.0	ug/L		3/2/2016	17:19
N-Nitrosodimethylamin	e < 10.0	ug/L		3/2/2016	17:19
N-Nitroso-di-n-propyla	mine < 10.0	ug/L		3/2/2016	17:19
N-Nitrosodiphenylamin	e < 10.0	ug/L		3/2/2016	17:19
Pentachlorophenol	< 20.0	ug/L		3/2/2016	17:19
Phenanthrene	< 10.0	ug/L		3/2/2016	17:19
Phenol	< 10.0	ug/L		3/2/2016	17:19
Pyrene	< 10.0	ug/L		3/2/2016	17:19



Client: <u>Day Environmental, Inc.</u>

Project Reference: 5119R-15/Genmar

Sample Identifier: WC-26-02-2016

Lab Sample ID:160803-01Date Sampled:2/26/2016Matrix:WastewaterDate Received:2/26/2016

<u>Surrogate</u>	Percent Recovery	<u>Limits</u>	<u>Outliers</u>	Date Anal	yzed
2,4,6-Tribromophenol	72.1	36.8 - 127		3/2/2016	17:19
2-Fluorobiphenyl	40.7	20.3 - 108		3/2/2016	17:19
2-Fluorophenol	33.2	6.08 - 107		3/2/2016	17:19
Nitrobenzene-d5	56.5	48 - 101		3/2/2016	17:19
Phenol-d5	25.0	0 - 106		3/2/2016	17:19
Terphenyl-d14	73.7	52.7 - 113		3/2/2016	17:19

Method Reference(s):EPA 625Preparation Date:3/2/2016Data File:B10491.D

Volatile Organics

<u>Analyte</u>	Result	<u>Units</u>	Qualifier	Date Anal	yzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/29/2016	14:53
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/29/2016	14:53
1,1,2-Trichloroethane	< 2.00	ug/L		2/29/2016	14:53
1,1-Dichloroethane	< 2.00	ug/L		2/29/2016	14:53
1,1-Dichloroethene	< 2.00	ug/L		2/29/2016	14:53
1,2-Dichlorobenzene	< 2.00	ug/L		2/29/2016	14:53
1,2-Dichloroethane	< 2.00	ug/L		2/29/2016	14:53
1,2-Dichloropropane	< 2.00	ug/L		2/29/2016	14:53
1,3-Dichlorobenzene	< 2.00	ug/L		2/29/2016	14:53
1,4-Dichlorobenzene	< 2.00	ug/L		2/29/2016	14:53
2-Chloroethyl vinyl Ether	< 10.0	ug/L		2/29/2016	14:53
Benzene	< 1.00	ug/L		2/29/2016	14:53
Bromodichloromethane	< 2.00	ug/L		2/29/2016	14:53
Bromoform	< 5.00	ug/L		2/29/2016	14:53
Bromomethane	< 2.00	ug/L		2/29/2016	14:53
Carbon Tetrachloride	< 2.00	ug/L		2/29/2016	14:53
Chlorobenzene	< 2.00	ug/L		2/29/2016	14:53
Chloroethane	< 2.00	ug/L		2/29/2016	14:53
Chloroform	< 2.00	ug/L		2/29/2016	14:53
Chloromethane	< 2.00	ug/L		2/29/2016	14:53

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Client: <u>Day Environmental, Inc.</u>

Project Reference: 5119R-15/Genmar

Sample Identifier:	WC-26-02-20	016					
Lab Sample ID:	160803-01			Dat	te Sampled:	2/26/2016	
Matrix:	Wastewater			Dat	te Received:	2/26/2016	
cis-1,3-Dichloropropen	e	< 2.00	ug/L			2/29/2016	14:53
Dibromochloromethane	ė	< 2.00	ug/L			2/29/2016	14:53
Ethylbenzene		< 2.00	ug/L			2/29/2016	14:53
Methylene chloride		< 5.00	ug/L			2/29/2016	14:53
Tetrachloroethene		< 2.00	ug/L			2/29/2016	14:53
Toluene		< 2.00	ug/L			2/29/2016	14:53
trans-1,2-Dichloroether	ne	< 2.00	ug/L			2/29/2016	14:53
trans-1,3-Dichloroprop	ene	< 2.00	ug/L			2/29/2016	14:53
Trichloroethene		< 2.00	ug/L			2/29/2016	14:53
Trichlorofluoromethan	e	< 2.00	ug/L			2/29/2016	14:53
Vinyl chloride		< 2.00	ug/L			2/29/2016	14:53
Surrogate		P	ercent Recovery	<u>Limits</u>	Outliers	Date Analy	zed
1,2-Dichloroethane-d4			104	81.6 - 118		2/29/2016	14:53
4-Bromofluorobenzene			83.5	79.5 - 115		2/29/2016	14:53
Pentafluorobenzene			89.0	91.4 - 111	*	2/29/2016	14:53
Toluene-D8			92.0	89.8 - 108		2/29/2016	14:53

Method Reference(s): EPA 624

Data File: x29867.D

The analyte 2-Chloroethyl vinyl Ether does not recover from acid preserved VOA vials.



Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

- "<" = Analyzed for but not detected at or above the quantitation limit.
- "E" = Result has been estimated, calibration limit exceeded.
- "Z" = See case narrative.
- "D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
- "M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
- "B" = Method blank contained trace levels of analyte. Refer to included method blank report.
- "J" = Result estimated between the quantitation limit and half the quantitation limit.
- "L" = Laboratory Control Sample recovery outside accepted QC limits.
- "P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
- "NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
- "*" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.
- "(1)" = Indicates data from primary column used for QC calculation.
- "A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
- "F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

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GENERAL TERMS AND CONDITIONS LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on guotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to reperform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.

Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any

environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises. Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

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Report Prepared Thursday, March 03, 2016



CHAIN OF CUSTODY

				Report Supplements	2	nd Time	Turnaround Time
in	- 2/26/16 1535hu m	20					10
					- ·		9
	y pa			1			8
		-1,1					7
							6
							5
							4
				2 12 E			3
							2
3	71	× ×	NN NN	WC-26-02-2016	×	25:22	1 Heb 40/16
PARADIGM LAB SAMPLE NUMBER	REMARKS	Augeglie Organic Svocs 625	X − X − D ≤	SAMPLE IDENTIFIER	m → − 0 0 0 ≤ 0 0	TIME COLLECTED	DATE COLLECTED
		REQUESTED ANALYSIS					March Control of Control
OL - Oil AR - Air	SD - Solid WP - Wipe PT - Paint CK - Caulk	DW - Drinking Water SO - Soil WW - Wastewater SL - Sludge	WA - Water WG - Groundwater	NQ - Non-Aqueous Liquid NQ - Non-Aqueous Liquid	Mar	511912-15/Genmar	51191
imailine	include of principles		ATTN:	ATTIN JEPT Dan inge		PROJECT REFERENCE	PROJ
	Email:		PHONE:	454-0210	11 7		
	Quotation #:	STATE: ZIP:	14606 CITY	Rochester NITE			
Pa	160802	iss:	ADDRESS:	ADDRESS: 63 Lyell Ave			
ge 8 o	LAB PROJECT ID	INVOICE TO:	CLIENT	REPORT TO:		PARADIGM	PA
f 9			15)				

Rush 2 day Rush 3 day

Category A

NYSDEC EDD Basic EDD

Feb 26,2016/ Date/Time Teb 26,206/

18:35

Total Cost:

Date/Time

Category B

Batch QC

Standard 5 day

Availability contingent upon lab approval; additional fees may apply.

Rush 1 day

Other please indicate:

Other

please indicate:

Other EDD please indicate:

Received @ Lab By

21/2



Chain of Custody Supplement

Client:	Day	Completed by:	molenail		
Lab Project ID:	160803	Date:	2/26/16		
Sample Condition Requirements Per NELAC/ELAP 210/241/242/243/244					
Condition	NELAC compliance with the sampl Yes	e condition requirements upo No	on receipt N/A		
Container Type Comments					
Transferred to method- compliant container Headspace (<1 mL) Comments	VOA-				
Preservation Comments	VOA		SVOA		
Chlorine Absent (<0.10 ppm per test strip) Comments	VOA: CI	neg,			
Holding Time Comments			,		
Temperature Comments	2°C 2/26	16 1535 hs			
Sufficient Sample Quantity Comments					
· -					

APPENDIX F

REMEDIAL DESIGN INVESTIGATION

118 PETTEN STREET,
ROCHESTER, NY

APRIL 2016

CK # 14505

SPECIALTY SHORT TERM DISCHARGE PERMIT

County of Monro	oe Pure Waters District No. <u>8575</u>	ST-Permit No: $67-305$
		ST- Permit No: <u>67-30</u> 5 Expires: <u>4/15/16</u>
Address	Day Environmental, Inc. 1563 Lyell Avenue Rochester, New York 14606	
Type of Busines	s or Service <u>Environmental Consulting</u>	
thereto as applie Pure Waters requ AB	med applicant is permitted to discharge wastes into the d for by an application dated and verifuires the following terms and conditions to govern the pe	ried by the applicant except the Director of rmitted discharge:
1. Accept and a regulations now 2. Notify the D industrial wastes increase or decrewere not listed in 3. Furnish the D sewer or drain for 4. Operate and republic sewer County. 5. Cooperate wi wastes, or the factor of the public sewer County.	further agrees to: abide by all provisions of the Sewer Use Law of Mornin force or shall be adopted in the future. irector of Pure Waters in writing of any revision to the discharge to the public sewers as listed in the applicate ease in average daily volume or strength of wastes listed in the application. irector of Pure Waters upon request any additional infortor which this permit is sought. Inaintain any waste pretreatment facilities, as may be request of the industrial wastes involved, in an efficient many that the Director of Pure Waters or his representatives in cilities provided for pretreatment. Director of Pure Waters immediately of any accident, ther occurrence that occasions discharge to the public separation.	he plant sewer system or any change in ion. The latter encompasses either (1) and in the application or (2) new wastes that mation related to the installation or use of uired as a condition of the acceptance into ner at all times, and at no expense to the interior their inspecting, sampling, and study of negligence, breakdown of pretreatment.
Applicant's Nan	ne (please print) <u>David D. Day</u>	
Applicant's Sign	ature Aunto Day, Pres.	Date 3/14/16
Applicant's Title	President .	Phone <u>(585) 454-0210</u>
Emergency Con	tactJeff Danzinger	Phone <u>(585) 454-0210</u>
Renewal Approved	by: Michael J Garland, P.E. Director of Environmental Services-Pure Waters Monroe County	day of MARCH20 [6.

COUNTY OF MONROE SEWER USE PERMIT ENCLOSURE

Day Environmental 1563 Lyell Ave Rochester, NY 14606 PERMIT NUMBER: ST-305 DISTRICT NUMBER: 8575

SITE LOCATION: Genesee Marina

118 Petten Street Rochester, NY

TYPE OF BUSINESS: Operating Marina SAMPLE POINT: Two 55-gal Drums

REQUIRED MONITORING

SELF MONITORING FREQUENCY:

Each and every batch discharge

SAMPLING PROTOCOL: Sampling and analysis shall be performed in accordance with the techniques prescribed in 40 CFR Part 136 and amendments thereto. In the absence of 40 CFR Part 136 testing methodology, a New York State Department of Health, approved method is acceptable. A representative grab sample, collected from the above noted sample point shall be analyzed for the following:

Analyte

Limit

Semi-Volatile Organic Compounds Purgeable Organics

*

* The summation of all Semi-volatile organic compounds and Purgeable Organics reported greater than 10 $\mu g/l$ shall not exceed 2.13 mg/L.

SPECIAL CONDITIONS:

- 1. A discharge location must be approved by Monroe County at the Van Lare Waste Water Treatment Facility.
- 2. Monroe County staff must be notified prior to discharge event.
- 3. All future discharges must be approved by Monroe County.