



SAILORS ENGINEERING ASSOCIATES, INC.

1675 SPECTRUM DRIVE • LAWRENCEVILLE, GEORGIA 30043 • TEL (770) 962-5922 • FAX 962-7964

**FIRST SEMI-ANNUAL VRP PROGRESS REPORT
FORMER WESTSIDE CLEANERS
700 SANDTOWN ROAD
MARIETTA, COBB COUNTY, GEORGIA**

**HSI #10927
SEA JOB #152-026**

**SUBMITTED:
DECEMBER 30, 2016**



SAILORS ENGINEERING ASSOCIATES, INC.

1675 SPECTRUM DRIVE • LAWRENCEVILLE, GEORGIA 30043 • TEL (770) 962-5922 • FAX (770) 962-7964

December 30, 2016

Ms. Carolyn Daniels
Georgia Department of Natural Resources
Environmental Protection Division
205 Butler Street, S.E.
Floyd Towers East, Suite 1054
Atlanta, GA 30334

RE: First Semi-Annual VRP Progress Report
Former Westside Cleaners
700 Sandtown Road
Marietta, Cobb County, Georgia
HSI #10927
SEA Job No. 152-018

Dear Ms. Daniels:

In accordance with the June 30, 2016 Voluntary Remediation Plan Approval Letter, Sailors Engineering Associates, Inc. (SEA) appreciates this opportunity to submit this First Semi-Annual VRP Progress Report on behalf of YNH Properties, LLC for the Former Westside Cleaners Site, HSI #10927 located in Marietta, Cobb County, Georgia. Many of the June 30, 2016 Review Comments were addressed in this progress report. The remaining comments will be addressed in future progress reports.

I certify, under penalty of law, that the enclosed electronic copy is complete, identical to the paper copy, and virus free.

If you have any questions or require any additional information, please contact us at your convenience.

Respectfully submitted,

SAILORS ENGINEERING ASSOCIATES, INC.

Michael J Haller, P.G.
Manager, Environmental Engineering

cc: Mr. Yi, Se Hong, Managing Member, YNH Properties, LLC.

Georgia Professional Certification Form

"I certify under penalty of law that this report and all attachments were prepared by me or under my direct supervision in accordance with the Voluntary Remediation Program Act (O.C.G.A. Section 12-8-101, et seq.). I am a professional engineer/professional geologist who is registered with the Georgia State Board of Registration for Professional Engineers and Land Surveyors/Georgia State Board of Registration for Professional Geologists and I have the necessary experience and am in charge of the investigation and remediation of this release of regulated substances.

The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Michael J Haller P.G. Number 1062
Printed Name and GA PE/PG Number

12/30/2016
Date





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1.0 INTRODUCTION

1.1 Purpose

The purpose of this First Semi-Annual Voluntary Remediation Program Progress Report is to discuss the actions taken since the initial Voluntary Remediation Program (VRP) application.

1.2 Background

As part of a due diligence investigation conducted in March 2013, soil and groundwater samples were collected from the area immediately around the former dry cleaner building. Results of that investigation indicated impacts to soil and groundwater from dry cleaning solvents. On August 7, 2013 a release notification was submitted to the Georgia EPD Hazardous Site Response Program and the site was subsequently placed on the Hazardous Site Inventory as Site Number 10927 on November 22, 2013. The VRP application (the Application) submitted for Former Westside Cleaners located at 700 Sandtown Road in Marietta, Cobb County, Georgia; HSI #10927, dated October 30, 2015 was approved on June 30, 2016. As discussed in the Application, in addition to direct excavation and chemical oxidation to reduce contaminant concentrations, engineering and/or institutional controls may be used to minimize the potential for exposure.

1.3 Site Description

The subject property, located at 700 Sandtown Road in Marietta, Cobb County Georgia, is approximately 6.267 acres in size and is currently owned by YNH Properties, LLC. A former dry cleaners, Westside Cleaners, was located in an approximately 4,000 square foot, stand-alone building in the northwestern portion of the Westside Plaza Shopping Center. The building most recently operated as a coin laundry and is currently vacant. The subject property is bordered on the north by Powder Springs Road, beyond which are various commercial properties; on the west from north to south by commercial property at 721 Powder Springs Road occupied by various businesses followed by two undeveloped commercial tracts with the addresses of 840 and 844 Sandtown Road; on the south by a commercial tract at 814 Sandtown Road occupied by Capper-McCall Company, beyond which is the western portion of Pine Haven Mobile Home Park at 848 Sandtown Road; and to the east by a commercial property at 690 Sandtown Road located at the southwestern quadrant of the Powder Springs Road-Sandtown Road intersection followed by Sandtown Road, beyond which are various small commercial tracts.

The subject property was developed as a strip mall shopping center from approximately 1963 through 1972, based on Cobb County property records, aerial photographs and a review of previous reports prepared for the site. The shopping center is comprised of two buildings. The larger building, located along the western property boundary appears to have been built in two stages, with the northern half built in 1963 and the southern half built in 1972. A large asphalt-paved parking area separates the large retail building from Sandtown Road. The second, smaller building at 700 Sandtown Road is located on the northwest corner of the subject property along Powder Springs Road and appears to have been built in 1963. According to the Phase I ESA

prepared by BAT, Westside Cleaners occupied the building from 1961 through 2006 or 2007. This building was last occupied by Westside Coin Laundry.

1.4 Previous Investigations

- Due Diligence Investigation by ETRI March, 2013

Soil borings B1 through B3 were performed in the vicinity of the dry cleaner building. One soil sample and one groundwater sample from each boring were submitted for volatile organic compound (VOC) analysis. Concentrations of dry cleaning solvents and their breakdown products including cis-1,2-dichloroethene (cDCE), tetrachloroethene (PCE) and vinyl chloride (VC) were detected in the soil above the HSRA Notification Concentrations and high concentrations of cDCE, PCE, trans-1,2-dichloroethene (tDCE), trichloroethene (TCE) and VC were detected in the groundwater. Additional soil borings, B4 through B14, were performed to further define the extent of soil impact on the subject property. Groundwater monitoring wells MW-1 through MW-3 were installed in borings B5, B6 and B7, respectively.

- Release Notification for soil and groundwater impacts August 7, 2013
- Listing on HSI November 22, 2013
- Additional Investigation by Sailors Engineering Associates, Inc. (SEA) March, 2015

SEA was retained by YNH Properties, LLC to further define the extent of the soil and groundwater impacts at the subject property and develop a remediation plan. Groundwater monitoring wells MW-4 and MW-5 were installed at downgradient locations on the subject property. Concentrations of PCE detected in MW-5 indicated that the downgradient extent of groundwater impact was not determined. The PCE concentration detected in MW-4 indicates that MW-4 is located cross-gradient to the groundwater impact.

- Impacted Soil Removal June 17 to 24, 2015

Corrective action activities completed to date include the removal and ex-situ treatment of 275 cubic yards of impacted soil from both inside and outside the former dry cleaner building. The excavation was ten feet deep, totaling approximately 680 square feet. The excavated soil was placed in roll-off boxes, tested and treated, if needed, with sodium hydroxide activated sodium permanganate. Three of the roll-off boxes met the disposal criteria set by the landfill without needing treatment and the soil in those boxes was transferred to dump trucks and transported to Eagle Point Landfill in Ball Ground, Georgia for disposal. Following a sufficient time frame to allow the reaction to occur, the remaining roll-off boxes were retested and those meeting the landfill acceptance criteria were transported to Eagle Point Landfill for disposal. Those boxes that did not meet the requirements were retreated. Once the boxes were retested and met the landfill acceptance criteria, they were transported to Eagle Point Landfill for disposal.

The excavation was backfilled with #57 stone to within approximately twelve inches of the subgrade, where eight inches of compacted graded aggregate base (GAB) and four inches of concrete were placed to match the existing floor inside the building and the drive area outside the building. In order to minimize the risk for vapor intrusion, slotted 2-inch diameter PVC pipe was placed horizontally in the trench at a depth of approximately two to three feet below the finished elevation and vented through a vertical 2-inch diameter PVC riser which extends approximately 18 inches above the roof line and was completed with a wind-blown turbine.

- Chemical Oxidation Pilot Study Injections August 18 to 21, 2015

Chemical oxidation was chosen to address the remaining soil impacts and impacts to groundwater. In order to gauge the effectiveness of a chemical oxidation approach, a pilot injection event was conducted between August 18 and 21, 2015 that included the injection of approximately 11,571 pounds of sodium hydroxide activated sodium permanganate dissolved in potable water. The injections were accomplished through 9 soil injection points and 35 groundwater injection points.

- Chemical Oxidation Pilot Study Sampling October and November, 2015

In October 2015, groundwater samples were collected from all five monitoring wells on the subject property and analyzed for VOCs. Reductions of the Contaminants of Concern (COCs) were observed in all wells. In November 2015, soil samples were collected near the locations and depths previously sampled in July 2015, SGP-1 through SGP-4. Soil samples SGP-1A through SGP-4A were collected and analyzed for VOCs. With the exception of some of the PCE breakdown products in SGP-4A, reductions of the COCs were observed in all sample locations.

- VRP Application and VIRP submittal October 30, 2015
- EPD Approval of Application with Review Comments June 30, 2016
- Additional Investigation by SEA October, 2016

Groundwater monitoring well MW-6 was installed downgradient on the subject property and MW-7 and MW-8 were installed downgradient or cross-gradient on an adjoining property to the southwest. Concentrations of PCE detected in MW-6, MW-7, and MW-8 indicate that the downgradient extent of groundwater impact has not been determined.

- 1st VRP Semi-Annual Report submittal December 30, 2016

1.5 Summary of Results

The additional sampling conducted during the first six months has determined that horizontal extent of the plume is not confined to the VRP Property. Further, additional sampling coupled with analysis of existing data show that soil and groundwater conditions at the site are not in compliance with the non-residential Type 3 or Type 4 risk reduction standards (RRS).

2.0 CONCEPTUAL SITE MODEL

2.1 Source Area

The source of the soil and groundwater impacts at the subject property is the activities associated with the operation of the former Westside Cleaners dry cleaning facility. The release route is not known. There are no reports of spills or release events in the records reviewed. The impacts detected in the soil on site appear to be centered in the southwestern corner of the former dry cleaner building, where the dry cleaning machinery was reportedly located.

Based on the presence of both soil and groundwater impacts, the conceptual site model includes a release to soil which has migrated to the water table and resulted in both soil and groundwater impacts. Prior to the recent excavation of the most heavily impacted soils, residual PCE trapped in the soil was continuing to leach into the groundwater. Figures 9, 10 and 11 in Appendix 1 depict updated cross sectional and plan views of the Conceptual Site Model.

2.2 Contaminant Transport

The primary contaminant transport mechanisms at this site are continued leaching from any remaining soil impacts, vapor off-gassing from soil and groundwater impacts and advection and dispersion of contaminants through groundwater flow.

2.3 Potential Receptors

The potential human exposure routes associated with this release include direct exposure to impacted soil through construction work, primarily potential future underground utility work, and potential vapor exposure to site occupants. No drinking water wells in the immediate area have been identified. The nearest surface water body, located approximately 300 feet southwest of the subject property, is possibly in the groundwater flow path and could be a potential receptor. The nearest surface water body and the nearest residence are depicted on Figure 2 in Appendix 1. A Potential Receptor Survey is included in Appendix 8.

No ecological receptors have been identified.

2.4 Exposure Pathways

Based on the current assessment of the subject property, the complete exposure pathways include the potential inhalation of vapors from soil and groundwater. No other complete exposure routes are present. Incomplete routes include exposure to impacted groundwater and exposure to

impacted soils. No impacted groundwater withdrawals are occurring, and the known area of soil impacts is currently capped with an impervious cover of asphalt and concrete.

3.0 SEMI-ANNUAL GROUNDWATER MONITORING EVENT

Three monitoring wells were sampled as part of the semi-annual sampling event. These locations represent downgradient wells. The recently installed downgradient monitoring wells located on the subject property (MW-6) and an adjacent property to the west (MW-7 and MW-8) were sampled during this event. The wells were used to determine the horizontal extent of the contaminant plume. The groundwater monitoring wells were purged using a precleaned peristaltic pump. Parameter stabilization was used to determine when the well had been adequately purged prior to sampling.

3.1 Groundwater Monitoring Well Installation

On October 5, 2016, SEA mobilized an ATV-mounted drilling rig to install the three additional horizontal delineation groundwater monitoring wells as proposed. Due to the difficult locations of the other wells, only one well was installed at that time. Monitoring well, MW-6, was installed approximately 150 feet south or downgradient of MW-5 on the subject property. The boring was advanced in unconsolidated media using hollow-stem auger drilling techniques (nominal 4.25-inch ID) that will produce an 8-inch diameter borehole. Since soil sampling was not performed, a wooden plug was placed in the auger head to prevent soil cuttings from entering the interior of the augers. The boring was terminated at 29 feet below the ground surface (bgs). The groundwater monitoring well was constructed using precleaned, individually wrapped 2-inch diameter Schedule 40 PVC well screen and casing within the auger string. One ten-foot section of 0.010-inch slotted screen was installed and brought to the ground surface with one ten-foot and one 8.5-foot section of solid PVC riser. A lockable, watertight cap was used to seal the well casing. The annulus, the area between the well screen and the wall of the boring, was backfilled with washed and sorted filter sand by slowly pouring the sand through the augers to approximately two feet above the well screen. To seal the filter pack, bentonite chips were slowly poured into the annulus to approximately 1.5 feet bgs. The bentonite was allowed to hydrate prior to surface completion. MW-6 was developed by the over-pumping technique using a variable-speed 12 Volt Proactive Hurricane submersible pump. A well development log was not produced since the well contained little water and was repeatedly pumped dry.

A surface seal of concrete that extends from below the frost line to the surface where a square apron is formed extending outward at least 18 inches from the edge of the borehole was constructed at MW-6. A protective well cover or manhole was placed over the well casing within the concrete apron. The manhole is of flush-mount design constructed of cast iron with a bolt-down, 8-inch diameter removable cover with a gasket placed within the 10-inch diameter flanged ring. Attached to the base of the ring is an 8-inch diameter by 10-inch long galvanized steel cylindrical skirt that forms a vault around the top of the well casing. The top of the well casing was cut below the surface to accommodate the manhole set slightly above being flush with the ground surface to allow surface drainage.

On October 20, 2016, SEA mobilized a tracked carrier-mounted drilling rig to install the two additional horizontal delineation groundwater monitoring wells. Monitoring well MW-7 was installed approximately 90 feet south-southwest or downgradient of MW-6, and MW-8 was installed approximately 45 feet south-southeast or downgradient of MW-7. Both wells are located behind the building on an adjacent property to the west. Borings MW-7 and MW-8 were advanced in unconsolidated media using hollow-stem auger drilling techniques and were both terminated at 25.0 feet bgs. Groundwater monitoring wells MW-7 and MW-8 were constructed and developed in the same manner as MW-6 discussed above with the exception of using stand-up well covers. Log of Borings and Well Construction Diagrams are included in Appendix 3.

3.2 Procedure for Installation of Monitoring Wells

Monitoring well installation was performed in general accordance with published protocols including USEPA Region 4 Science and Ecosystem Support Division “Design and Installation of Monitoring Wells” Guidance (SESDGUID-101-R1, January 29, 2013). The drilling rig and tools are steam-cleaned prior to arrival on-site. Laboratory grade Liqui-Nox[®] soap is diluted with potable water and used for the wash. At least 24-hours following installation, the monitoring well is properly developed by removing a minimum of three well volumes of groundwater to ensure the removal of fine-grained sediments from the vicinity of the well screen which allows the water to flow freely from the formation into the well and reduces the turbidity of the water during sampling. Well development is usually performed with a small submersible pump. The water level is measured before and after well development. A boring log and an “as built” well construction diagram is prepared for each monitoring well.

3.3 Groundwater Elevation and Flow Direction

The depth to water in each monitoring well was gauged from the top of the well casing (TOC) using an electronic water level indicator (Slope Indicator 100-foot Water Level Indicator Model No. 51670810). On October 6, 2014 and October 24, 2014, prior to purging and sampling, the depth to water in the new monitoring wells were gauged from the TOC. On December 5, 2016, all eight monitoring wells were gauged. During this monitoring period, the groundwater elevations in MW-2 through MW-5 decreased since March 2015. The groundwater flow direction continues to trend south-southwest toward an unnamed tributary of Olley Creek. The water level data was used to create a potentiometric surface map. A Groundwater Elevation Summary is included in Table 3 of Appendix 2. The current potentiometric surface map is included in Figure 5 of Appendix 1.

3.3.1 General Approach and Procedure for Measuring Groundwater Elevations

Groundwater elevation and well depths were measured in general accordance with published protocol USEPA Region 4 Science and Ecosystem Support Division “Groundwater Level and Well Depth Measurement” Operating Procedure (SESDPROC-105-R2, January 29, 2013). Water levels are measured using an electronic water level indicator accurate to 0.01 feet. Groundwater level measurements are made relative to an established reference point on the TOC identified with a permanent mark. The reference point is tied to an arbitrary datum common to all wells. To minimize the risk of cross-contamination between wells when conducting water

level measurements, the device is decontaminated between wells in accordance with (SESDPROC-205). When possible, water level measurements are conducted from the least suspected contaminated area to the most suspected contaminated area. Total well depth measurements are collected when necessary.

3.3.2 General Approach and Procedures for Groundwater Sampling

Samples were collected in general accordance with published protocols including USEPA Region 4 Science and Ecosystem Support Division “Groundwater Sampling” Operating Procedure (SESDPROC-301-R3, March 6, 2013) with the exception of the recommended tubing material as noted below. Well purging was conducted using either the “*Tubing-in-Screened-Interval*” Method (Section 3.2.2), where the intake was positioned in the approximate mid-portion of the screened interval or the *Purging with Pumps, Peristaltic Pumps* method (Section 3.3.1.1.1), where the intake was placed in the uppermost portion of the water column when the recovery rate was equal to the purge rate. Groundwater samples were obtained from each well directly from *Peristaltic Pump/Vacuum Jug* “soda straw” method B (Section 4.3.1.2) for VOC samples. Due to the relatively high cost of the recommended Teflon[®] tubing, disposable polyethylene tubing was utilized for pump intake and discharge. Disposable silicon tubing was used in the peristaltic pump head. New tubing was used for each well. VOC samples were collected in laboratory supplied 40-ml sample vials preserved with HCL. A Teflon[®]-lined cap was placed on the vial, and the vial was inverted to ensure zero headspace. The samples were immediately packed in ice and transported to the analytical laboratory under chain-of-custody procedures. To minimize the risk of cross-contamination between wells when conducting groundwater sampling, the pumps and instruments are decontaminated between wells, in accordance with (SESDPROC-205). When possible, groundwater sampling was conducted from the least suspected contaminated area to the most suspected contaminated area. Copies of the groundwater sampling logs are included in Appendix 4. Copies of the groundwater laboratory data sheets are included in Appendix 6.

3.4 Decontamination Procedures

All downhole and/or reusable field equipment and instruments were properly decontaminated between wells in general accordance with published protocols including USEPA Region 4 Science and Ecosystem Support Division “Field Equipment Cleaning and Decontamination” Operating Procedure (SESDPROC-205-R2, December 20, 2011). The electronic water level meter was decontaminated following *Well Sounders or Tapes* (Section 3.5), where unless conditions warrant, the wetted portion of the meter was decontaminated using the procedure listed below:

1. Wash with laboratory grade Liqui-Nox[®] detergent diluted with deionized water
2. Rinse with deionized water

The water quality meter was decontaminated following “*Classical Parameter*” *Sampling Equipment* (Section 3.3), where the meter and flow cell was decontaminated by rinsing with deionized water.

3.5 Results

The results of the October 2016 monitoring event indicate the presence of PCE concentrations detected in the downgradient wells. PCE was detected in MW-6 at 0.200 mg/L, in MW-7 at 0.150 mg/L and in MW-8 at 0.058 mg/L. TCE was detected in MW-6 at 0.015 mg/L and in MW-7 at 0.0057 mg/L, and cDCE was detected in MW-6 at 0.150 mg/L, in MW-7 at 0.036 mg/L, and in MW-8 at 0.0094 mg/L. TCE was not detected in MW-8, and tDCE and VC were not detected in the groundwater samples collected from any of these locations. The PCE and TCE concentrations in MW-6 and MW-7 exceed the non-residential Type 4 RRS. Based on these results, it appears that horizontal delineation has not been established. Concentrations of PCE in MW-8 and cDCE in MW-6 exceed the non-residential Type 3 RRS. A groundwater laboratory results summary is included in Table 2 of Appendix 2.

4.0 CORRECTIVE ACTION COMPLETED TO DATE

Corrective action activities completed to date include the removal and ex-situ treatment of 275 cubic yards of impacted soil from both inside and outside the former dry cleaner building. The excavation was ten feet deep, totaling approximately 680 square feet,. The excavation was backfilled with #57 stone to within approximately twelve inches of the subgrade, where four inches of compacted GAB and four inches of concrete were placed to match the existing floor inside the building and the drive area outside the building. In order to minimize the risk for vapor intrusion, slotted 2-inch diameter PVC pipe was placed horizontally in the trench at a depth of approximately two to three feet below the finished elevation and vented through a vertical 2-inch diameter PVC riser which extends approximately 18 inches above the roof line and is completed with a wind-blown turbine.

In order to gauge the effectiveness of a chemical oxidation approach, a pilot injection event was conducted between August 18 and 21, 2015 that included the injection of approximately 11,571 pounds of sodium hydroxide activated sodium permanganate dissolved in potable water. The injections were accomplished through 9 soil injection points and 35 groundwater injection points.

4.1 Effectiveness of Chemical Oxidation Pilot Study

Based on the injection sub-contractor's recommendations, the soil and groundwater samples that were used to gauge the effectiveness of a chemical oxidation remedial approach were collected in October 2015. On October 21 and 22, 2015, groundwater samples were collected from all five monitoring wells on the subject property and analyzed for VOCs. A comparison of the April 2013 and March 2015 with the October 2015 laboratory results indicate that, with the exception of some of the PCE breakdown products in MW-3 and MW-5, reductions of the COCs were observed in all wells. The PCE and VC results in MW-1, MW-2, MW-3, MW-4, and MW-5 decreased during the October 2015 sampling. The TCE and cDCE results in MW-1, MW-2, and MW-4 decreased during the October 2015 sampling. In MW-3, cDCE increased and in MW-5, TCE increased during the October 2015 sampling. The TCE in MW-3 and cDCE in MW-5 had no changes. The increases or no change of daughter products can be the result of incomplete oxidation of COCs. Copies of the groundwater laboratory data sheets are included in Appendix

6. The groundwater laboratory results are depicted on Figure 6 and tabulated on the Table 2 in Appendices 1 and 2, respectively.

On November 9, 2015, SEA collected four soil samples from four hand auger borings (SGP-1A through SGP-4A) in the vicinity of the soil excavation area. The soil samples were collected near the same locations and depths as SGP-1 through SGP-4 collected on July 15, 2015. All soil samples were submitted for laboratory analysis of VOCs. A review of the July 2015 and the November 2015 laboratory results indicate that, with the exception of some of the PCE breakdown products in SGP-4A, reductions of the COCs were observed in all sample locations. The PCE results in SGP-1, SGP-2, SGP-3, and SGP-4 decreased from the July 2015 sampling event. The TCE and cDCE results in SGP-1, SGP-2, and SGP-3 decreased from the July 2015 sampling event. VC results in SGP-1 and SGP-2 decreased from the July 2015 sampling event. In SGP-4 TCE, cDCE, and VC increased from the July 2015 sampling event. The increases of daughter products can be the result of incomplete oxidation of COCs. Copies of the soil laboratory data sheets are included in Appendix 5 and tabulated in Table 1 in Appendix 2. The soil boring locations are depicted on Figures 4 and 5 in Appendix 1.

4.1.1 General Approach and Procedures for Soil Sampling and Analysis

Soil samples were collected in general accordance with published protocols including USEPA Region 4 Science and Ecosystem Support Division Field Branches Quality System and Technical Procedures, and Standard Operating Procedures, Soil Sampling (SESPROC-300-R3, August 21, 2014). Samples were collected by hand auger sampling methods. All soil samples were placed in laboratory supplied sample containers and immediately placed on ice for delivery to the laboratory under written chain-of-custody procedures.

Soil samples were collected with decontaminated sampling equipment. Following retrieval of the samples, a laboratory-supplied syringe was used to collect a volume of soil from the sampling equipment. The syringe is marked for the collection of approximately 3 cc of soil, which is roughly 5 grams +/- 2 grams, in accordance with EPA Method 5035. The soil was then placed in laboratory-supplied, preweighed 40 ml vials containing a magnetic stir bar and sodium bisulfate as a preservative in accordance with EPA Method 5035. The actual weight of soil collected is used in the calculation of the analytical result. An additional 2-ounce jar of soil was collected in accordance with method protocol. All samples were immediately placed on ice for delivery to the laboratory under written chain-of-custody. Soil samples were analyzed by EPA approved Method 5035/8260B for VOCs.

Quality control samples were prepared separately by the laboratory and analyzed during the sampling event. Trip blanks, when supplied by the laboratory, consisted of a 40 ml vial filled with water. The trip blanks were handled and treated in the same manner as the other samples collected and were analyzed for VOCs. Results of the trip blanks are included in the laboratory reports. No compounds were detected in the trip blanks.

5.0 Planned Activities

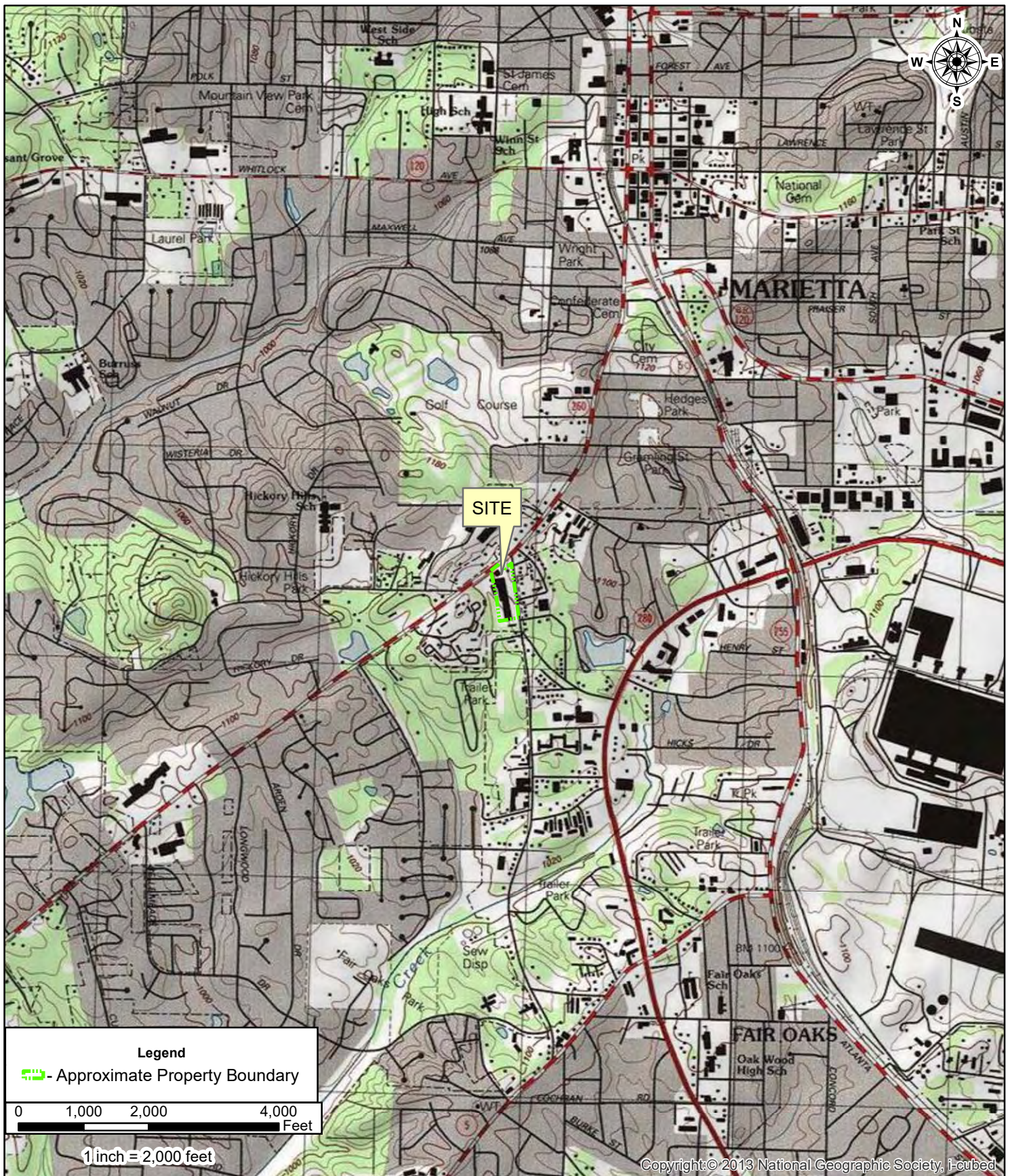
Additional horizontal delineation will be conducted during the first and second quarter of 2017. SEA also plans to initiate the investigation for the potential for vapor intrusion during this period. Following this investigation the Second Semi-Annual VRP Progress Report will be prepared and submitted by June 30, 2017.

6.0 Milestone Schedule

The following milestone schedule outlines significant events as discussed above including historic and anticipated future events. The dates of future events may be accelerated based on the progress of the remedial measures taken. A Gantt chart of the following milestone schedule is included in Appendix 10.

Due Diligence Investigation by ETRI	March, 2013
Release Notification	August 7, 2013
Listing on HSI	November 22, 2013
Additional Investigation by SEA	March, 2015
Impacted Soil Removal	June 17 to 24, 2015
Chemical Oxidation Pilot Study Injections	August 18 to 21, 2015
Chemical Oxidation Pilot Study Sampling	October and November, 2015
VRP Application and VIRP submittal	October 30, 2015
EPD Approval of Application with Review Comments	June 30, 2016
Additional Remedial Measures	As warranted
VRP 1 st Semi-Annual Reports	December 30, 2016
On site horizontal delineation	June 30, 2017
VRP 2 nd Semi-Annual Report	June 30, 2017
Off-site horizontal delineation	June 30, 2018
Vertical Delineation	December 30, 2018
VRP Compliance Status Report	June, 2021

Appendix 1: Figures



Data Sources: 1:24,000 Marietta, Georgia USGS 7.5' topographic map quadrangle courtesy of ESRI Map Services

SEA

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AREA PLAN FIGURE 1

700 SANDTOWN ROAD

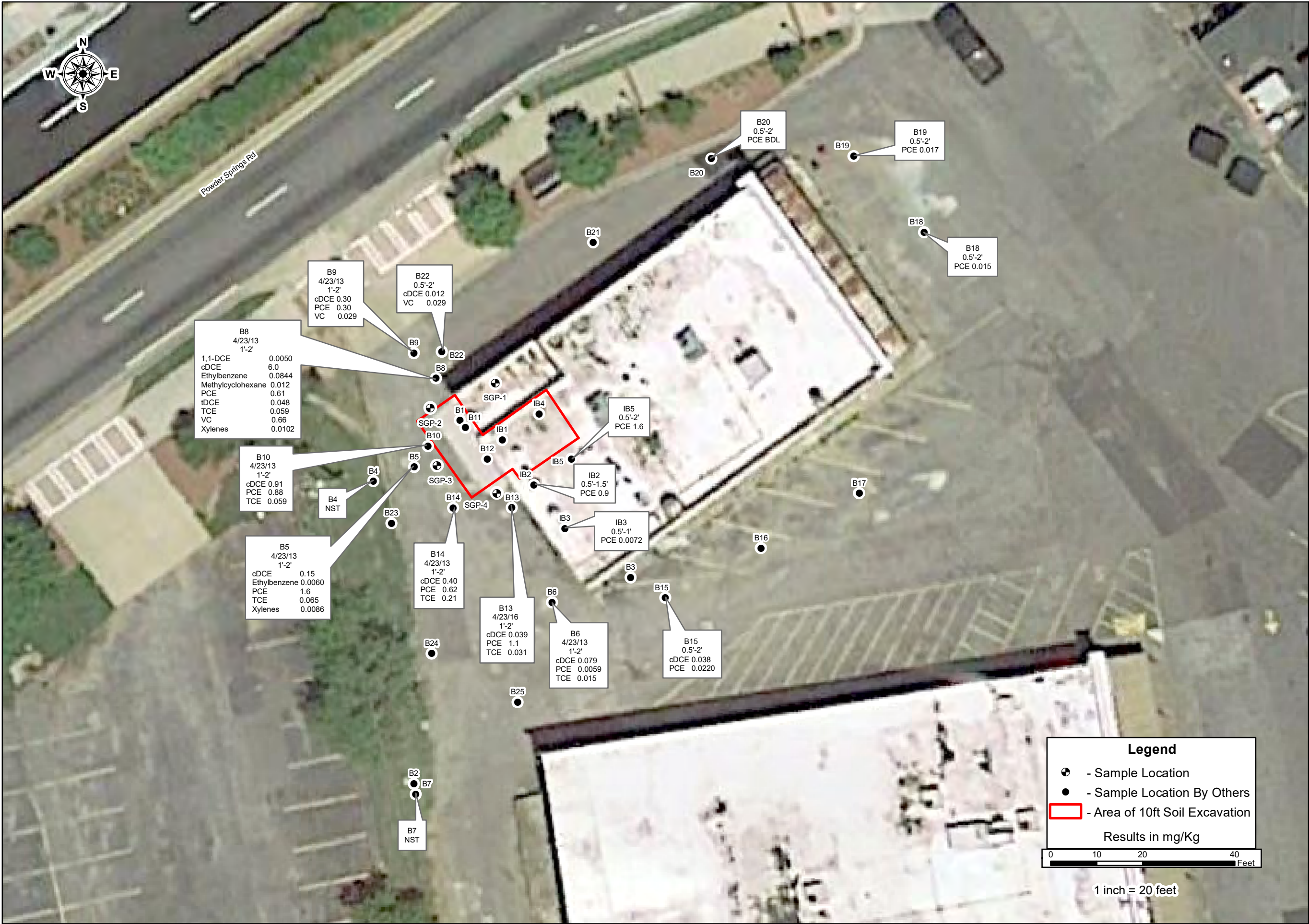
700 Sandtown Road
Marietta, Cobb County, Georgia

Job No. 152-018

12/29/2016







700 SANDTOWN ROAD

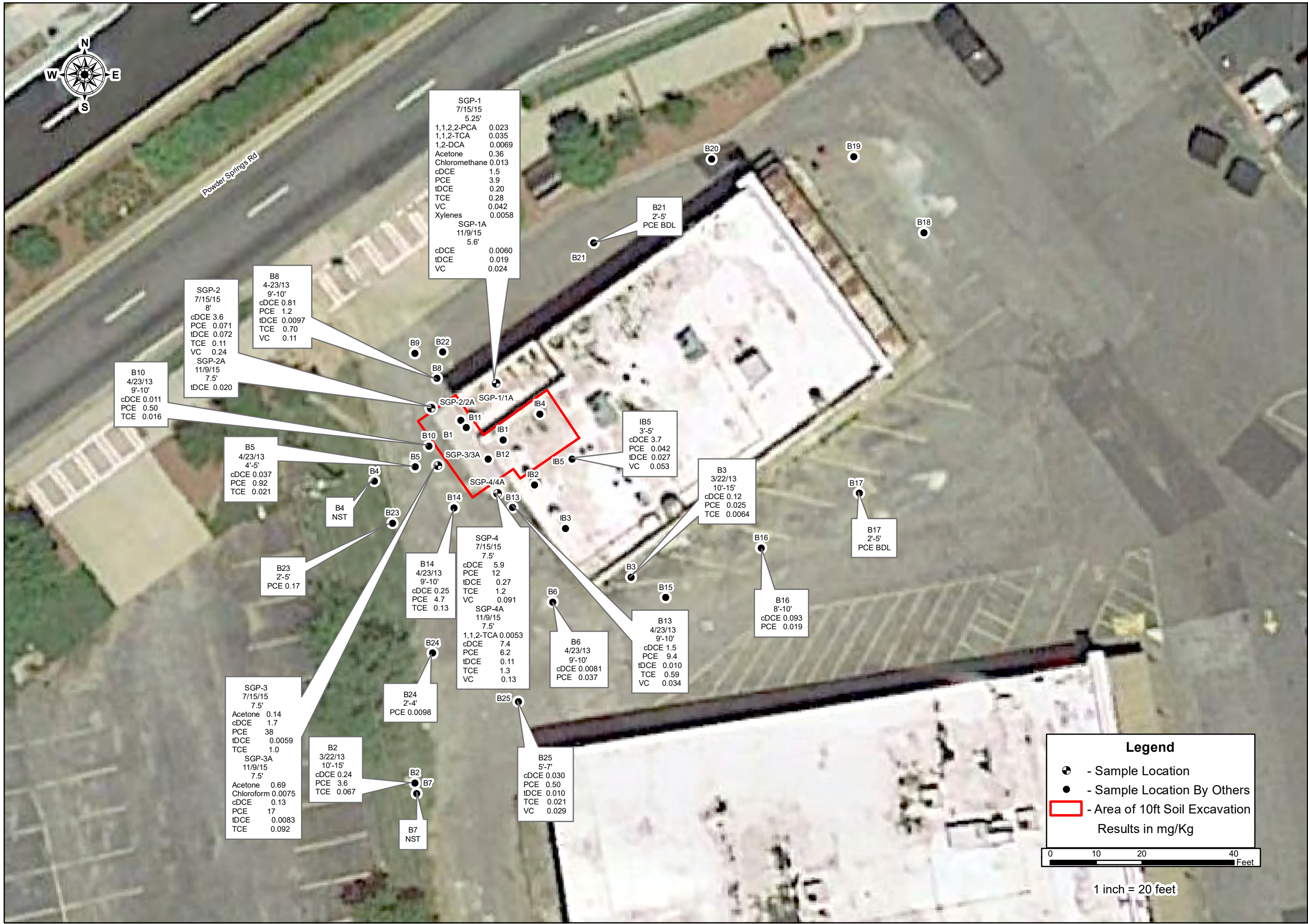
700 Sandtown Road
Marietta, Cobb County, Georgia

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12/20/2016

SOIL IMPACT
SUMMARY
< 2 FEET
FIGURE 4

SAILORS ENGINEERING ASSOCIATES, INC.
ENVIRONMENTAL/GEOTECHNICAL
1675 SPECTRUM DRIVE
LAWRENCEVILLE, GEORGIA 30043
(770) 962-5922 FAX 962-7964



700 SANDTOWN ROAD

700 Sandtown Road
Marietta, Cobb County, Georgia

Job No. 152-018

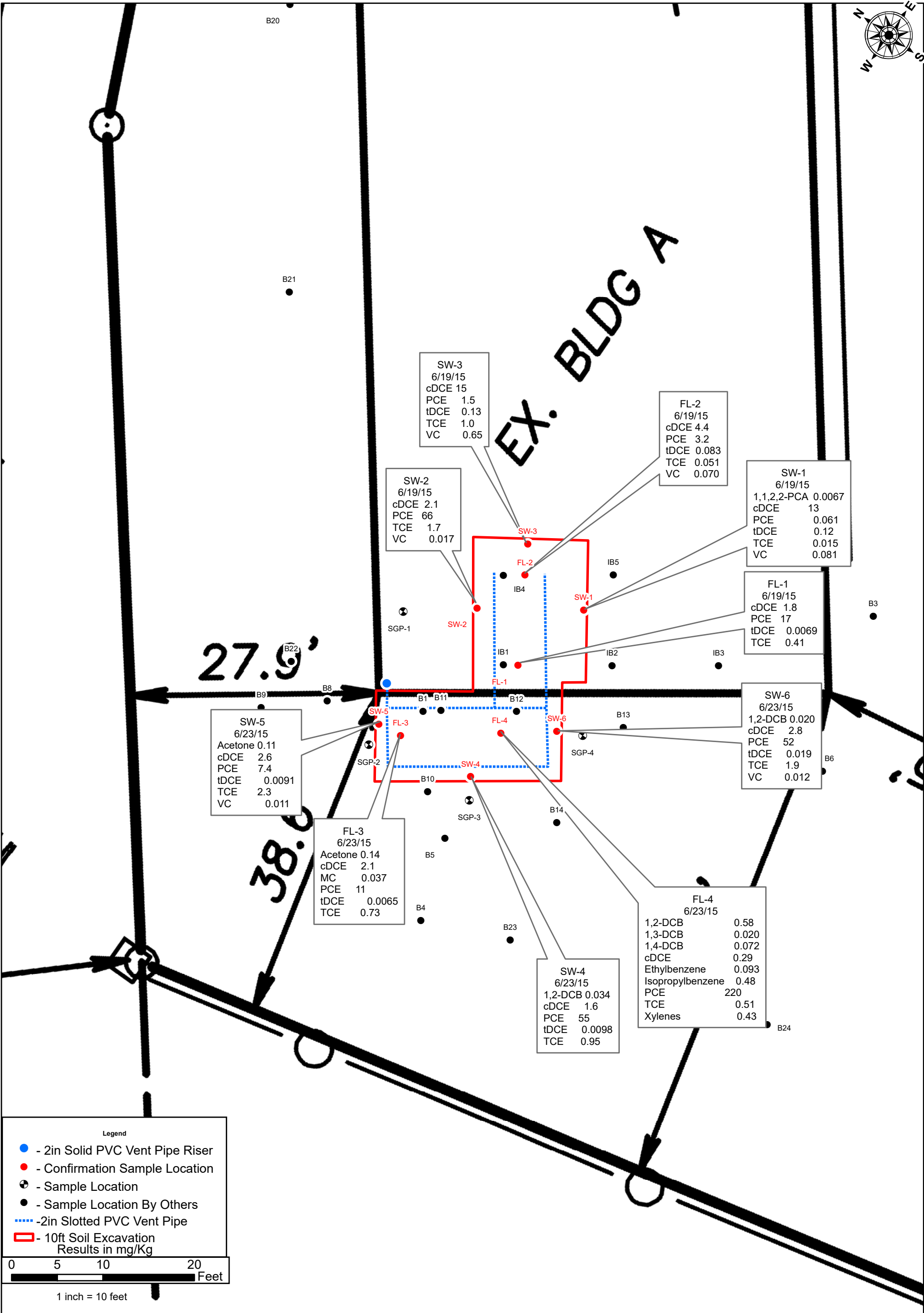
12/29/2016

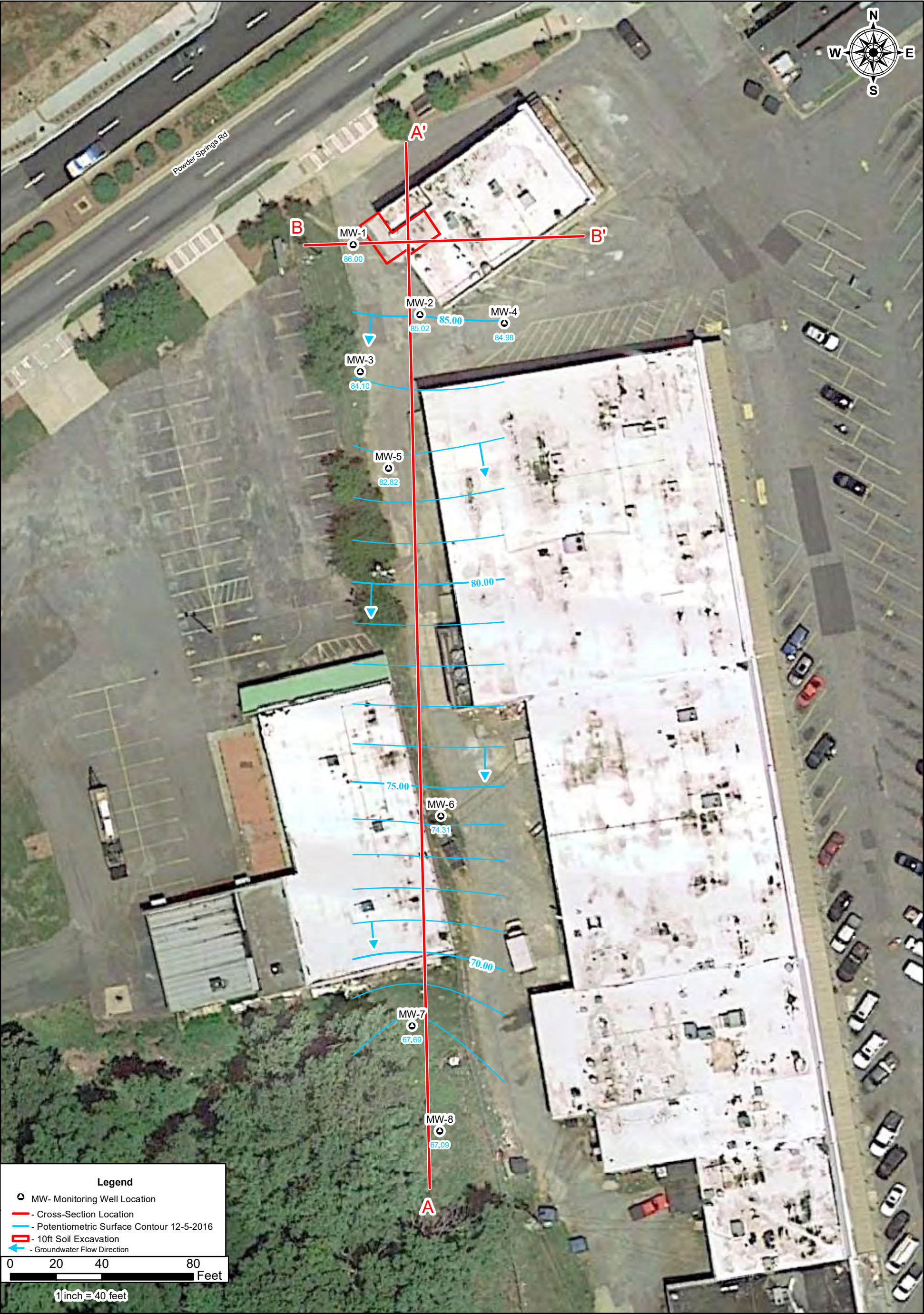
SOIL IMPACT
SUMMARY
>2 FEET
FIGURE 5

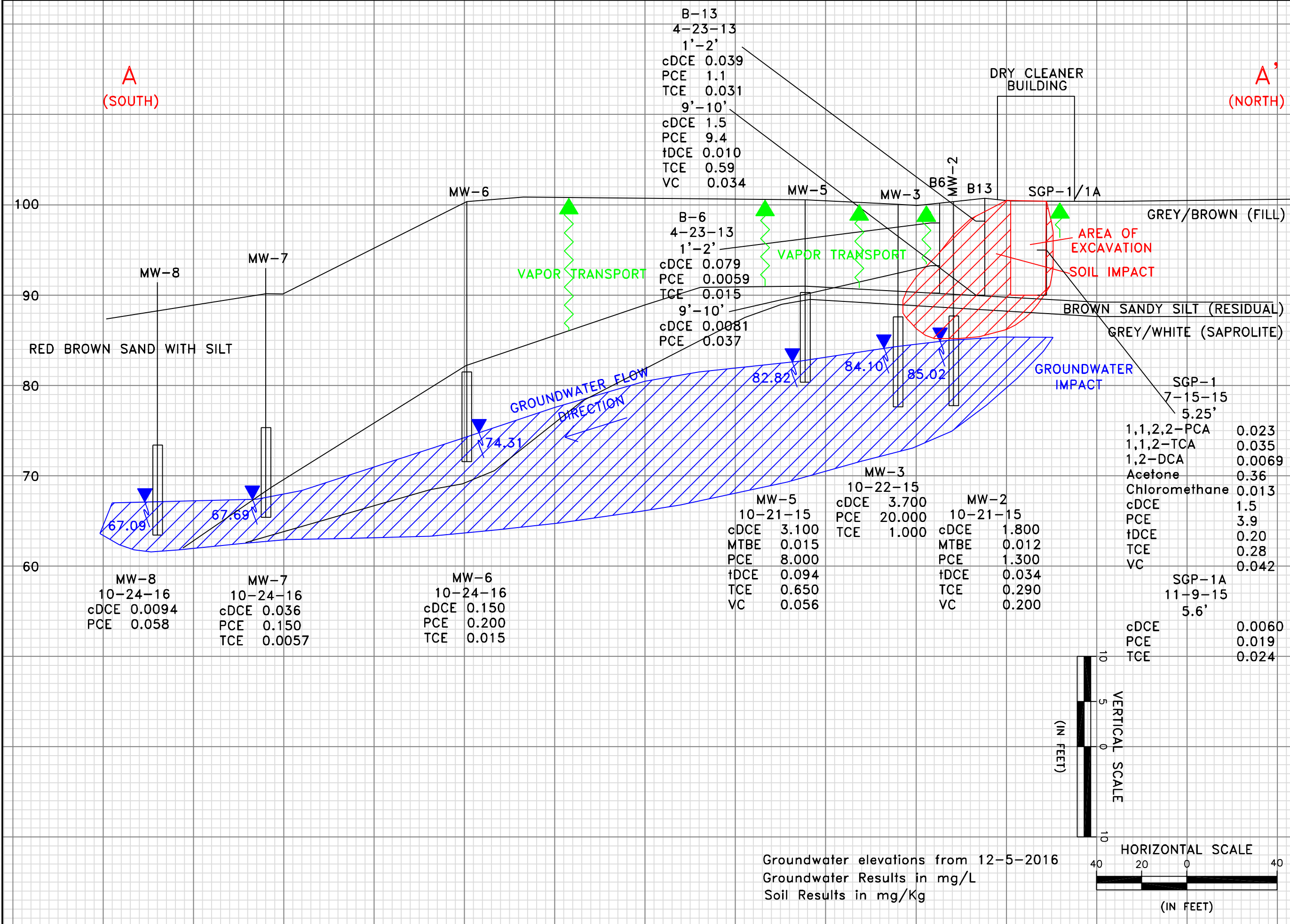
SAILORS ENGINEERING ASSOCIATES, INC.
ENVIRONMENTAL/GEOTECHNICAL
1675 SPECTRUM DRIVE
LAWRENCEVILLE, GEORGIA 30043
(770) 962-5922 FAX 962-7964











CROSS-SECTION A-A'

FIGURE 10

SEA

SAILORS ENGINEERING ASSOCIATES, INC.

ENVIRONMENTAL/GEOTECHNICAL

1675 SPECTRUM DRIVE

LAWRENCEVILLE, GEORGIA 30043

(770) 962-5922 FAX 962-7964

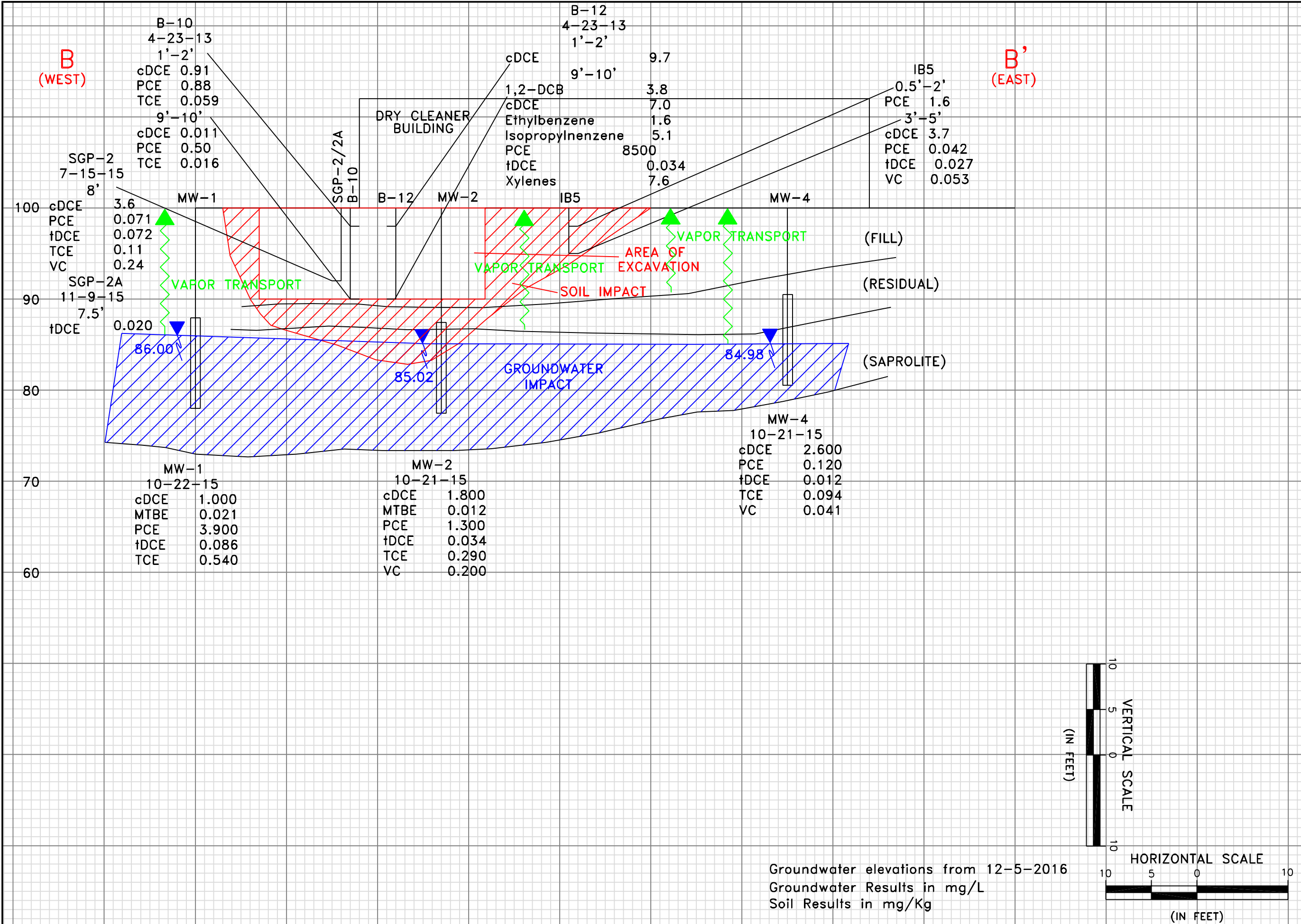
700 SANDTOWN ROAD

700 Sandtown Road

Marietta, Cobb County, Georgia

HSI# 10927

Job No. 152-018



700 SANDTOWN ROAD
700 Sandtown Road
Marietta, Cobb County, Georgia
HSI# 10927
Job No. 152-018

CROSS-SECTION
B-B'
FIGURE 11

SEA
SAILORS
ENGINEERING
ASSOCIATES, INC.
ENVIRONMENTAL/GEOTECHNICAL
1675 SPECTRUM DRIVE
LAWRENCEVILLE, GEORGIA 30043
(770) 962-5922 FAX 962-7964

Appendix 2: Tables

Table-1
Summary of Soil Sample Analyses
Westside Cleaners
700 Sandtown Road, Marietta, Georgia
HSI #10927
SEA Job #152-018

Sample Location	Date	1,1,2,2-PCA	1,1,2-TCA	1,2-DCA	1,1-DCE	1,2-DCB	1,3-DCB	1,4-DCB	Acetone	Chloroform	Chloromethane	cDCE	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Methylene Chloride	MIBK	PCE	Toluene	tDCE	TCE	VC	Xylenes	
		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
B1-2-5'	3/22/13	<0.0037	<0.0037	<0.0037	0.0099	<0.0037	<0.0037	<0.0037	0.110	<0.0037	<0.0074	8.4	<0.0037	<0.0037	<0.0037	<0.0037	0.0092	<0.0037	<0.0037	0.069	<0.0037	2.6	0.0108	
B2-10-15'	3/22/13	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.083	<0.0041	<0.0083	0.24	<0.0041	<0.0041	<0.0041	<0.0041	<0.0083	3.6	<0.0041	<0.0041	0.067	<0.0083	<0.0041	
B3-10-15'	3/22/13	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.085	<0.0043	<0.0085	0.12	<0.0043	<0.0043	<0.0043	<0.0043	<0.0085	0.025	<0.0043	<0.0043	0.0064	<0.0085	<0.0043	
IB1-6"-2'		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.093	NR	NR	NR	NR	NR	17	NR	NR	0.049	NR	NR	
IB2-6"-18"		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.90	NR	NR	0.0070	NR	NR	
IB3-6"-12"		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0072	NR	NR	NR	NR	NR	
IB4-6"-2'		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.10	NR	NR	NR	NR	NR	7.4	NR	NR	2.00	NR	NR	
IB4-3'-5'		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	15	NR	NR	NR	NR	NR	120	NR	0.027	2.00	0.032	NR	
IB5-6"-2'		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1.6	NR	NR	NR	NR	NR	
IB5-3'-5'		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	3.7	NR	NR	NR	NR	NR	0.042	NR	0.027	NR	0.053	NR	
B5-1-2'	4/23/13	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.091	<0.0046	<0.0091	0.15	0.0060	<0.0046	<0.0046	<0.0046	<0.0091	1.6	<0.0046	<0.0046	0.065	<0.0091	0.0086	
B5-4-5'	4/23/13	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.081	<0.0041	<0.0081	0.037	<0.0041	<0.0041	<0.0041	<0.0041	<0.0081	0.92	<0.0041	<0.0041	0.021	<0.0081	<0.0041	
B6-1-2'	4/23/13	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.067	<0.0033	<0.0067	0.079	<0.0033	<0.0033	<0.0033	<0.0033	<0.0067	0.0059	<0.0033	<0.0033	0.015	<0.0067	<0.0033	
B6-9-10'	4/23/13	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.070	<0.0035	<0.0070	0.0081	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	0.037	<0.0035	<0.0035	<0.0035	<0.0070	<0.0035	
B8-1-2'	4/23/13	<0.0033	<0.0033	<0.0033	0.0050	<0.0033	<0.0033	<0.0033	<0.066	<0.0033	<0.0066	6.0	0.0044	<0.0033	<0.0033	<0.0033	<0.0066	0.61	<0.0033	<0.0033	0.048	0.059	0.66	0.0102
B8-9-10'	4/23/13	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.065	<0.0032	<0.0065	0.81	<0.0032	<0.0032	<0.0032	<0.0032	<0.0065	1.2	<0.0032	0.0097	0.70	0.11	<0.0032	
B9-1-2'	4/23/13	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.081	<0.0040	<0.0081	0.30	<0.0040	<0.0040	<0.0040	<0.0040	<0.0081	0.30	<0.0040	<0.0040	<0.0040	0.029	<0.0040	
B10-1-2'	4/23/13	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.071	<0.0036	<0.0071	0.91	<0.0036	<0.0036	<0.0036	<0.0036	<0.0071	0.88	<0.0036	<0.0036	0.059	<0.0071	<0.0036	
B10-9-10'	4/23/13	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.088	<0.0044	<0.0088	0.011	<0.0044	<0.0044	<0.0044	<0.0044	<0.0088	0.50	<0.0044	<0.0044	0.016	<0.0088	<0.0044	
B11-1-2'	4/23/13	<0.0028	<0.0028	<0.0028	0.047	<0.0028	0.0075	<0.0028	<0.056	<0.0028	<0.0056	0.70	<0.0028	<0.0028	<0.0028	<0.0028	<0.0056	230	<0.0028	<0.0028	1.1000	<0.0056	<0.0028	
B11-9-10'	4/23/13	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<5.00	<0.25	<0.50	1.0	<0.25	<0.25	<0.25	<0.25	<0.50	9.6	<0.25	<0.25	0.58	<0.50	<0.25	
B12-1-2'	4/23/13	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<4.1	<0.20	<0.41	<0.20	<0.20	<0.20	<0.20	<0.20	<0.41	9.7	<0.20	<0.20	<0.20	<0.41	<0.20	
B12-9-10'	4/23/13	<0.0043	<0.0043	<0.0043	<0.0043	3.8	<0.0043	<3.000	<0.086	<0.0043	<0.0086	7.0	1.6	5.1	<0.0043	<0.0043	<0.0086	8500	<0.0043	<0.0043	0.034	<0.0043	<0.0086	7.6
B13-1-2'	4/23/13	<0.0031	<0.0031	<0.0031	<0.0031	<0.0031	<0.0031	<0.0031	<0.062	<0.0031	<0.0062	0.039	<0.0031	<0.0031	<0.0031	<0.0031	<0.0062	1.1	<0.0031	<0.0031	0.031	<0.0062	<0.0031	
B13-9-10'	4/23/13	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.084	<0.0042	<0.0084	1.5	<0.0042	<0.0042	<0.0042	<0.0042	<0.0084	9.4	<0.0042	<0.0042	0.010	0.59	0.034	<0.0042
B14-1-2'	4/23/13	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.11	<0.0053	<0.0053	0.40	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	0.62	<0.0053	<0.0053	0.21	<0.0053	<0.0053	
B14-9-10'	4/23/13	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.086	<0.0043	<0.0086	0.25	<0.0043	<0.0043	<0.0043	<0.0043	<0.0086	4.7	<0.0043	<0.0043	0.13	<0.0086	<0.0043	
B15-6"-2'		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.038	NR	NR	NR	NR	NR	0.022	NR	NR	NR	NR	NR	
B16-8-10'		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.093	NR	NR	NR	NR	NR	0.019	NR	NR	NR	NR	NR	
B-17-2-5'		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
B18-6"-2'		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.015	NR	NR	NR	NR	NR	
B19-6"-2'		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.017	NR	NR	NR	NR	NR	
B20-6"-2'		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
B21-2-5'		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.043	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.023	NR	
B22-6"-2'		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.012	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.029	NR	
B23-2-5'		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.17	NR	NR	NR	NR	NR	
B24-2-4'		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0098	NR	NR	NR	NR	NR	
B25-5-7'		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.030	NR	NR	NR	NR	NR	0.50	NR	NR	0.021	0.029	NR	
IP-3 5'	6/1/15	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.12	<0.0061	<0.012	0.027	<0.0061	<0.0061	<0.0061	<0.0061	0.065	<0.012	<0.0061	<0.0061	0.021	<0.0061	<0.0061	
IP-3 8'	6/1/15	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.10	<0.0052	<0.010	1.5	0.0064	0.0066	<0.0052	<0.0052	0.11	<0.010	0.087	0.0057	0.50	<0.0052	0.48	0.0075
FL-1	6/19/15	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.10	<0.0052	<0.010	1.8	<0.0052	<0.0052	<0.0052	<0.0052	<0.021	<0.010	17	<0.0052	0.0069	0.41	<0.010	<0.0052
FL-2	6/22/15	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.11	<0.0053	<0.011	4.4	<0.0053	<0.0053	<0.0053	<0.021	<0.011	3.2	<0.0053	0.083	0.51	0.070	<0.0053	
FL-3	6/23/15	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	0.14	<0.0052	<0.010	2.1	<0.0052	<0.0052	<0.0052	<0.0052	<0.010	11	<0.0052	0.0065	0.73	<0.010	<0.0052	
FL-4	6/24/15	<0.0048	<0.0048	<0.0048	<0.0048	0.58	0.020	0.072	<0.095	<0.0048	<0.0095	0.29	0.093	0.48	<0.0048	<0.019	<0.0095	220	<0.0048	<0.0048	0.51	<0.0095	0.43	
SW-1	6/19/15	0.0067	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.11	<0.0055	<0.0110	13	<0.0055	<0.0055	<0.0055	<0.022	<0.011	0.061	<0.0055	0.12	0.015	0.081	<0.0055	
SW-2	6/19/15	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.11	<0.0057	<0.011	2.1	<0.0057	<0.0057	<0.0057	<0.023	<0.011	66	<0.0057	0.028	1.7	0.017	<0.0057	
SW-3	6/22/15	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.10	<0.0051	<0.010	15	<0.00											

Table-2
Summary of Groundwater Sample Analyses
Westside Cleaners
700 Sandtown Road, Marietta, Georgia
HSI #10927
SEA Job #152-018

Sample Location	Date	1,1-DCE	Chloroform	Chloromethane	cDCE	Ethylbenzene	MTBE	PCE	Toluene	tDCE	TCE	VC	Xylenes
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
B1	3/22/13	<0.0050	<0.0050	<0.010	2.400	<0.0050	0.014	2.500	<0.0050	0.040	0.590	0.370	<0.0050
B2	3/22/13	<0.0050	0.013	<0.010	0.510	<0.0050	<0.0050	85.000	<0.0050	0.0093	0.180	0.025	<0.0050
B3	3/22/13	<0.0050	0.0096	<0.010	7.700	<0.0050	<0.0050	9.100	<0.0050	0.079	1.000	0.042	<0.0050
MW-1	4/26/13	0.0050	<0.0050	<0.010	2.100	0.0060	<0.0050	6.300	0.0082	0.030	0.740	0.430	0.0162
**	3/13/15	<0.0050	<0.0050	<0.010	1.400	<0.0050	0.017	5.900	<0.0050	0.015	0.690	0.170	<0.0050
	10/22/15	<0.0050	<0.0050	0.034	1.000	<0.0050	0.021	3.900	<0.0050	0.086	0.540	<0.0020	<0.0050
MW-2	4/26/13	<0.0050	<0.0050	<0.010	1.400	<0.0050	0.010	1.900	<0.0050	0.020	0.240	0.190	<0.0050
	3/13/15	<0.0050	<0.0050	<0.010	2.600	<0.0050	0.018	2.400	<0.0050	0.036	0.380	0.280	<0.0050
	10/21/15	<0.0050	<0.0050	<0.010	1.800	<0.0050	0.012	1.300	<0.0050	0.034	0.290	0.200	<0.0050
MW-3	4/26/13	0.0069	0.013	<0.010	3.900	<0.0050	0.0054	40.000	<0.0050	0.045	0.910	0.330	<0.0050
**	3/16/15	<0.0050	0.0086	<0.010	<0.0050	<0.0050	<0.0050	39.000	<0.0050	0.033	1.000	0.150	0.0052
	10/22/15	<0.500	<0.500	<1.000	3.700	<0.500	<0.500	20.000	<0.500	<0.500	1.000	<0.200	<0.500
MW-4	3/13/15	<0.0050	<0.0050	<0.010	2.800	<0.0050	<0.0050	0.190	<0.0050	0.011	0.120	0.044	<0.0050
	10/21/15	<0.0050	<0.0050	<0.010	2.600	<0.0050	<0.0050	0.120	<0.0050	0.012	0.094	0.041	<0.0050
MW-5	3/16/15	<0.0050	<0.0050	<0.010	3.100	<0.0050	0.015	9.400	<0.0050	0.032	0.600	0.095	<0.0050
	10/21/15	<0.0050	<0.0050	<0.010	3.100	<0.0050	0.015	8.000	<0.0050	0.094	0.650	0.056	<0.0050
MW-6	10/6/16	<0.0050	<0.0050	<0.010	0.150	<0.0050	<0.0050	0.200	<0.0050	<0.0050	0.015	<0.0020	<0.0050
MW-7	10/24/16	<0.0050	<0.0050	<0.010	0.036	<0.0050	<0.0050	0.150	<0.0050	<0.0050	0.0057	<0.0020	<0.0050
MW-8	10/24/16	<0.0050	<0.0050	<0.010	0.0094	<0.0050	<0.0050	0.058	<0.0050	<0.0050	<0.0050	<0.0020	<0.0050

** MW-1 and MW-3 were were identified incorrectly at time of sampling and were corrected

Table - 3
Groundwater Elevation Summary
Westside Cleaners
700 Sandtown Road, Marietta, Georgia
HSI #10927
SEA Job#152-018

WELL NO.	DATE MEASURED	GROUND ELEVATION	TOP OF CASING ELEVATION	SCREENED INTERVAL	STATIC WATER LEVEL	GROUND WATER ELEVATION
MW-1	4/26/2013	NM	99.59	12.0-22.0	11.89	87.70
	3/6/2015				13.48	86.11
	3/13/2015	100.25	99.81		13.66	86.15
	10/16/2015				13.88	85.71
	12/5/2016				13.81	86.00
MW-2	4/26/2013	NM	99.86	12.0-22.0	12.81	87.05
	3/6/2015				13.22	86.64
	3/13/2015	100.13	99.62		12.96	86.66
	10/16/2015				13.07	86.55
	12/5/2016				14.60	85.02
MW-3	4/26/2013	NM	100.00	12.0-22.0	13.46	86.54
	3/6/2015				12.63	87.37
	3/13/2015	99.81	99.45		12.46	86.99
	10/16/2015				13.88	85.57
	12/5/2016				15.35	84.10
MW-4	3/13/2015	100.68	100.44	10.0-20.0	13.92	86.52
	10/16/2015				14.01	86.43
	12/5/2016				15.46	84.98
MW-5	3/13/2015	100.29	100.13	10.0-20.0	15.92	84.21
	10/16/2015				15.99	84.14
	12/5/2016				17.31	82.82
MW-6	10/6/2016	100.69	100.19	18.5-28.5	25.46	74.73
	12/5/2016				25.88	74.31
MW-7	10/24/2016	90.20	93.22	15.0-25.0	26.00	67.22
	12/5/2016				25.53	67.69
MW-8	10/24/2016	88.33	91.09	15.0-25.0	24.43	66.66
	12/5/2016				24.00	67.09

NM - Not Measured

Benchmark established by SEA on 3/13/2015 is a manhole assigned reference elevation 100.00 feet

**Water levels of MW-1 and MW-3 were switched at time of gauging and were corrected

Table - 4
Monitoring Well Construction Details
Westside Cleaners
700 Sandtown Road, Marietta, Georgia
HSI #10927
SEA Job#152-018

WELL NO.	INSTALLATION DATE	GROUND ELEVATION	TOP OF CASING ELEVATION	DEPTH TO GROUT SEAL (feet)	DEPTH TO BENTONITE SEAL (feet)	DEPTH TO SAND PACK (feet)	SCREENED INTERVAL (feet)
MW-1	4/23/2013	NM	99.59	0	8	10	12.0-22.0
		100.25	99.81				
MW-2	4/23/2013	NM	99.86	0	8	10	12.0-22.0
		100.13	99.62				
MW-3	4/23/2013	NM	100.00	0	8	10	12.0-22.0
		99.81	99.45				
MW-4	3/12/2015	100.68	100.44	0	1.50	8	10.0-20.0
MW-5	3/12/2015	100.29	100.13	0	1.50	8	10.0-20.0
MW-6	10/5/2016	100.69	100.19	0	1.50	16.5	18.5-28.5
MW-7	10/20/2016	90.20	93.22	0	1.50	13.0	15.0-25.0
MW-8	10/20/2016	88.33	91.09	0	1.50	13	15.0-25.0

NM - Not Measured

Benchmark established by SEA on 3/13/2015 is a top of manhole assigned reference elevation 100.00 feet

Table - 5a
Delineation/Cleanup Criteria and Standards for Soil
Westside Cleaners
700 Sandtown Road, Marietta, Georgia
HSI #10927
SEA Job#152-018

CAS Number	Regulated Substance	Delineation Standards	Residential Type 1/2 RRS	Non-Residential Type 3/4 RRS
79-34-5	1,1,2,2-PCA	0.13	0.130 / 92.5911	0.1300 / 3.0750
79-00-5	1,1,2-TCA	0.5	0.500 / 0.5252	0.500 / 2.5506
75-35-4	1,1-DCE	0.7	0.700 / 50.9253	0.700 / 3.7624
95-50-1	1,2-DCB	60	60.0 / 834.0780	60.0 / 11.6737
107-06-2	1,2-DCA	0.5	0.500 / 3.9804	0.500 / 1.0130
541-73-1	1,3-DCB	60	60.0 / 7442.4835	60.0 / 17.3635
106-46-7	1,4-DCB	7.5	7.50 / 412.4662	7.50 / 33.7897
67-64-1	Acetone	400	400.0 / 409.7302	400.0 / 186.9164
74-87-3	Chloromethane	Not Regulated Under HSRA		
156-59-2	cDCE	7	7.00 / 57.5542	7.00 / 1.1787
100-41-4	Ethylbenzene	70	70.0 / 932.1254	70.0 / 50.9170
98-82-8	Isopropylbenzene	21.88	21.88 / 16.0083	21.88 / 34.3306
108-87-2	Methylcyclohexane	Not Regulated Under HSRA		
75-09-2	Methylene Chloride	0.5	0.500 / 43.8463	0.500 / 2.3195
127-18-4	PCE	0.5	0.500 / 0.1722	0.500 / 0.8918
108-88-3	Toluene	100	100.0 / 4.0000	100.0 / 72.5404
156-60-5	tDCE	10	10.0 / 3080.5866	10.0 / 10.6781
79-01-6	TCE	0.5	0.500 / 29.5858	0.500 / 0.0375
75-01-4	VC	0.2	0.200 / 528.7091	0.200 / 1.0319
1330-20-7	Xylenes	1000	1000 / 1.4053	1000 / 198.0014

Table - 5b
Delineation/Cleanup Criteria and Standards for Groundwater
Westside Cleaners
700 Sandtown Road, Marietta, Georgia
HSI #10927
SEA Job#152-018

CAS Number	Regulated Substance	Delineation Standards	Residential Type 1/2 RRS	Non-Residential Type 3/4 RRS
75-35-4	1,1-DCE	0.007	0.007 / 0.1034	0.007 / 0.5241
67-66-3	Chloroform	0.1	0.1 / 0.0196	0.1 / 0.2139
74-87-3	Chloromethane	Regulated Under HSRA		
156-59-2	cDCE	0.07	0.07 / 0.0723	0.07 / 0.2004
100-41-4	Ethylbenzene	0.7	0.7 / 0.4315	0.7 / 2.2711
127-18-4	PCE	0.005	0.005 / 0.1780	0.005 / 0.0981
108-88-3	Toluene	1	1.00 / 0.1780	1 / 5.2410
156-60-5	tDCE	0.1	0.10 / 0.5006	0.1 / 1.7033
79-01-6	TCE	0.005	0.005 / 0.0190	0.005 / 0.0052
75-01-4	VC	0.002	0.002 / 0.6636	0.002 / 0.1496
1330-20-7	Xylenes	10	10 / 0.0010	10 / 0.2879

Table - 6
Potential and Known COCs
Westside Cleaners
700 Sandtown Road, Marietta, Georgia
HSI #10927
SEA Job#152-018

CAS Number	Regulated Substance	Media	Historic Maximum Concentration	Sample ID	Sample Depth	Delineation Standards	Residential Type 1/2 RRS	Non-Residential Type 3/4 RRS
79-34-5	1,1,2,2-PCA	S	0.023 mg/kg	SGP-1	5.25	0.13	0.130 / 92.5911	0.1300 / 6.2753
79-00-5	1,1,2-TCA	S	0.035 mg/kg	SGP-1	7.5'	0.5	0.500 / 0.5252	0.500 / 0.0324
75-35-4	1,1-DCE	S	0.0099 mg/kg	B1-2.5'	2.5'	0.7	0.700 / 50.9253	0.700 / 3.7624
		GW	0.0069 mg/L	MW-3	NA	0.007	0.007 / 0.1034	0.7 / 0.5241
95-50-4	1,2-DCB	S	0.58 mg/kg	FL-4	10'	60	60.0 / 834.0780	60.0 / 11.6737
107-06-2	1,2-DCA	S	0.0069 mg/kg	SGP-1	7.5'	0.5	0.500 / 3.9804	0.500 / 0.1122
541-73-1	1,3-DCB	S	0.020 mg/kg	FL-4	10'	60	60.0 / 7442.4835	60.0 / 17.3635
106-46-7	1,4-DCB	S	0.072 mg/kg	FL-4	10'	7.5	7.50 / 412.4662	7.50 / 33.7897
67-64-1	Acetone	S	0.36 mg/kg	SGP-1	7.5'	400	400.0 / 409.7302	400.0 / 186.9164
67-66-3	Chloroform	GW	0.013 mg/L	B2 & MW-3	NA	0.1	0.1 / 0.0196	0.1 / 0.2139
74-87-3	Chloromethane	S	0.013 mg/kg	SGP-1	7.5'	Not Regulated		
		GW	0.034 mg/L	MW-1	NA	Not Regulated		
156-59-2	cDCE	S	7.700 mg/L	B3	NA	7	7.00 / 57.5542	7.00 / 1.1787
		GW	7.700 mg/L	B3	NA	0.07	0.07 / 0.0723	0.07 / 0.2004
100-41-4	Ethylbenzene	S	1.6 mg/kg	B12-9'-10'	9'-10'	70	70.0 / 932.1254	70.0 / 50.9170
		GW	0.0060 mg/L	MW-1	NA	0.7	0.7 / 0.4315	0.7 / 2.2711
98-82-8	Isopropylbenzene	S	5.1 mg/kg	B12-9'-10'	9'-10'	21.88	21.88 / 16.0083	21.88 / 34.3306
108-87-2	Methylcyclohexane	S	0.012 mg/kg	B8-1'-2'	1'-2'	Not Regulated		
75-09-2	Methylene Chloride	S	0.11 mg/kg	IP-3	8'	0.5	0.500 / 43.8463	0.500 / 2.3195
127-18-4	PCE	S	8500 mg/kg	B12-9'-10'	9'-10'	0.5	0.500 / 0.7122	0.500 / 0.8918
		GW	85 mg/L	B2	NA	0.005	0.005 / 0.1780	0.005 / 0.0981
108-88-3	Toluene	S	0.0057 mg/kg	IP-3	8'	100	100.0 / 4.00	100.0 / 72.5404
		GW	0.0082 mg/L	MW-1	NA	1	1.00 / 0.1780	1.00 / 5.2410
156-60-5	tDCE	S	0.069 mg/kg	B1-2'-5'	2'-5'	10	10.0 / 3080.5866	10.0 / 10.6781
		GW	1.000 mg/L	B3 & MW-3	NA	0.1	0.10 / 0.5006	0.10 / 1.7033
79-01-6	TCE	S	2.0 mg/kg	IB4-6"-2" & IB4-3'-5'	6"-2" & 3'-5'	0.5	0.500 / 29.5858	0.500 / 0.0375
		GW	0.430 mg/L	MW-1	NA	0.005	0.005 / 0.0190	0.005 / 0.0052
75-01-4	VC	S	2.6 mg/kg	B1-2'-5'	2'-5'	0.2	0.200 / 528.7091	0.200 / 1.0319
		GW	0.430 mg/L	MW-1	NA	0.002	0.002 / 0.6636	0.002 / 0.1496
1330-20-7	Xylenes	S	7.6 mg/kg	B12-9'-10'	9'-10'	1000	1000 / 1.4053	1000 / 198.0014
		GW	0.0162 mg/L	MW-1	NA	10	10 / 0.0010	10 / 0.2879

Appendix 3: Boring Logs and Well Construction Diagrams

LOG OF BORING

SHEET 1 OF 1
BORING NO.

CONTRACTED WITH: YNH Properties, LLC

MW-6

PROJECT NAME: Westside Cleaners

JOB NO.

DATE:

152-018

10/05/16

LOCATION: 700 Sandtown Rd SW, Marietta, GA: Cobb County

ELEV. (ft)	DESCRIPTION	DEPTH IN FEET	SAMPLES			NOTES
			No.	TYPE	BLOWS/6"	
	2" top soil - brown sand with a trace of silt					
	Red brown sand with a little silt	1				Soil sampling was not performed
		2				
		3				
		4				
		5				
		6				
		7				
		8				
		9				
		10				
	Brown sand with a little silt	11				Moist @ 23' Wet
		12				
		13				
		14				
		15				
		16				
		17				
		18				
		19				
		20				
		21				
		22				
		23				
		24				
		25				
		26				
		27				
		28				
		29				
	Boring Terminated @ 29'	30				
		31				
		32				
		33				
		34				
		35				
		36				
		37				
		38				
		39				
		40				

SEA

L O G O F B O R I N G

SHEET 1 OF 1
BORING NO.

CONTRACTED WITH: YNH Properties, LLC

MW-7

PROJECT NAME: Westside Cleaners

JOB NO.

DATE:

152-018

10/20/16

LOCATION: 700 Sandtown Rd SW, Marietta, GA: Cobb County

ELEV. (ft)	DESCRIPTION	DEPTH IN FEET	SAMPLES			NOTES
			No.	TYPE	BLOWS/6"	
		1				Soil sampling was not performed
		2				
		3				
		4				
		5				
		6				
		7				
		8				
		9				
		10				
		11				
		12				
		13				
		14				
		15				
		16				Wet
		17				
		18				
		19				
		20				
		21				
		22				
		23				
		24				
		25				
		26				
		27				
		28				
		29				
		30				
		31				
		32				
		33				
		34				
		35				
		36				
		37				
		38				
		39				
		40				

SEA

LOG OF BORING

SHEET 1 OF 1
BORING NO.

CONTRACTED WITH: YNH Properties, LLC

MW-8

PROJECT NAME: Westside Cleaners

JOB NO.

DATE:

152-018

10/20/16

LOCATION: 700 Sandtown Rd SW, Marietta, GA: Cobb County

ELEV. (ft)	DESCRIPTION	DEPTH IN FEET	SAMPLES			NOTES
			No.	TYPE	BLOWS/6"	
		1				Soil sampling was not performed
		2				
		3				
		4				
		5				
		6				
		7				
		8				
		9				
		10				
		11				
		12				
		13				
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		31				
		32				
		33				
		34				
		35				
		36				
		37				
		38				
		39				
		40				

SEA

Sailors Engineering Associates, Inc.

Well Construction Diagram

Well # MW-6

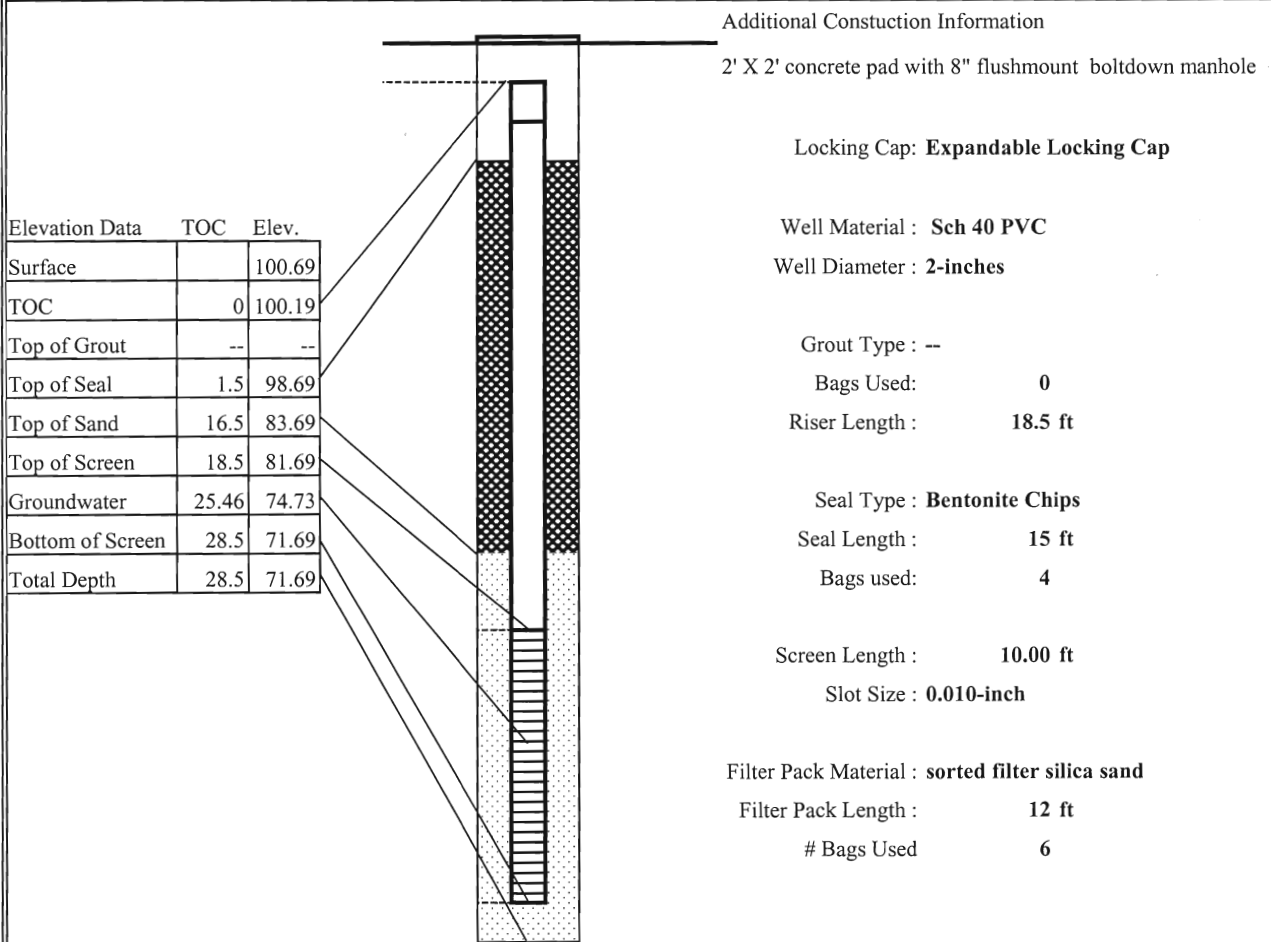
Client: YNH Properties LLC

Project Name/Number: 700 Sandtown Rd / 152-018

HSI #: 10927

Street: 700 Sandtown Rd

City/Co./State: Marietta/Cobb County/Georgia



Survey: M. Short & S. Lazarri

Elevation: 100.19

Date: 10/5/2016

Well Development : yes

Hurricane submersible pump. Pump installed to just above the bottom of the well and accumulated silts and sands then agitated to put silts and sands into solution for removal by the pump. The well was developed dry

Groundwater Level : 25.46' TOC (25.96' bgs) & 25.88' TOC (26.38' bgs)

Date : 10/6/16 & 12/5/16

Groundwater Sampling : VOCs (8260B) only

Date : 10/6/2016

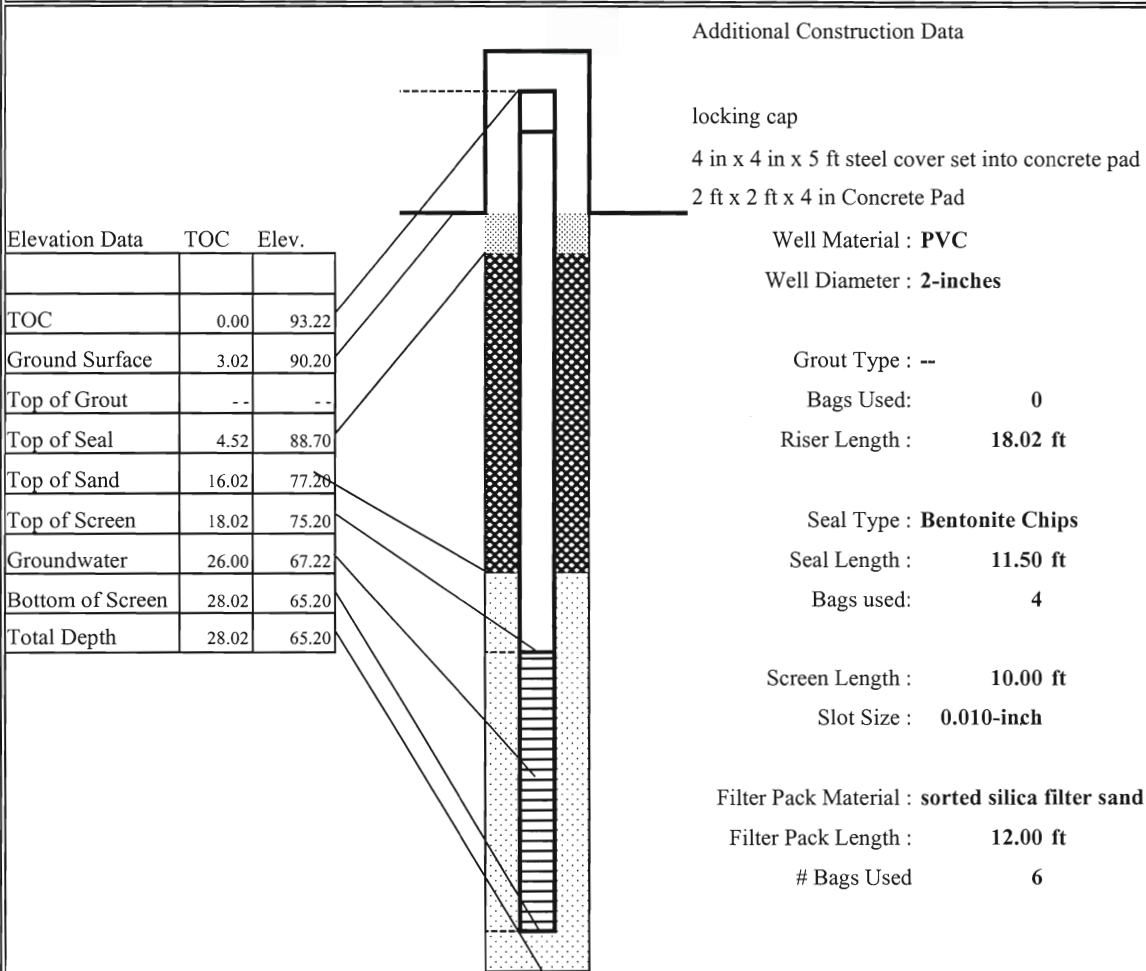
Remarks : Installed 10/5/2016

Sailors Engineering Associates, Inc.

Well Construction Diagram

Well # MW-7

Client: YNH Properties LLC
Project Name/Number: 700 Sandtown Rd / 152-018
HSI #: 10927
Street: 700 Sandtown Rd
City/Co./State: Marietta/Cobb County/Georgia



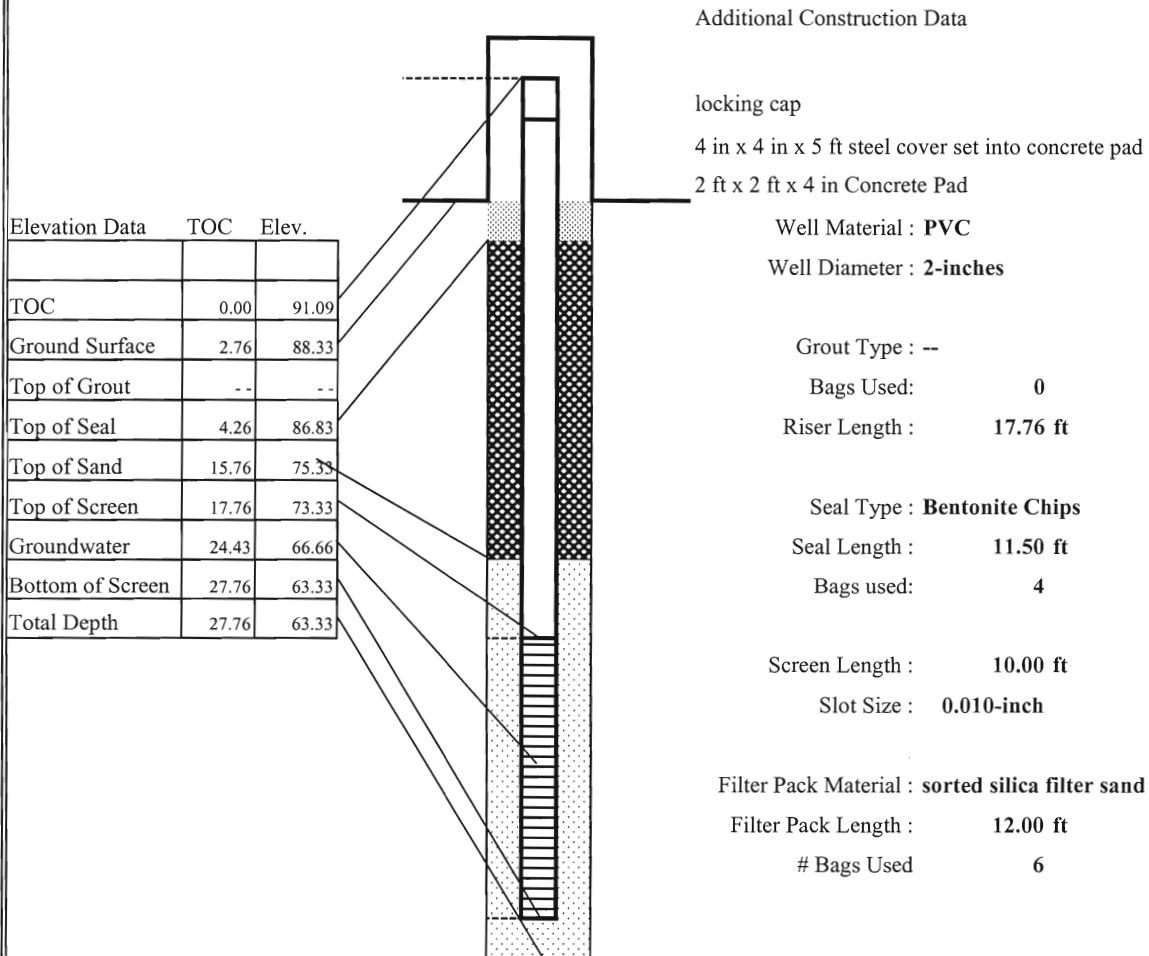
Survey: Elevation: 93.22 Date: 10/24/2016
Well Development : yes Hurricane submersible pump. Pump installed to just above the bottom of the well and accumulated silts and sands then agitated to put silts and sands into solution for removal by the pump. The well was developed dry
Groundwater Level : 26.00' TOC (22.98' bgs) & 25.53' TOC (22.51') Date : 10/24/16 & 12/5/16
Groundwater Sampling : VOCs (8260B) only Date : 10/24/2016
Remarks : Installed 10/20/16

Sailors Engineering Associates, Inc.

Well Construction Diagram

Well # MW-8

Client: YNH Properties LLC
Project Name/Number: 700 Sandtown Rd / 152-018
HSI #: 10927
Street: 700 Sandtown Rd
City/Co./State: Marietta/Cobb County/Georgia



Survey: Elevation: 91.09 Date: 10/24/2016
Well Development : yes Hurricane submersible pump. Pump installed to just above the bottom of the well and accumulated silts and sands then agitated to put silts and sands into solution for removal by the pump. The well was developed dry
Groundwater Level : 24.43' TOC (21.67' bgs) & 24.00' TOC (21.24') Date : 10/24/16 & 12/5/16
Groundwater Sampling : VOCs (8260B) only Date : 10/24/2016
Remarks : Installed 10/20/16

Appendix 4: Groundwater Sampling Logs

Low Flow Groundwater Sampling Log

Other Information: _____

± 5% 0.2 mg/L or ± 10% ± 0.1 ± 10% ± 10% per USEPA Region 4 (10-28-2011)

[illegible]

Analyses & Time of Sampling: _____

Sailors Engineering Associates, Inc
Low Flow Groundwater Sampling Log

Project No: 152-018 Project Name: Sandtown

Project Manager: M. Haller Well No: MW-7 Date: 10-24-16

Well Depth: 25' Screened Interval / Length: 10 / 25 Well Diameter: 2" Casing Type: PVC

Sampling Device (s): Horiba Tubing Type: 1/2" poly Water Level: 26.0'

Pump Intake Depth: 24 1/2 Pump Type: Peristaltic Pumping Rate: ~~200 ml/min~~

Other Information: 200 mL/min

Sampling Personnel: J. K. Lund

± 5%	0.2 mg/L or ± 10%	± 0.1	± 10%	± 10%	per USEPA Region 4 (10-28-2011)
------	-------------------	-------	-------	-------	---------------------------------

[illegible]

Analyses & Time of Sampling: Sampled @ 15:33

Sailors Engineering Associates, Inc Low Flow Groundwater Sampling Log

Project No: 152-018 Project Name: Sandtown

Project Manager: M. Haller Well No: MW-8 Date: 10-24-16

Well Depth: 25 Screened Interval / Length: 10 / 25 Well Diameter: 24 Casing Type: PU

Sampling Device (s): Horiba Tubing Type: 1/2" poly Water Level: 24.4

Pump Intake Depth: 24 Pump Type: Peristaltic Pumping Rate: 200 ml/min

Other Information: _____

Sampling Personnel: _____

± 5%	0.2 mg/L or ± 10%	± 0.1	± 10%	± 10%	per USEPA Region 4 (10-28-2011)
------	-------------------	-------	-------	-------	---------------------------------

[illegible]

Analyses & Time of Sampling: sampled @ 14:47

Appendix 5: Laboratory Data Sheets - Soil



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

November 17, 2015

Michael Haller
Sailors Engineering Associates
1675 Spectrum Drive
Lawrenceville GA 30043

TEL: (770) 962-5922
FAX: (770) 962-7964

RE: Sandtown Rd.

Dear Michael Haller:

Order No: 1511841

Analytical Environmental Services, Inc. received 5 samples on 11/9/2015 12:00:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/15-06/30/16.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Dorothy deBruvn
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

AES

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 151841

Date: 11/9/15 Page 1 of 1

COMPANY:		ADDRESS:		ANALYSIS REQUESTED												Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers	
PHONE:		FAX:		PRESERVATION (See codes)												REMARKS			
SAMPLED BY:		SIGNATURE:																	
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)													
1	SGP-1A 8'	11/9	10:41	/		So													
2	SGP-2A 7.5'	11/9	10:49	/		So													4
3	SGP-3A 7.5'	11/9	10:57	/		So													4
4	SGP-4A 7.5'	11/9	11:10	/		So													4
5	Trip Blank	11/9		/		W													4
6																			2
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			

RECEIVED BY:		DATE/TIME		PROJECT INFORMATION		RECEIPT	
1: <u>[Signature]</u>		11/9/15 12:00		PROJECT NAME: <u>Sandtown Rd</u>		Total # of Containers <u>18</u>	
2: <u>[Signature]</u>		11/9/15 12:00		PROJECT #: <u>152-018</u>		Turnaround Time Request	
3: <u>[Signature]</u>				SITE ADDRESS: <u>700 Sandtown Rd Marietta</u>		☒ Standard 5 Business Days ☐ 2 Business Day Rush ☐ Next Business Day Rush ☐ Same Day Rush (auth req.) ☐ Other	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD		INVOICE TO:		STATE PROGRAM (if any):	
		OUT / / VIA: IN / / VIA: ☒ CLIENT ☐ FedEx ☐ UPS ☐ MAIL ☐ COURIER ☐ GREYHOUND ☐ OTHER		SEND REPORT TO: <u>Mike Haller</u>		E-mail: <u>Y/N</u> Fax? <u>Y/N</u>	
				QUOTE #:		DATA PACKAGE: I II III IV	

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT. AES.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
 PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Client: Sailors Engineering Associates
Project: Sandtown Rd.
Lab ID: 1511841

Case Narrative

Volatile Organic Compounds Analysis by Method 8260B:

Acetone value for sample 1511841-003A is "E" qualified indicating an estimated value over linear calibration range. Sample was diluted and reanalyzed using the supplied methanol preserved sample at the minimum dilution allowed resulting in analytes being below reporting limits.

Analytical Environmental Services, Inc
Date: 17-Nov-15

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Lab ID: 1511841-001

Client Sample ID: SGP-1A 8'
Collection Date: 11/9/2015 10:41:00 AM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
1,1,1-Trichloroethane	BRL	0.0055		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
1,1,2,2-Tetrachloroethane	BRL	0.0055		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
1,1,2-Trichloroethane	BRL	0.0055		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
1,1-Dichloroethane	BRL	0.0055		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
1,1-Dichloroethene	BRL	0.0055		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
1,2,4-Trichlorobenzene	BRL	0.0055		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
1,2-Dibromo-3-chloropropane	BRL	0.0055		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
1,2-Dibromoethane	BRL	0.0055		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
1,2-Dichlorobenzene	BRL	0.0055		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
1,2-Dichloroethane	BRL	0.0055		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
1,2-Dichloropropane	BRL	0.0055		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
1,3-Dichlorobenzene	BRL	0.0055		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
1,4-Dichlorobenzene	BRL	0.0055		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
2-Butanone	BRL	0.055		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
2-Hexanone	BRL	0.011		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
4-Methyl-2-pentanone	BRL	0.011		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
Acetone	BRL	0.11		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
Benzene	BRL	0.0055		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
Bromodichloromethane	BRL	0.0055		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
Bromoform	BRL	0.0055		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
Bromomethane	BRL	0.0055		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
Carbon disulfide	BRL	0.011		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
Carbon tetrachloride	BRL	0.0055		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
Chlorobenzene	BRL	0.0055		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
Chloroethane	BRL	0.011		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
Chloroform	BRL	0.0055		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
Chloromethane	BRL	0.011		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
cis-1,2-Dichloroethene	0.0060	0.0055		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
cis-1,3-Dichloropropene	BRL	0.0055		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
Cyclohexane	BRL	0.0055		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
Dibromochloromethane	BRL	0.0055		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
Dichlorodifluoromethane	BRL	0.011		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
Ethylbenzene	BRL	0.0055		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
Freon-113	BRL	0.011		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
Isopropylbenzene	BRL	0.0055		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
m,p-Xylene	BRL	0.0055		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
Methyl acetate	BRL	0.0055		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
Methyl tert-butyl ether	BRL	0.0055		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
Methylcyclohexane	BRL	0.0055		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
Methylene chloride	BRL	0.022		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
o-Xylene	BRL	0.0055		mg/Kg-dry	215839	1	11/14/2015 03:07	CG

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Nov-15

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Lab ID: 1511841-001

Client Sample ID: SGP-1A 8'
Collection Date: 11/9/2015 10:41:00 AM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	0.0055		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
Tetrachloroethene	BRL	0.0055		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
Toluene	BRL	0.0055		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
trans-1,2-Dichloroethene	0.019	0.0055		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
trans-1,3-Dichloropropene	BRL	0.0055		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
Trichloroethene	BRL	0.0055		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
Trichlorofluoromethane	BRL	0.0055		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
Vinyl chloride	0.024	0.011		mg/Kg-dry	215839	1	11/14/2015 03:07	CG
Surr: 4-Bromofluorobenzene	85.1	70-128		%REC	215839	1	11/14/2015 03:07	CG
Surr: Dibromofluoromethane	100	78.2-128		%REC	215839	1	11/14/2015 03:07	CG
Surr: Toluene-d8	91.1	76.5-116		%REC	215839	1	11/14/2015 03:07	CG
PERCENT MOISTURE D2216								
Percent Moisture	24.8	0		wt%	R304343	1	11/13/2015 10:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 17-Nov-15

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Lab ID: 1511841-002

Client Sample ID: SGP-2A 7.5'
Collection Date: 11/9/2015 10:49:00 AM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
1,1,1-Trichloroethane	BRL	0.0067		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
1,1,2,2-Tetrachloroethane	BRL	0.0067		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
1,1,2-Trichloroethane	BRL	0.0067		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
1,1-Dichloroethane	BRL	0.0067		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
1,1-Dichloroethene	BRL	0.0067		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
1,2,4-Trichlorobenzene	BRL	0.0067		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
1,2-Dibromo-3-chloropropane	BRL	0.0067		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
1,2-Dibromoethane	BRL	0.0067		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
1,2-Dichlorobenzene	BRL	0.0067		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
1,2-Dichloroethane	BRL	0.0067		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
1,2-Dichloropropane	BRL	0.0067		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
1,3-Dichlorobenzene	BRL	0.0067		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
1,4-Dichlorobenzene	BRL	0.0067		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
2-Butanone	BRL	0.067		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
2-Hexanone	BRL	0.013		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
4-Methyl-2-pentanone	BRL	0.013		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
Acetone	BRL	0.13		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
Benzene	BRL	0.0067		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
Bromodichloromethane	BRL	0.0067		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
Bromoform	BRL	0.0067		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
Bromomethane	BRL	0.0067		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
Carbon disulfide	BRL	0.013		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
Carbon tetrachloride	BRL	0.0067		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
Chlorobenzene	BRL	0.0067		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
Chloroethane	BRL	0.013		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
Chloroform	BRL	0.0067		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
Chloromethane	BRL	0.013		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
cis-1,2-Dichloroethene	BRL	0.0067		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
cis-1,3-Dichloropropene	BRL	0.0067		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
Cyclohexane	BRL	0.0067		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
Dibromochloromethane	BRL	0.0067		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
Dichlorodifluoromethane	BRL	0.013		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
Ethylbenzene	BRL	0.0067		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
Freon-113	BRL	0.013		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
Isopropylbenzene	BRL	0.0067		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
m,p-Xylene	BRL	0.0067		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
Methyl acetate	BRL	0.0067		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
Methyl tert-butyl ether	BRL	0.0067		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
Methylcyclohexane	BRL	0.0067		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
Methylene chloride	BRL	0.027		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
o-Xylene	BRL	0.0067		mg/Kg-dry	215839	1	11/13/2015 19:39	CG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Nov-15

Client: Sailors Engineering Associates
 Project Name: Sandtown Rd.
 Lab ID: 1511841-002

Client Sample ID: SGP-2A 7.5'
 Collection Date: 11/9/2015 10:49:00 AM
 Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	0.0067		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
Tetrachloroethene	BRL	0.0067		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
Toluene	BRL	0.0067		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
trans-1,2-Dichloroethene	0.020	0.0067		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
trans-1,3-Dichloropropene	BRL	0.0067		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
Trichloroethene	BRL	0.0067		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
Trichlorofluoromethane	BRL	0.0067		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
Vinyl chloride	BRL	0.013		mg/Kg-dry	215839	1	11/13/2015 19:39	CG
Surr: 4-Bromofluorobenzene	87.2	70-128		%REC	215839	1	11/13/2015 19:39	CG
Surr: Dibromofluoromethane	99.4	78.2-128		%REC	215839	1	11/13/2015 19:39	CG
Surr: Toluene-d8	90.4	76.5-116		%REC	215839	1	11/13/2015 19:39	CG
PERCENT MOISTURE D2216								
Percent Moisture	24.9	0		wt%	R304343	1	11/13/2015 10:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 17-Nov-15

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Lab ID: 1511841-003

Client Sample ID: SGP-3A 7.5'
Collection Date: 11/9/2015 10:57:00 AM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
1,1,1-Trichloroethane	BRL	0.0049		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
1,1,2,2-Tetrachloroethane	BRL	0.0049		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
1,1,2-Trichloroethane	BRL	0.0049		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
1,1-Dichloroethane	BRL	0.0049		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
1,1-Dichloroethene	BRL	0.0049		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
1,2,4-Trichlorobenzene	BRL	0.0049		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
1,2-Dibromo-3-chloropropane	BRL	0.0049		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
1,2-Dibromoethane	BRL	0.0049		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
1,2-Dichlorobenzene	BRL	0.0049		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
1,2-Dichloroethane	BRL	0.0049		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
1,2-Dichloropropane	BRL	0.0049		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
1,3-Dichlorobenzene	BRL	0.0049		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
1,4-Dichlorobenzene	BRL	0.0049		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
2-Butanone	BRL	0.049		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
2-Hexanone	BRL	0.0098		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
4-Methyl-2-pentanone	BRL	0.0098		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
Acetone	0.69	0.098	E	mg/Kg-dry	215839	1	11/13/2015 20:02	CG
Benzene	BRL	0.0049		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
Bromodichloromethane	BRL	0.0049		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
Bromoform	BRL	0.0049		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
Bromomethane	BRL	0.0049		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
Carbon disulfide	BRL	0.0098		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
Carbon tetrachloride	BRL	0.0049		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
Chlorobenzene	BRL	0.0049		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
Chloroethane	BRL	0.0098		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
Chloroform	0.0075	0.0049		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
Chloromethane	BRL	0.0098		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
cis-1,2-Dichloroethene	0.13	0.0049		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
cis-1,3-Dichloropropene	BRL	0.0049		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
Cyclohexane	BRL	0.0049		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
Dibromochloromethane	BRL	0.0049		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
Dichlorodifluoromethane	BRL	0.0098		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
Ethylbenzene	BRL	0.0049		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
Freon-113	BRL	0.0098		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
Isopropylbenzene	BRL	0.0049		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
m,p-Xylene	BRL	0.0049		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
Methyl acetate	BRL	0.0049		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
Methyl tert-butyl ether	BRL	0.0049		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
Methylcyclohexane	BRL	0.0049		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
Methylene chloride	BRL	0.020		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
o-Xylene	BRL	0.0049		mg/Kg-dry	215839	1	11/13/2015 20:02	CG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 17-Nov-15

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Lab ID: 1511841-003

Client Sample ID: SGP-3A 7.5'
Collection Date: 11/9/2015 10:57:00 AM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	0.0049		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
Tetrachloroethene	17	2.1		mg/Kg-dry	215860	500	11/16/2015 14:54	MD
Toluene	BRL	0.0049		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
trans-1,2-Dichloroethene	0.0083	0.0049		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
trans-1,3-Dichloropropene	BRL	0.0049		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
Trichloroethene	0.092	0.0049		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
Trichlorofluoromethane	BRL	0.0049		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
Vinyl chloride	BRL	0.0098		mg/Kg-dry	215839	1	11/13/2015 20:02	CG
Surr: 4-Bromofluorobenzene	81.6	70-128		%REC	215839	1	11/13/2015 20:02	CG
Surr: 4-Bromofluorobenzene	79.4	70-128		%REC	215860	500	11/16/2015 14:54	MD
Surr: Dibromofluoromethane	88.6	78.2-128		%REC	215839	1	11/13/2015 20:02	CG
Surr: Dibromofluoromethane	108	78.2-128		%REC	215860	500	11/16/2015 14:54	MD
Surr: Toluene-d8	84.4	76.5-116		%REC	215839	1	11/13/2015 20:02	CG
Surr: Toluene-d8	94.9	76.5-116		%REC	215860	500	11/16/2015 14:54	MD
PERCENT MOISTURE D2216								
Percent Moisture	12.2	0		wt%	R304343	1	11/13/2015 10:00	PF

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 17-Nov-15

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Lab ID: 1511841-004

Client Sample ID: SGP-4A 7.5'
Collection Date: 11/9/2015 11:10:00 AM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
1,1,1-Trichloroethane	BRL	0.0053		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
1,1,2,2-Tetrachloroethane	BRL	0.0053		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
1,1,2-Trichloroethane	0.0053	0.0053		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
1,1-Dichloroethane	BRL	0.0053		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
1,1-Dichloroethene	BRL	0.0053		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
1,2,4-Trichlorobenzene	BRL	0.0053		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
1,2-Dibromo-3-chloropropane	BRL	0.0053		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
1,2-Dibromoethane	BRL	0.0053		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
1,2-Dichlorobenzene	BRL	0.0053		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
1,2-Dichloroethane	BRL	0.0053		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
1,2-Dichloropropane	BRL	0.0053		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
1,3-Dichlorobenzene	BRL	0.0053		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
1,4-Dichlorobenzene	BRL	0.0053		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
2-Butanone	BRL	0.053		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
2-Hexanone	BRL	0.011		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
4-Methyl-2-pentanone	BRL	0.011		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
Acetone	BRL	0.11		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
Benzene	BRL	0.0053		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
Bromodichloromethane	BRL	0.0053		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
Bromoform	BRL	0.0053		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
Bromomethane	BRL	0.0053		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
Carbon disulfide	BRL	0.011		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
Carbon tetrachloride	BRL	0.0053		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
Chlorobenzene	BRL	0.0053		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
Chloroethane	BRL	0.011		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
Chloroform	BRL	0.0053		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
Chloromethane	BRL	0.011		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
cis-1,2-Dichloroethene	7.4	0.24		mg/Kg-dry	215860	50	11/16/2015 13:24	MD
cis-1,3-Dichloropropene	BRL	0.0053		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
Cyclohexane	BRL	0.0053		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
Dibromochloromethane	BRL	0.0053		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
Dichlorodifluoromethane	BRL	0.011		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
Ethylbenzene	BRL	0.0053		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
Freon-113	BRL	0.011		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
Isopropylbenzene	BRL	0.0053		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
m,p-Xylene	BRL	0.0053		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
Methyl acetate	BRL	0.0053		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
Methyl tert-butyl ether	BRL	0.0053		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
Methylcyclohexane	BRL	0.0053		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
Methylene chloride	BRL	0.021		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
o-Xylene	BRL	0.0053		mg/Kg-dry	215839	1	11/13/2015 20:26	CG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Nov-15

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Lab ID: 1511841-004

Client Sample ID: SGP-4A 7.5'
Collection Date: 11/9/2015 11:10:00 AM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	0.0053		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
Tetrachloroethene	6.2	0.24		mg/Kg-dry	215860	50	11/16/2015 13:24	MD
Toluene	BRL	0.0053		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
trans-1,2-Dichloroethene	0.11	0.0053		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
trans-1,3-Dichloropropene	BRL	0.0053		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
Trichloroethene	1.3	0.24		mg/Kg-dry	215860	50	11/16/2015 13:24	MD
Trichlorofluoromethane	BRL	0.0053		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
Vinyl chloride	0.13	0.011		mg/Kg-dry	215839	1	11/13/2015 20:26	CG
Surr: 4-Bromofluorobenzene	82.8	70-128		%REC	215839	1	11/13/2015 20:26	CG
Surr: 4-Bromofluorobenzene	82.7	70-128		%REC	215860	50	11/16/2015 13:24	MD
Surr: Dibromofluoromethane	96.6	78.2-128		%REC	215839	1	11/13/2015 20:26	CG
Surr: Dibromofluoromethane	107	78.2-128		%REC	215860	50	11/16/2015 13:24	MD
Surr: Toluene-d8	90.8	76.5-116		%REC	215839	1	11/13/2015 20:26	CG
Surr: Toluene-d8	98	76.5-116		%REC	215860	50	11/16/2015 13:24	MD
PERCENT MOISTURE D2216								
Percent Moisture	11.8	0		wt%	R304343	1	11/13/2015 10:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 17-Nov-15

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Lab ID: 1511841-005

Client Sample ID: TRIP BLANK
Collection Date: 11/10/2015
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	215861	1	11/13/2015 00:32	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	215861	1	11/13/2015 00:32	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	215861	1	11/13/2015 00:32	CH
1,1-Dichloroethane	BRL	5.0		ug/L	215861	1	11/13/2015 00:32	CH
1,1-Dichloroethene	BRL	5.0		ug/L	215861	1	11/13/2015 00:32	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	215861	1	11/13/2015 00:32	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	215861	1	11/13/2015 00:32	CH
1,2-Dibromoethane	BRL	5.0		ug/L	215861	1	11/13/2015 00:32	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	215861	1	11/13/2015 00:32	CH
1,2-Dichloroethane	BRL	5.0		ug/L	215861	1	11/13/2015 00:32	CH
1,2-Dichloropropane	BRL	5.0		ug/L	215861	1	11/13/2015 00:32	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	215861	1	11/13/2015 00:32	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	215861	1	11/13/2015 00:32	CH
2-Butanone	BRL	50		ug/L	215861	1	11/13/2015 00:32	CH
2-Hexanone	BRL	10		ug/L	215861	1	11/13/2015 00:32	CH
4-Methyl-2-pentanone	BRL	10		ug/L	215861	1	11/13/2015 00:32	CH
Acetone	BRL	50		ug/L	215861	1	11/13/2015 00:32	CH
Benzene	BRL	5.0		ug/L	215861	1	11/13/2015 00:32	CH
Bromodichloromethane	BRL	5.0		ug/L	215861	1	11/13/2015 00:32	CH
Bromoform	BRL	5.0		ug/L	215861	1	11/13/2015 00:32	CH
Bromomethane	BRL	5.0		ug/L	215861	1	11/13/2015 00:32	CH
Carbon disulfide	BRL	5.0		ug/L	215861	1	11/13/2015 00:32	CH
Carbon tetrachloride	BRL	5.0		ug/L	215861	1	11/13/2015 00:32	CH
Chlorobenzene	BRL	5.0		ug/L	215861	1	11/13/2015 00:32	CH
Chloroethane	BRL	10		ug/L	215861	1	11/13/2015 00:32	CH
Chloroform	BRL	5.0		ug/L	215861	1	11/13/2015 00:32	CH
Chloromethane	BRL	10		ug/L	215861	1	11/13/2015 00:32	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	215861	1	11/13/2015 00:32	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	215861	1	11/13/2015 00:32	CH
Cyclohexane	BRL	5.0		ug/L	215861	1	11/13/2015 00:32	CH
Dibromochloromethane	BRL	5.0		ug/L	215861	1	11/13/2015 00:32	CH
Dichlorodifluoromethane	BRL	10		ug/L	215861	1	11/13/2015 00:32	CH
Ethylbenzene	BRL	5.0		ug/L	215861	1	11/13/2015 00:32	CH
Freon-113	BRL	10		ug/L	215861	1	11/13/2015 00:32	CH
Isopropylbenzene	BRL	5.0		ug/L	215861	1	11/13/2015 00:32	CH
m,p-Xylene	BRL	5.0		ug/L	215861	1	11/13/2015 00:32	CH
Methyl acetate	BRL	5.0		ug/L	215861	1	11/13/2015 00:32	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	215861	1	11/13/2015 00:32	CH
Methylcyclohexane	BRL	5.0		ug/L	215861	1	11/13/2015 00:32	CH
Methylene chloride	BRL	5.0		ug/L	215861	1	11/13/2015 00:32	CH
o-Xylene	BRL	5.0		ug/L	215861	1	11/13/2015 00:32	CH

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Nov-15

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Lab ID: 1511841-005

Client Sample ID: TRIP BLANK
Collection Date: 11/10/2015
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	215861	1	11/13/2015 00:32	CH
Tetrachloroethene	BRL	5.0		ug/L	215861	1	11/13/2015 00:32	CH
Toluene	BRL	5.0		ug/L	215861	1	11/13/2015 00:32	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	215861	1	11/13/2015 00:32	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	215861	1	11/13/2015 00:32	CH
Trichloroethene	BRL	5.0		ug/L	215861	1	11/13/2015 00:32	CH
Trichlorofluoromethane	BRL	5.0		ug/L	215861	1	11/13/2015 00:32	CH
Vinyl chloride	BRL	2.0		ug/L	215861	1	11/13/2015 00:32	CH
Surr: 4-Bromofluorobenzene	79.4	70.7-125		%REC	215861	1	11/13/2015 00:32	CH
Surr: Dibromofluoromethane	114	82.2-120		%REC	215861	1	11/13/2015 00:32	CH
Surr: Toluene-d8	99.9	81.8-120		%REC	215861	1	11/13/2015 00:32	CH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Sailors Eng.

Work Order Number 157841

Checklist completed by [Signature] Date 11/9/2015

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? ($0^{\circ} \leq 6^{\circ}C$)* Yes ☒ No ☐

Cooler #1 3.2 Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted ☒ Yes ☐ No ☐

Water - pH acceptable upon receipt? Yes ☒ No ☐ Not Applicable ☐

Adjusted? ☐ Checked by ☐

Sample Condition: Good ☒ Other(Explain) ☐

(For diffusive samples or AIHA lead) Is a known blank included? Yes ☐ No ☒

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Aes_server\\Sample Receipt\\My Documents\\COCs and pH Adjustment Sheet\\Sample_Cooler_Recipt_Checklist_Rev1.rtf

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Workorder: 1511841

ANALYTICAL QC SUMMARY REPORT**BatchID: 215839**

Sample ID: MB-215839	Client ID:				Units: ug/Kg	Prep Date: 11/12/2015	Run No: 304199				
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 215839	Analysis Date: 11/12/2015	Seq No: 6514521				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0
1,1,2,2-Tetrachloroethane	BRL	5.0
1,1,2-Trichloroethane	BRL	5.0
1,1-Dichloroethane	BRL	5.0
1,1-Dichloroethene	BRL	5.0
1,2,4-Trichlorobenzene	BRL	5.0
1,2-Dibromo-3-chloropropane	BRL	5.0
1,2-Dibromoethane	BRL	5.0
1,2-Dichlorobenzene	BRL	5.0
1,2-Dichloroethane	BRL	5.0
1,2-Dichloropropane	BRL	5.0
1,3-Dichlorobenzene	BRL	5.0
1,4-Dichlorobenzene	BRL	5.0
2-Butanone	BRL	50
2-Hexanone	BRL	10
4-Methyl-2-pentanone	BRL	10
Acetone	BRL	100
Benzene	BRL	5.0
Bromodichloromethane	BRL	5.0
Bromoform	BRL	5.0
Bromomethane	BRL	5.0
Carbon disulfide	BRL	10
Carbon tetrachloride	BRL	5.0
Chlorobenzene	BRL	5.0
Chloroethane	BRL	10
Chloroform	BRL	5.0
Chloromethane	BRL	10

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Workorder: 1511841

ANALYTICAL QC SUMMARY REPORT**BatchID: 215839**

Sample ID: MB-215839	Client ID:					Units: ug/Kg	Prep Date: 11/12/2015	Run No: 304199			
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS	SW8260B	BatchID: 215839				Analysis Date: 11/12/2015	Seq No: 6514521			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	20									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	40.25	0	50.00		80.5	70	128				
Surr: Dibromofluoromethane	53.22	0	50.00		106	78.2	128				
Surr: Toluene-d8	47.50	0	50.00		95.0	76.5	116				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Workorder: 1511841

ANALYTICAL QC SUMMARY REPORT**BatchID: 215839**

Sample ID: LCS-215839	Client ID:				Units: ug/Kg	Prep Date: 11/12/2015	Run No: 304199				
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 215839	Analysis Date: 11/12/2015	Seq No: 6514518				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	58.35	5.0	50.00		117	69.9	145				
Benzene	48.98	5.0	50.00		98.0	72.3	130				
Chlorobenzene	49.81	5.0	50.00		99.6	69	130				
Toluene	51.98	5.0	50.00		104	71.1	130				
Trichloroethene	53.20	5.0	50.00		106	71.7	136				
Surr: 4-Bromofluorobenzene	40.65	0	50.00		81.3	70	128				
Surr: Dibromofluoromethane	47.45	0	50.00		94.9	78.2	128				
Surr: Toluene-d8	44.32	0	50.00		88.6	76.5	116				

Sample ID: 1511748-002AMS	Client ID:					Units: mg/Kg-dry	Prep Date: 11/12/2015	Run No: 304199			
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 215839	Analysis Date: 11/12/2015	Seq No: 6514519			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	0.07929	0.0066	66.13		120	56.6	151				
Benzene	0.06524	0.0066	66.13		98.7	70.4	130				
Chlorobenzene	0.06437	0.0066	66.13		97.3	67.5	132				
Toluene	0.06949	0.0066	66.13		105	70.4	130				
Trichloroethene	0.07261	0.0066	66.13		110	70.1	137				
Surr: 4-Bromofluorobenzene	0.05554	0	66.13		84.0	70	128				
Surr: Dibromofluoromethane	0.06138	0	66.13		92.8	78.2	128				
Surr: Toluene-d8	0.06031	0	66.13		91.2	76.5	116				

Sample ID: 1511748-002AMSD	Client ID:					Units: mg/Kg-dry	Prep Date: 11/12/2015	Run No: 304199			
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 215839	Analysis Date: 11/12/2015	Seq No: 6514520			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	0.07957	0.0066	66.13		120	56.6	151	79.29	0.350	20.4	
Benzene	0.06841	0.0066	66.13		103	70.4	130	65.24	4.73	16.9	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Workorder: 1511841

ANALYTICAL QC SUMMARY REPORT

BatchID: 215839

Sample ID: 1511748-002AMSD	Client ID:					Units: mg/Kg-dry	Prep Date: 11/12/2015	Run No: 304199			
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 215839	Analysis Date: 11/12/2015	Seq No: 6514520			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	0.06464	0.0066	66.13		97.7	67.5	132	64.37	0.410	14.6	
Toluene	0.07333	0.0066	66.13		111	70.4	130	69.49	5.37	16.6	
Trichloroethene	0.07404	0.0066	66.13		112	70.1	137	72.61	1.95	17	
Surr: 4-Bromofluorobenzene	0.05280	0	66.13		79.8	70	128	55.54	0	0	
Surr: Dibromofluoromethane	0.06198	0	66.13		93.7	78.2	128	61.38	0	0	
Surr: Toluene-d8	0.06026	0	66.13		91.1	76.5	116	60.31	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Workorder: 1511841

ANALYTICAL QC SUMMARY REPORT

BatchID: 215860

Sample ID: MB-215860	Client ID:	Units: ug/Kg			Prep Date: 11/12/2015	Run No: 304211					
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 215860			Analysis Date: 11/12/2015	Seq No: 6514360					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	250
1,1,2,2-Tetrachloroethane	BRL	250
1,1,2-Trichloroethane	BRL	250
1,1-Dichloroethane	BRL	250
1,1-Dichloroethene	BRL	250
1,2,4-Trichlorobenzene	BRL	250
1,2-Dibromo-3-chloropropane	BRL	250
1,2-Dibromoethane	BRL	250
1,2-Dichlorobenzene	BRL	250
1,2-Dichloroethane	BRL	250
1,2-Dichloropropane	BRL	250
1,3-Dichlorobenzene	BRL	250
1,4-Dichlorobenzene	BRL	250
2-Butanone	BRL	2500
2-Hexanone	BRL	500
4-Methyl-2-pentanone	BRL	500
Acetone	BRL	5000
Benzene	BRL	250
Bromodichloromethane	BRL	250
Bromoform	BRL	250
Bromomethane	BRL	250
Carbon disulfide	BRL	500
Carbon tetrachloride	BRL	250
Chlorobenzene	BRL	250
Chloroethane	BRL	500
Chloroform	BRL	250
Chloromethane	BRL	500

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Workorder: 1511841

ANALYTICAL QC SUMMARY REPORT

BatchID: 215860

Sample ID: MB-215860		Client ID:		Units: ug/Kg		Prep Date: 11/12/2015		Run No: 304211			
SampleType: MBLK		TestCode: TCL VOLATILE ORGANICS SW8260B		BatchID: 215860		Analysis Date: 11/12/2015		Seq No: 6514360			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	250									
cis-1,3-Dichloropropene	BRL	250									
Cyclohexane	BRL	250									
Dibromochloromethane	BRL	250									
Dichlorodifluoromethane	BRL	500									
Ethylbenzene	BRL	250									
Freon-113	BRL	500									
Isopropylbenzene	BRL	250									
m,p-Xylene	BRL	250									
Methyl acetate	BRL	250									
Methyl tert-butyl ether	BRL	250									
Methylcyclohexane	BRL	250									
Methylene chloride	BRL	1000									
o-Xylene	BRL	250									
Styrene	BRL	250									
Tetrachloroethene	BRL	250									
Toluene	BRL	250									
trans-1,2-Dichloroethene	BRL	250									
trans-1,3-Dichloropropene	BRL	250									
Trichloroethene	BRL	250									
Trichlorofluoromethane	BRL	250									
Vinyl chloride	BRL	500									
Surr: 4-Bromofluorobenzene	1942	0	2500		77.7	70	128				
Surr: Dibromofluoromethane	2906	0	2500		116	78.2	128				
Surr: Toluene-d8	2404	0	2500		96.2	76.5	116				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Workorder: 1511841

ANALYTICAL QC SUMMARY REPORT**BatchID: 215860**

Sample ID: LCS-215860	Client ID:					Units: ug/Kg	Prep Date: 11/12/2015	Run No: 304211			
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 215860	Analysis Date: 11/12/2015	Seq No: 6514362			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	2556	250	2500		102	69.9	145				
Benzene	2810	250	2500		112	72.3	130				
Chlorobenzene	2784	250	2500		111	69	130				
Toluene	2732	250	2500		109	71.1	130				
Trichloroethene	2820	250	2500		113	71.7	136				
Surr: 4-Bromofluorobenzene	2044	0	2500		81.8	70	128				
Surr: Dibromofluoromethane	2704	0	2500		108	78.2	128				
Surr: Toluene-d8	2511	0	2500		100	76.5	116				

Sample ID: 1511B80-001AMS	Client ID:					Units: mg/Kg-dry	Prep Date: 11/12/2015	Run No: 304211			
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 215860	Analysis Date: 11/12/2015	Seq No: 6514364			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	2.756	0.22	2229		124	56.6	151				
Benzene	2.375	0.22	2229		107	70.4	130				
Chlorobenzene	2.402	0.22	2229		108	67.5	132				
Toluene	2.212	0.22	2229		99.2	70.4	130				
Trichloroethene	2.612	0.22	2229	202.9	108	70.1	137				
Surr: 4-Bromofluorobenzene	1.862	0	2229		83.5	70	128				
Surr: Dibromofluoromethane	2.185	0	2229		98.0	78.2	128				
Surr: Toluene-d8	2.083	0	2229		93.4	76.5	116				

Sample ID: 1511B80-001AMSD	Client ID:					Units: mg/Kg-dry	Prep Date: 11/12/2015	Run No: 304211			
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 215860	Analysis Date: 11/12/2015	Seq No: 6514365			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	2.679	0.22	2229		120	56.6	151	2756	2.85	20.4	
Benzene	2.420	0.22	2229		109	70.4	130	2375	1.88	16.9	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Workorder: 1511841

ANALYTICAL QC SUMMARY REPORT

BatchID: 215860

Sample ID: 1511B80-001AMSD	Client ID:					Units: mg/Kg-dry	Prep Date: 11/12/2015	Run No: 304211			
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 215860	Analysis Date: 11/12/2015	Seq No: 6514365			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	2.361	0.22	2229		106	67.5	132	2402	1.74	14.6	
Toluene	2.256	0.22	2229		101	70.4	130	2212	1.94	16.6	
Trichloroethene	2.605	0.22	2229	202.9	108	70.1	137	2612	0.256	17	
Surr: 4-Bromofluorobenzene	1.876	0	2229		84.1	70	128	1862	0	0	
Surr: Dibromofluoromethane	2.138	0	2229		95.9	78.2	128	2185	0	0	
Surr: Toluene-d8	2.108	0	2229		94.5	76.5	116	2083	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Workorder: 1511841

ANALYTICAL QC SUMMARY REPORT

BatchID: 215861

Sample ID: MB-215861	Client ID:				Units: ug/L	Prep Date: 11/12/2015	Run No: 304211				
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 215861	Analysis Date: 11/12/2015	Seq No: 6514368				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0
1,1,2,2-Tetrachloroethane	BRL	5.0
1,1,2-Trichloroethane	BRL	5.0
1,1-Dichloroethane	BRL	5.0
1,1-Dichloroethene	BRL	5.0
1,2,4-Trichlorobenzene	BRL	5.0
1,2-Dibromo-3-chloropropane	BRL	5.0
1,2-Dibromoethane	BRL	5.0
1,2-Dichlorobenzene	BRL	5.0
1,2-Dichloroethane	BRL	5.0
1,2-Dichloropropane	BRL	5.0
1,3-Dichlorobenzene	BRL	5.0
1,4-Dichlorobenzene	BRL	5.0
2-Butanone	BRL	50
2-Hexanone	BRL	10
4-Methyl-2-pentanone	BRL	10
Acetone	BRL	50
Benzene	BRL	5.0
Bromodichloromethane	BRL	5.0
Bromoform	BRL	5.0
Bromomethane	BRL	5.0
Carbon disulfide	BRL	5.0
Carbon tetrachloride	BRL	5.0
Chlorobenzene	BRL	5.0
Chloroethane	BRL	10
Chloroform	BRL	5.0
Chloromethane	BRL	10

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Workorder: 1511841

ANALYTICAL QC SUMMARY REPORT

BatchID: 215861

Sample ID: MB-215861	Client ID:					Units: ug/L	Prep Date: 11/12/2015		Run No: 304211		
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS	SW8260B				BatchID: 215861	Analysis Date: 11/12/2015		Seq No: 6514368		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	42.80	0	50.00		85.6	70.7	125				
Surr: Dibromofluoromethane	52.49	0	50.00		105	82.2	120				
Surr: Toluene-d8	49.22	0	50.00		98.4	81.8	120				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Workorder: 1511841

ANALYTICAL QC SUMMARY REPORT**BatchID: 215861**

Sample ID: LCS-215861	Client ID:					Units: ug/L	Prep Date: 11/12/2015	Run No: 304211			
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 215861	Analysis Date: 11/12/2015	Seq No: 6514367			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	57.02	5.0	50.00		114	64.2	137				
Benzene	54.80	5.0	50.00		110	72.8	128				
Chlorobenzene	52.17	5.0	50.00		104	72.3	126				
Toluene	53.04	5.0	50.00		106	74.9	127				
Trichloroethene	55.85	5.0	50.00		112	70.5	134				
Surr: 4-Bromofluorobenzene	39.46	0	50.00		78.9	70.7	125				
Surr: Dibromofluoromethane	52.75	0	50.00		106	82.2	120				
Surr: Toluene-d8	48.23	0	50.00		96.5	81.8	120				

Sample ID: 1511A64-004AMS	Client ID:					Units: ug/L	Prep Date: 11/12/2015	Run No: 304288			
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 215861	Analysis Date: 11/12/2015	Seq No: 6514715			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	60.89	5.0	50.00		122	60.5	156				
Benzene	64.47	5.0	50.00		129	70	135				
Chlorobenzene	65.14	5.0	50.00		130	70.5	132				
Toluene	62.73	5.0	50.00		125	70.5	137				
Trichloroethene	66.96	5.0	50.00		134	71.8	139				
Surr: 4-Bromofluorobenzene	37.97	0	50.00		75.9	70.7	125				
Surr: Dibromofluoromethane	56.80	0	50.00		114	82.2	120				
Surr: Toluene-d8	49.91	0	50.00		99.8	81.8	120				

Sample ID: 1511A64-004AMSD	Client ID:					Units: ug/L	Prep Date: 11/12/2015	Run No: 304288			
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 215861	Analysis Date: 11/12/2015	Seq No: 6514717			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	54.64	5.0	50.00		109	60.5	156	60.89	10.8	20	
Benzene	58.09	5.0	50.00		116	70	135	64.47	10.4	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Workorder: 1511841

ANALYTICAL QC SUMMARY REPORT

BatchID: 215861

Sample ID: 1511A64-004AMSD	Client ID:				Units: ug/L	Prep Date: 11/12/2015	Run No: 304288				
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 215861	Analysis Date: 11/12/2015	Seq No: 6514717				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	55.52	5.0	50.00		111	70.5	132	65.14	15.9	20	
Toluene	55.95	5.0	50.00		112	70.5	137	62.73	11.4	20	
Trichloroethene	58.39	5.0	50.00		117	71.8	139	66.96	13.7	20	
Surr: 4-Bromofluorobenzene	40.61	0	50.00		81.2	70.7	125	37.97	0	0	
Surr: Dibromofluoromethane	53.77	0	50.00		108	82.2	120	56.80	0	0	
Surr: Toluene-d8	49.75	0	50.00		99.5	81.8	120	49.91	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Appendix 6: Laboratory Data Sheets - Groundwater



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

October 13, 2016

Michael Haller
Sailors Engineering Associates
1675 Spectrum Drive
Lawrenceville GA 30043

TEL: (770) 962-5922
FAX: (770) 962-7964

RE: 700 Sandtown Rd

Dear Michael Haller:

Order No: 1610603

Analytical Environmental Services, Inc. received 2 samples on 10/7/2016 11:46:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- NELAC/Texas Certificate No. T104704509-16-6 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 03/01/16-02/28/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

Tyrel Heckendorf
Project Manager



TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

Work Order: 1410403

Date: 10/6/16 Page 1 of 1

COMPANY: Sailors Eng Assoc.		ADDRESS: 1675 Spectrum Dr Lawrenceville, GA 30043		ANALYSIS REQUESTED								Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.					
PHONE: 770-962-5922		FAX:										No # of Containers					
SAMPLED BY: Michael Short		SIGNATURE: 															
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)								REMARKS		
		DATE	TIME														
1	MW-6	10/6	15:34	/		GW	/									2	
2	Trip Blank	10/6				W	/									2	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
RELINQUISHED BY: 1:		DATE/TIME: 10/7/16 11:45		RECEIVED BY: Jerrin Ahilly		DATE/TIME: 10/7/16 11:46 am		PROJECT INFORMATION								RECEIPT	
2:		3:		3:		PROJECT NAME: 700 Sandtown Rd								Total # of Containers 2/			
3:		3:		3:		PROJECT #: 152-018								☒ Turnaround Time Request ☐ Standard 5 Business Days ☐ 2 Business Day Rush ☐ Next Business Day Rush ☐ Same Day Rush (auth req.) ☐ Other _____			
						SITE ADDRESS: 700 Sandtown Rd Marietta											
						SEND REPORT TO: Mike Haller											
						INVOICE TO: (IF DIFFERENT FROM ABOVE)											
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD		OUT / / VIA:		IN / / VIA:		QUOTE #:								PO#:	
				CLIENT FedEx UPS MAIL COURIER GREYHOUND OTHER													
SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.														STATE PROGRAM (if any): E-mail? Y/N Fax? Y/N DATA PACKAGE: I II III IV			

~~Page 2 of 11~~

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc
Date: 13-Oct-16

Client: Sailors Engineering Associates
Project Name: 700 Sandtown Rd
Lab ID: 1610603-001

Client Sample ID: MW-6
Collection Date: 10/6/2016 3:34:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	231020	1	10/13/2016 00:59	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	231020	1	10/13/2016 00:59	NH
1,1,2-Trichloroethane	BRL	5.0		ug/L	231020	1	10/13/2016 00:59	NH
1,1-Dichloroethane	BRL	5.0		ug/L	231020	1	10/13/2016 00:59	NH
1,1-Dichloroethene	BRL	5.0		ug/L	231020	1	10/13/2016 00:59	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	231020	1	10/13/2016 00:59	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	231020	1	10/13/2016 00:59	NH
1,2-Dibromoethane	BRL	5.0		ug/L	231020	1	10/13/2016 00:59	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	231020	1	10/13/2016 00:59	NH
1,2-Dichloroethane	BRL	5.0		ug/L	231020	1	10/13/2016 00:59	NH
1,2-Dichloropropane	BRL	5.0		ug/L	231020	1	10/13/2016 00:59	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	231020	1	10/13/2016 00:59	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	231020	1	10/13/2016 00:59	NH
2-Butanone	BRL	10		ug/L	231020	1	10/13/2016 00:59	NH
2-Hexanone	BRL	10		ug/L	231020	1	10/13/2016 00:59	NH
4-Methyl-2-pentanone	BRL	10		ug/L	231020	1	10/13/2016 00:59	NH
Acetone	BRL	20		ug/L	231020	1	10/13/2016 00:59	NH
Benzene	BRL	5.0		ug/L	231020	1	10/13/2016 00:59	NH
Bromodichloromethane	BRL	5.0		ug/L	231020	1	10/13/2016 00:59	NH
Bromoform	BRL	5.0		ug/L	231020	1	10/13/2016 00:59	NH
Bromomethane	BRL	5.0		ug/L	231020	1	10/13/2016 00:59	NH
Carbon disulfide	BRL	5.0		ug/L	231020	1	10/13/2016 00:59	NH
Carbon tetrachloride	BRL	5.0		ug/L	231020	1	10/13/2016 00:59	NH
Chlorobenzene	BRL	5.0		ug/L	231020	1	10/13/2016 00:59	NH
Chloroethane	BRL	10		ug/L	231020	1	10/13/2016 00:59	NH
Chloroform	BRL	5.0		ug/L	231020	1	10/13/2016 00:59	NH
Chloromethane	BRL	10		ug/L	231020	1	10/13/2016 00:59	NH
cis-1,2-Dichloroethene	150	5.0		ug/L	231020	1	10/13/2016 00:59	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	231020	1	10/13/2016 00:59	NH
Cyclohexane	BRL	5.0		ug/L	231020	1	10/13/2016 00:59	NH
Dibromochloromethane	BRL	5.0		ug/L	231020	1	10/13/2016 00:59	NH
Dichlorodifluoromethane	BRL	10		ug/L	231020	1	10/13/2016 00:59	NH
Ethylbenzene	BRL	5.0		ug/L	231020	1	10/13/2016 00:59	NH
Freon-113	BRL	10		ug/L	231020	1	10/13/2016 00:59	NH
Isopropylbenzene	BRL	5.0		ug/L	231020	1	10/13/2016 00:59	NH
m,p-Xylene	BRL	10		ug/L	231020	1	10/13/2016 00:59	NH
Methyl acetate	BRL	5.0		ug/L	231020	1	10/13/2016 00:59	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	231020	1	10/13/2016 00:59	NH
Methylcyclohexane	BRL	5.0		ug/L	231020	1	10/13/2016 00:59	NH
Methylene chloride	BRL	5.0		ug/L	231020	1	10/13/2016 00:59	NH
o-Xylene	BRL	5.0		ug/L	231020	1	10/13/2016 00:59	NH

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Oct-16

Client: Sailors Engineering Associates
Project Name: 700 Sandtown Rd
Lab ID: 1610603-001

Client Sample ID: MW-6
Collection Date: 10/6/2016 3:34:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	231020	1	10/13/2016 00:59	NH
Tetrachloroethene	200	50		ug/L	231020	10	10/13/2016 16:12	NH
Toluene	BRL	5.0		ug/L	231020	1	10/13/2016 00:59	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	231020	1	10/13/2016 00:59	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	231020	1	10/13/2016 00:59	NH
Trichloroethene	15	5.0		ug/L	231020	1	10/13/2016 00:59	NH
Trichlorofluoromethane	BRL	5.0		ug/L	231020	1	10/13/2016 00:59	NH
Vinyl chloride	BRL	2.0		ug/L	231020	1	10/13/2016 00:59	NH
Surr: 4-Bromofluorobenzene	88	70.7-125		%REC	231020	1	10/13/2016 00:59	NH
Surr: 4-Bromofluorobenzene	91.8	70.7-125		%REC	231020	10	10/13/2016 16:12	NH
Surr: Dibromofluoromethane	99	82.2-120		%REC	231020	1	10/13/2016 00:59	NH
Surr: Dibromofluoromethane	103	82.2-120		%REC	231020	10	10/13/2016 16:12	NH
Surr: Toluene-d8	92.3	81.8-120		%REC	231020	1	10/13/2016 00:59	NH
Surr: Toluene-d8	96.9	81.8-120		%REC	231020	10	10/13/2016 16:12	NH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 13-Oct-16

Client: Sailors Engineering Associates
Project Name: 700 Sandtown Rd
Lab ID: 1610603-002

Client Sample ID: TRIP BLANK
Collection Date: 10/7/2016
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	231020	1	10/12/2016 18:58	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	231020	1	10/12/2016 18:58	NH
1,1,2-Trichloroethane	BRL	5.0		ug/L	231020	1	10/12/2016 18:58	NH
1,1-Dichloroethane	BRL	5.0		ug/L	231020	1	10/12/2016 18:58	NH
1,1-Dichloroethene	BRL	5.0		ug/L	231020	1	10/12/2016 18:58	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	231020	1	10/12/2016 18:58	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	231020	1	10/12/2016 18:58	NH
1,2-Dibromoethane	BRL	5.0		ug/L	231020	1	10/12/2016 18:58	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	231020	1	10/12/2016 18:58	NH
1,2-Dichloroethane	BRL	5.0		ug/L	231020	1	10/12/2016 18:58	NH
1,2-Dichloropropane	BRL	5.0		ug/L	231020	1	10/12/2016 18:58	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	231020	1	10/12/2016 18:58	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	231020	1	10/12/2016 18:58	NH
2-Butanone	BRL	10		ug/L	231020	1	10/12/2016 18:58	NH
2-Hexanone	BRL	10		ug/L	231020	1	10/12/2016 18:58	NH
4-Methyl-2-pentanone	BRL	10		ug/L	231020	1	10/12/2016 18:58	NH
Acetone	BRL	20		ug/L	231020	1	10/12/2016 18:58	NH
Benzene	BRL	5.0		ug/L	231020	1	10/12/2016 18:58	NH
Bromodichloromethane	BRL	5.0		ug/L	231020	1	10/12/2016 18:58	NH
Bromoform	BRL	5.0		ug/L	231020	1	10/12/2016 18:58	NH
Bromomethane	BRL	5.0		ug/L	231020	1	10/12/2016 18:58	NH
Carbon disulfide	BRL	5.0		ug/L	231020	1	10/12/2016 18:58	NH
Carbon tetrachloride	BRL	5.0		ug/L	231020	1	10/12/2016 18:58	NH
Chlorobenzene	BRL	5.0		ug/L	231020	1	10/12/2016 18:58	NH
Chloroethane	BRL	10		ug/L	231020	1	10/12/2016 18:58	NH
Chloroform	BRL	5.0		ug/L	231020	1	10/12/2016 18:58	NH
Chloromethane	BRL	10		ug/L	231020	1	10/12/2016 18:58	NH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	231020	1	10/12/2016 18:58	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	231020	1	10/12/2016 18:58	NH
Cyclohexane	BRL	5.0		ug/L	231020	1	10/12/2016 18:58	NH
Dibromochloromethane	BRL	5.0		ug/L	231020	1	10/12/2016 18:58	NH
Dichlorodifluoromethane	BRL	10		ug/L	231020	1	10/12/2016 18:58	NH
Ethylbenzene	BRL	5.0		ug/L	231020	1	10/12/2016 18:58	NH
Freon-113	BRL	10		ug/L	231020	1	10/12/2016 18:58	NH
Isopropylbenzene	BRL	5.0		ug/L	231020	1	10/12/2016 18:58	NH
m,p-Xylene	BRL	10		ug/L	231020	1	10/12/2016 18:58	NH
Methyl acetate	BRL	5.0		ug/L	231020	1	10/12/2016 18:58	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	231020	1	10/12/2016 18:58	NH
Methylcyclohexane	BRL	5.0		ug/L	231020	1	10/12/2016 18:58	NH
Methylene chloride	BRL	5.0		ug/L	231020	1	10/12/2016 18:58	NH
o-Xylene	BRL	5.0		ug/L	231020	1	10/12/2016 18:58	NH

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Oct-16

Client: Sailors Engineering Associates
 Project Name: 700 Sandtown Rd
 Lab ID: 1610603-002

Client Sample ID: TRIP BLANK
 Collection Date: 10/7/2016
 Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	231020	1	10/12/2016 18:58	NH
Tetrachloroethene	BRL	5.0		ug/L	231020	1	10/12/2016 18:58	NH
Toluene	BRL	5.0		ug/L	231020	1	10/12/2016 18:58	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	231020	1	10/12/2016 18:58	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	231020	1	10/12/2016 18:58	NH
Trichloroethene	BRL	5.0		ug/L	231020	1	10/12/2016 18:58	NH
Trichlorofluoromethane	BRL	5.0		ug/L	231020	1	10/12/2016 18:58	NH
Vinyl chloride	BRL	2.0		ug/L	231020	1	10/12/2016 18:58	NH
Surr: 4-Bromofluorobenzene	91.5	70.7-125		%REC	231020	1	10/12/2016 18:58	NH
Surr: Dibromofluoromethane	98.1	82.2-120		%REC	231020	1	10/12/2016 18:58	NH
Surr: Toluene-d8	95.2	81.8-120		%REC	231020	1	10/12/2016 18:58	NH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client SEA

Work Order Number 1010603

Checklist completed by [Signature] Date 10/2/10

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? ($0^{\circ} \leq 6^{\circ}\text{C}$)* Yes ☒ No ☐

Cooler #1 3.2 Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted ☐ Yes ☒ No ☐

Water - pH acceptable upon receipt? Yes ☒ No ☐ Not Applicable ☐

Adjusted? ☐ Checked by ☐

Sample Condition: Good ☒ Other(Explain) ☐

(For diffusive samples or AIHA lead) Is a known blank included? Yes ☐ No ☒

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Aes_server\\Sample Receipt\\My Documents\\COCs and pH Adjustment Sheet\\Sample_Cooler_Recipt_Checklist_Rev1.rtf

Client: Sailors Engineering Associates
Project Name: 700 Sandtown Rd
Workorder: 1610603

ANALYTICAL QC SUMMARY REPORT**BatchID: 231020**

Sample ID: MB-231020	Client ID:					Units: ug/L	Prep Date: 10/12/2016	Run No: 327295			
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 231020	Analysis Date: 10/12/2016	Seq No: 7096245			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0
1,1,2,2-Tetrachloroethane	BRL	5.0
1,1,2-Trichloroethane	BRL	5.0
1,1-Dichloroethane	BRL	5.0
1,1-Dichloroethene	BRL	5.0
1,2,4-Trichlorobenzene	BRL	5.0
1,2-Dibromo-3-chloropropane	BRL	5.0
1,2-Dibromoethane	BRL	5.0
1,2-Dichlorobenzene	BRL	5.0
1,2-Dichloroethane	BRL	5.0
1,2-Dichloropropane	BRL	5.0
1,3-Dichlorobenzene	BRL	5.0
1,4-Dichlorobenzene	BRL	5.0
2-Butanone	BRL	50
2-Hexanone	BRL	10
4-Methyl-2-pentanone	BRL	10
Acetone	BRL	50
Benzene	BRL	5.0
Bromodichloromethane	BRL	5.0
Bromoform	BRL	5.0
Bromomethane	BRL	5.0
Carbon disulfide	BRL	5.0
Carbon tetrachloride	BRL	5.0
Chlorobenzene	BRL	5.0
Chloroethane	BRL	10
Chloroform	BRL	5.0
Chloromethane	BRL	10

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Sailors Engineering Associates
Project Name: 700 Sandtown Rd
Workorder: 1610603

ANALYTICAL QC SUMMARY REPORT**BatchID: 231020**

Sample ID: MB-231020	Client ID:					Units: ug/L	Prep Date: 10/12/2016		Run No: 327295		
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS	SW8260B				BatchID: 231020	Analysis Date: 10/12/2016		Seq No: 7096245		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	46.03	0	50.00		92.1	70.7	125				
Surr: Dibromofluoromethane	51.68	0	50.00		103	82.2	120				
Surr: Toluene-d8	48.87	0	50.00		97.7	81.8	120				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Sailors Engineering Associates
Project Name: 700 Sandtown Rd
Workorder: 1610603

ANALYTICAL QC SUMMARY REPORT**BatchID: 231020**

Sample ID: LCS-231020	Client ID:					Units: ug/L	Prep Date: 10/12/2016	Run No: 327295			
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 231020	Analysis Date: 10/12/2016	Seq No: 7096244			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	33.13	5.0	50.00		66.3	65.3	137				
Benzene	44.21	5.0	50.00		88.4	74.9	123				
Chlorobenzene	45.84	5.0	50.00		91.7	73.9	124				
Toluene	47.53	5.0	50.00		95.1	75	124				
Trichloroethene	43.82	5.0	50.00		87.6	73.1	128				
Surr: 4-Bromofluorobenzene	47.17	0	50.00		94.3	70.7	125				
Surr: Dibromofluoromethane	48.56	0	50.00		97.1	82.2	120				
Surr: Toluene-d8	47.84	0	50.00		95.7	81.8	120				

Sample ID: 1610680-002AMS	Client ID:					Units: ug/L	Prep Date: 10/12/2016	Run No: 327295			
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 231020	Analysis Date: 10/12/2016	Seq No: 7096256			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	51.37	5.0	50.00		103	60	150				
Benzene	50.42	5.0	50.00		101	70.1	132				
Chlorobenzene	48.41	5.0	50.00		96.8	70.9	131				
Toluene	53.63	5.0	50.00		107	70.1	133				
Trichloroethene	48.68	5.0	50.00		97.4	70	136				
Surr: 4-Bromofluorobenzene	45.49	0	50.00		91.0	70.7	125				
Surr: Dibromofluoromethane	51.31	0	50.00		103	82.2	120				
Surr: Toluene-d8	48.85	0	50.00		97.7	81.8	120				

Sample ID: 1610680-002AMSD	Client ID:				Units: ug/L	Prep Date: 10/12/2016	Run No: 327295				
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 231020	Analysis Date: 10/12/2016	Seq No: 7096257				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	51.91	5.0	50.00		104	60	150	51.37	1.05	17.7	
Benzene	48.24	5.0	50.00		96.5	70.1	132	50.42	4.42	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Sailors Engineering Associates
Project Name: 700 Sandtown Rd
Workorder: 1610603

ANALYTICAL QC SUMMARY REPORT

BatchID: 231020

Sample ID: 1610680-002AMSD	Client ID:					Units: ug/L	Prep Date: 10/12/2016	Run No: 327295			
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 231020	Analysis Date: 10/12/2016	Seq No: 7096257			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	49.10	5.0	50.00		98.2	70.9	131	48.41	1.42	20	
Toluene	52.01	5.0	50.00		104	70.1	133	53.63	3.07	20	
Trichloroethene	47.14	5.0	50.00		94.3	70	136	48.68	3.21	20	
Surr: 4-Bromofluorobenzene	45.63	0	50.00		91.3	70.7	125	45.49	0	0	
Surr: Dibromofluoromethane	50.69	0	50.00		101	82.2	120	51.31	0	0	
Surr: Toluene-d8	48.82	0	50.00		97.6	81.8	120	48.85	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

October 26, 2016

Michael Haller
Sailors Engineering Associates
1675 Spectrum Drive
Lawrenceville GA 30043

TEL: (770) 962-5922
FAX: (770) 962-7964

RE: 700 Sandtown

Dear Michael Haller:

Order No: 1610J76

Analytical Environmental Services, Inc. received 3 samples on October 24, 2016 4:19 pm for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- NELAC/Texas Certificate No. T104704509-16-6 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 03/01/16-02/28/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

Tyrel Heckendorf
Project Manager



TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 160576

Date: 10-24-16 Page 1 of 1

COMPANY: Sailor's Engineering		ADDRESS: 1675 Spectrum Drive Lawrenceville, GA		ANALYSIS REQUESTED								Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers			
PHONE: (770) 962-5922		FAX:															
SAMPLED BY: J. Kinard		SIGNATURE: <i>[Signature]</i>										REMARKS					
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)										
		DATE	TIME														
1	MW-7	10-24-16	15:33	✓		BW	✓										2
2	MW-8	10-24-16	14:47	✓		BW	✓										2
3	Trip Blank	10-24-16					✓										2
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
RELINQUISHED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		PROJECT INFORMATION								RECEIPT	
1: J. Kinard		10-24-16/4:19		1: Jerrin Shilly		10/24/16 4:19 pm		PROJECT NAME: 700 Sandtown								Total # of Containers	
2:				2:				PROJECT #: 152-018								Turnaround Time Request ☒ Standard 5 Business Days ☐ 2 Business Day Rush ☐ Next Business Day Rush ☐ Same Day Rush (auth req.) ☐ Other _____	
3:				3:				SITE ADDRESS: 700 Sandtown Rd Marietta, GA									
								SEND REPORT TO: M. Haller									
SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD:				INVOICE TO:								STATE PROGRAM (if any): _____	
				OUT / / VIA:				(IF DIFFERENT FROM ABOVE)								E-mail? _____ Fax? _____	
				IN / / VIA:												DATA PACKAGE: I O II O III O IV O	
				CLIENT FedEx UPS MAIL COURIER													
				GREYHOUND OTHER _____													
SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY. IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT. SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.																	

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc
Date: 26-Oct-16

Client: Sailors Engineering Associates
Project Name: 700 Sandtown
Lab ID: 1610J76-001

Client Sample ID: MW-7
Collection Date: 10/24/2016 3:33:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	231652	1	10/25/2016 15:09	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	231652	1	10/25/2016 15:09	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	231652	1	10/25/2016 15:09	BN
1,1-Dichloroethane	BRL	5.0		ug/L	231652	1	10/25/2016 15:09	BN
1,1-Dichloroethene	BRL	5.0		ug/L	231652	1	10/25/2016 15:09	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	231652	1	10/25/2016 15:09	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	231652	1	10/25/2016 15:09	BN
1,2-Dibromoethane	BRL	5.0		ug/L	231652	1	10/25/2016 15:09	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	231652	1	10/25/2016 15:09	BN
1,2-Dichloroethane	BRL	5.0		ug/L	231652	1	10/25/2016 15:09	BN
1,2-Dichloropropane	BRL	5.0		ug/L	231652	1	10/25/2016 15:09	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	231652	1	10/25/2016 15:09	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	231652	1	10/25/2016 15:09	BN
2-Butanone	BRL	50		ug/L	231652	1	10/25/2016 15:09	BN
2-Hexanone	BRL	10		ug/L	231652	1	10/25/2016 15:09	BN
4-Methyl-2-pentanone	BRL	10		ug/L	231652	1	10/25/2016 15:09	BN
Acetone	BRL	50		ug/L	231652	1	10/25/2016 15:09	BN
Benzene	BRL	5.0		ug/L	231652	1	10/25/2016 15:09	BN
Bromodichloromethane	BRL	5.0		ug/L	231652	1	10/25/2016 15:09	BN
Bromoform	BRL	5.0		ug/L	231652	1	10/25/2016 15:09	BN
Bromomethane	BRL	5.0		ug/L	231652	1	10/25/2016 15:09	BN
Carbon disulfide	BRL	5.0		ug/L	231652	1	10/25/2016 15:09	BN
Carbon tetrachloride	BRL	5.0		ug/L	231652	1	10/25/2016 15:09	BN
Chlorobenzene	BRL	5.0		ug/L	231652	1	10/25/2016 15:09	BN
Chloroethane	BRL	10		ug/L	231652	1	10/25/2016 15:09	BN
Chloroform	BRL	5.0		ug/L	231652	1	10/25/2016 15:09	BN
Chloromethane	BRL	10		ug/L	231652	1	10/25/2016 15:09	BN
cis-1,2-Dichloroethene	36	5.0		ug/L	231652	1	10/25/2016 15:09	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	231652	1	10/25/2016 15:09	BN
Cyclohexane	BRL	5.0		ug/L	231652	1	10/25/2016 15:09	BN
Dibromochloromethane	BRL	5.0		ug/L	231652	1	10/25/2016 15:09	BN
Dichlorodifluoromethane	BRL	10		ug/L	231652	1	10/25/2016 15:09	BN
Ethylbenzene	BRL	5.0		ug/L	231652	1	10/25/2016 15:09	BN
Freon-113	BRL	10		ug/L	231652	1	10/25/2016 15:09	BN
Isopropylbenzene	BRL	5.0		ug/L	231652	1	10/25/2016 15:09	BN
m,p-Xylene	BRL	5.0		ug/L	231652	1	10/25/2016 15:09	BN
Methyl acetate	BRL	5.0		ug/L	231652	1	10/25/2016 15:09	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	231652	1	10/25/2016 15:09	BN
Methylcyclohexane	BRL	5.0		ug/L	231652	1	10/25/2016 15:09	BN
Methylene chloride	BRL	5.0		ug/L	231652	1	10/25/2016 15:09	BN
o-Xylene	BRL	5.0		ug/L	231652	1	10/25/2016 15:09	BN

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 26-Oct-16

Client: Sailors Engineering Associates
 Project Name: 700 Sandtown
 Lab ID: 1610J76-001

Client Sample ID: MW-7
 Collection Date: 10/24/2016 3:33:00 PM
 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	231652	1	10/25/2016 15:09	BN
Tetrachloroethene	150	5.0		ug/L	231652	1	10/25/2016 15:09	BN
Toluene	BRL	5.0		ug/L	231652	1	10/25/2016 15:09	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	231652	1	10/25/2016 15:09	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	231652	1	10/25/2016 15:09	BN
Trichloroethene	5.7	5.0		ug/L	231652	1	10/25/2016 15:09	BN
Trichlorofluoromethane	BRL	5.0		ug/L	231652	1	10/25/2016 15:09	BN
Vinyl chloride	BRL	2.0		ug/L	231652	1	10/25/2016 15:09	BN
Surr: 4-Bromofluorobenzene	87.6	70.7-125		%REC	231652	1	10/25/2016 15:09	BN
Surr: Dibromofluoromethane	100	82.2-120		%REC	231652	1	10/25/2016 15:09	BN
Surr: Toluene-d8	91.4	81.8-120		%REC	231652	1	10/25/2016 15:09	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 26-Oct-16

Client: Sailors Engineering Associates
Project Name: 700 Sandtown
Lab ID: 1610J76-002

Client Sample ID: MW-8
Collection Date: 10/24/2016 2:47:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	231652	1	10/25/2016 15:34	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	231652	1	10/25/2016 15:34	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	231652	1	10/25/2016 15:34	BN
1,1-Dichloroethane	BRL	5.0		ug/L	231652	1	10/25/2016 15:34	BN
1,1-Dichloroethene	BRL	5.0		ug/L	231652	1	10/25/2016 15:34	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	231652	1	10/25/2016 15:34	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	231652	1	10/25/2016 15:34	BN
1,2-Dibromoethane	BRL	5.0		ug/L	231652	1	10/25/2016 15:34	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	231652	1	10/25/2016 15:34	BN
1,2-Dichloroethane	BRL	5.0		ug/L	231652	1	10/25/2016 15:34	BN
1,2-Dichloropropane	BRL	5.0		ug/L	231652	1	10/25/2016 15:34	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	231652	1	10/25/2016 15:34	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	231652	1	10/25/2016 15:34	BN
2-Butanone	BRL	50		ug/L	231652	1	10/25/2016 15:34	BN
2-Hexanone	BRL	10		ug/L	231652	1	10/25/2016 15:34	BN
4-Methyl-2-pentanone	BRL	10		ug/L	231652	1	10/25/2016 15:34	BN
Acetone	BRL	50		ug/L	231652	1	10/25/2016 15:34	BN
Benzene	BRL	5.0		ug/L	231652	1	10/25/2016 15:34	BN
Bromodichloromethane	BRL	5.0		ug/L	231652	1	10/25/2016 15:34	BN
Bromoform	BRL	5.0		ug/L	231652	1	10/25/2016 15:34	BN
Bromomethane	BRL	5.0		ug/L	231652	1	10/25/2016 15:34	BN
Carbon disulfide	BRL	5.0		ug/L	231652	1	10/25/2016 15:34	BN
Carbon tetrachloride	BRL	5.0		ug/L	231652	1	10/25/2016 15:34	BN
Chlorobenzene	BRL	5.0		ug/L	231652	1	10/25/2016 15:34	BN
Chloroethane	BRL	10		ug/L	231652	1	10/25/2016 15:34	BN
Chloroform	BRL	5.0		ug/L	231652	1	10/25/2016 15:34	BN
Chloromethane	BRL	10		ug/L	231652	1	10/25/2016 15:34	BN
cis-1,2-Dichloroethene	9.4	5.0		ug/L	231652	1	10/25/2016 15:34	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	231652	1	10/25/2016 15:34	BN
Cyclohexane	BRL	5.0		ug/L	231652	1	10/25/2016 15:34	BN
Dibromochloromethane	BRL	5.0		ug/L	231652	1	10/25/2016 15:34	BN
Dichlorodifluoromethane	BRL	10		ug/L	231652	1	10/25/2016 15:34	BN
Ethylbenzene	BRL	5.0		ug/L	231652	1	10/25/2016 15:34	BN
Freon-113	BRL	10		ug/L	231652	1	10/25/2016 15:34	BN
Isopropylbenzene	BRL	5.0		ug/L	231652	1	10/25/2016 15:34	BN
m,p-Xylene	BRL	5.0		ug/L	231652	1	10/25/2016 15:34	BN
Methyl acetate	BRL	5.0		ug/L	231652	1	10/25/2016 15:34	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	231652	1	10/25/2016 15:34	BN
Methylcyclohexane	BRL	5.0		ug/L	231652	1	10/25/2016 15:34	BN
Methylene chloride	BRL	5.0		ug/L	231652	1	10/25/2016 15:34	BN
o-Xylene	BRL	5.0		ug/L	231652	1	10/25/2016 15:34	BN

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 26-Oct-16

Client: Sailors Engineering Associates
 Project Name: 700 Sandtown
 Lab ID: 1610J76-002

Client Sample ID: MW-8
 Collection Date: 10/24/2016 2:47:00 PM
 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	231652	1	10/25/2016 15:34	BN
Tetrachloroethene	58	5.0		ug/L	231652	1	10/25/2016 15:34	BN
Toluene	BRL	5.0		ug/L	231652	1	10/25/2016 15:34	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	231652	1	10/25/2016 15:34	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	231652	1	10/25/2016 15:34	BN
Trichloroethene	BRL	5.0		ug/L	231652	1	10/25/2016 15:34	BN
Trichlorofluoromethane	BRL	5.0		ug/L	231652	1	10/25/2016 15:34	BN
Vinyl chloride	BRL	2.0		ug/L	231652	1	10/25/2016 15:34	BN
Surr: 4-Bromofluorobenzene	86.4	70.7-125		%REC	231652	1	10/25/2016 15:34	BN
Surr: Dibromofluoromethane	107	82.2-120		%REC	231652	1	10/25/2016 15:34	BN
Surr: Toluene-d8	99.6	81.8-120		%REC	231652	1	10/25/2016 15:34	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 26-Oct-16

Client: Sailors Engineering Associates
Project Name: 700 Sandtown
Lab ID: 1610J76-003

Client Sample ID: TRIP BLANK
Collection Date: 10/24/2016
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	231652	1	10/25/2016 13:51	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	231652	1	10/25/2016 13:51	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	231652	1	10/25/2016 13:51	BN
1,1-Dichloroethane	BRL	5.0		ug/L	231652	1	10/25/2016 13:51	BN
1,1-Dichloroethene	BRL	5.0		ug/L	231652	1	10/25/2016 13:51	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	231652	1	10/25/2016 13:51	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	231652	1	10/25/2016 13:51	BN
1,2-Dibromoethane	BRL	5.0		ug/L	231652	1	10/25/2016 13:51	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	231652	1	10/25/2016 13:51	BN
1,2-Dichloroethane	BRL	5.0		ug/L	231652	1	10/25/2016 13:51	BN
1,2-Dichloropropane	BRL	5.0		ug/L	231652	1	10/25/2016 13:51	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	231652	1	10/25/2016 13:51	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	231652	1	10/25/2016 13:51	BN
2-Butanone	BRL	50		ug/L	231652	1	10/25/2016 13:51	BN
2-Hexanone	BRL	10		ug/L	231652	1	10/25/2016 13:51	BN
4-Methyl-2-pentanone	BRL	10		ug/L	231652	1	10/25/2016 13:51	BN
Acetone	BRL	50		ug/L	231652	1	10/25/2016 13:51	BN
Benzene	BRL	5.0		ug/L	231652	1	10/25/2016 13:51	BN
Bromodichloromethane	BRL	5.0		ug/L	231652	1	10/25/2016 13:51	BN
Bromoform	BRL	5.0		ug/L	231652	1	10/25/2016 13:51	BN
Bromomethane	BRL	5.0		ug/L	231652	1	10/25/2016 13:51	BN
Carbon disulfide	BRL	5.0		ug/L	231652	1	10/25/2016 13:51	BN
Carbon tetrachloride	BRL	5.0		ug/L	231652	1	10/25/2016 13:51	BN
Chlorobenzene	BRL	5.0		ug/L	231652	1	10/25/2016 13:51	BN
Chloroethane	BRL	10		ug/L	231652	1	10/25/2016 13:51	BN
Chloroform	BRL	5.0		ug/L	231652	1	10/25/2016 13:51	BN
Chloromethane	BRL	10		ug/L	231652	1	10/25/2016 13:51	BN
cis-1,2-Dichloroethene	BRL	5.0		ug/L	231652	1	10/25/2016 13:51	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	231652	1	10/25/2016 13:51	BN
Cyclohexane	BRL	5.0		ug/L	231652	1	10/25/2016 13:51	BN
Dibromochloromethane	BRL	5.0		ug/L	231652	1	10/25/2016 13:51	BN
Dichlorodifluoromethane	BRL	10		ug/L	231652	1	10/25/2016 13:51	BN
Ethylbenzene	BRL	5.0		ug/L	231652	1	10/25/2016 13:51	BN
Freon-113	BRL	10		ug/L	231652	1	10/25/2016 13:51	BN
Isopropylbenzene	BRL	5.0		ug/L	231652	1	10/25/2016 13:51	BN
m,p-Xylene	BRL	5.0		ug/L	231652	1	10/25/2016 13:51	BN
Methyl acetate	BRL	5.0		ug/L	231652	1	10/25/2016 13:51	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	231652	1	10/25/2016 13:51	BN
Methylcyclohexane	BRL	5.0		ug/L	231652	1	10/25/2016 13:51	BN
Methylene chloride	BRL	5.0		ug/L	231652	1	10/25/2016 13:51	BN
o-Xylene	BRL	5.0		ug/L	231652	1	10/25/2016 13:51	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 26-Oct-16

Client:	Sailors Engineering Associates	Client Sample ID:	TRIP BLANK
Project Name:	700 Sandtown	Collection Date:	10/24/2016
Lab ID:	1610J76-003	Matrix:	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	231652	1	10/25/2016 13:51	BN
Tetrachloroethene	BRL	5.0		ug/L	231652	1	10/25/2016 13:51	BN
Toluene	BRL	5.0		ug/L	231652	1	10/25/2016 13:51	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	231652	1	10/25/2016 13:51	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	231652	1	10/25/2016 13:51	BN
Trichloroethene	BRL	5.0		ug/L	231652	1	10/25/2016 13:51	BN
Trichlorofluoromethane	BRL	5.0		ug/L	231652	1	10/25/2016 13:51	BN
Vinyl chloride	BRL	2.0		ug/L	231652	1	10/25/2016 13:51	BN
Surr: 4-Bromofluorobenzene	88.9	70.7-125		%REC	231652	1	10/25/2016 13:51	BN
Surr: Dibromofluoromethane	103	82.2-120		%REC	231652	1	10/25/2016 13:51	BN
Surr: Toluene-d8	93.9	81.8-120		%REC	231652	1	10/25/2016 13:51	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Sailor's Eng. Work Order Number 1610576

Checklist completed by [Signature] Date 10-24-16
Signature Date

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? ($0^{\circ} \leq 6^{\circ}\text{C}$) * Yes ☒ No ☐

Cooler #1 2.5 Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted ☐ Yes ☒ No ☐

Water - pH acceptable upon receipt? Yes ☒ No ☐ Not Applicable ☐

Adjusted? ☐ Checked by ☐

Sample Condition: Good ☒ Other(Explain) ☐

(For diffusive samples or AIHA lead) Is a known blank included? Yes ☐ No ☒

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Aes_server\1\Sample Receipt\My Documents\COCs and pH Adjustment Sheet\Sample_Cooler_Recipt_Checklist_Rev1.rtf

Client: Sailors Engineering Associates
Project Name: 700 Sandtown
Workorder: 1610J76

ANALYTICAL QC SUMMARY REPORT**BatchID: 231652**

Sample ID: MB-231652	Client ID:	Units: ug/L				Prep Date: 10/24/2016	Run No: 328059				
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 231652				Analysis Date: 10/24/2016	Seq No: 7116389				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0
1,1,2,2-Tetrachloroethane	BRL	5.0
1,1,2-Trichloroethane	BRL	5.0
1,1-Dichloroethane	BRL	5.0
1,1-Dichloroethene	BRL	5.0
1,2,4-Trichlorobenzene	BRL	5.0
1,2-Dibromo-3-chloropropane	BRL	5.0
1,2-Dibromoethane	BRL	5.0
1,2-Dichlorobenzene	BRL	5.0
1,2-Dichloroethane	BRL	5.0
1,2-Dichloropropane	BRL	5.0
1,3-Dichlorobenzene	BRL	5.0
1,4-Dichlorobenzene	BRL	5.0
2-Butanone	BRL	50
2-Hexanone	BRL	10
4-Methyl-2-pentanone	BRL	10
Acetone	BRL	50
Benzene	BRL	5.0
Bromodichloromethane	BRL	5.0
Bromoform	BRL	5.0
Bromomethane	BRL	5.0
Carbon disulfide	BRL	5.0
Carbon tetrachloride	BRL	5.0
Chlorobenzene	BRL	5.0
Chloroethane	BRL	10
Chloroform	BRL	5.0
Chloromethane	BRL	10

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Sailors Engineering Associates
Project Name: 700 Sandtown
Workorder: 1610J76

ANALYTICAL QC SUMMARY REPORT

BatchID: 231652

Sample ID: MB-231652		Client ID:		Units: ug/L		Prep Date: 10/24/2016		Run No: 328059			
SampleType: MBLK		TestCode: TCL VOLATILE ORGANICS SW8260B		BatchID: 231652		Analysis Date: 10/24/2016		Seq No: 7116389			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	46.07	0	50.00		92.1	70.7	125				
Surr: Dibromofluoromethane	58.10	0	50.00		116	82.2	120				
Surr: Toluene-d8	51.03	0	50.00		102	81.8	120				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Sailors Engineering Associates
Project Name: 700 Sandtown
Workorder: 1610J76

ANALYTICAL QC SUMMARY REPORT**BatchID: 231652**

Sample ID: LCS-231652	Client ID:					Units: ug/L	Prep Date: 10/24/2016	Run No: 328059			
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 231652	Analysis Date: 10/24/2016	Seq No: 7116388			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	47.53	5.0	50.00		95.1	65.3	137				
Benzene	53.31	5.0	50.00		107	74.9	123				
Chlorobenzene	56.94	5.0	50.00		114	73.9	124				
Toluene	55.46	5.0	50.00		111	75	124				
Trichloroethene	55.36	5.0	50.00		111	73.1	128				
Surr: 4-Bromofluorobenzene	53.91	0	50.00		108	70.7	125				
Surr: Dibromofluoromethane	47.39	0	50.00		94.8	82.2	120				
Surr: Toluene-d8	46.15	0	50.00		92.3	81.8	120				

Sample ID: 1610H02-001AMS	Client ID:					Units: ug/L	Prep Date: 10/24/2016	Run No: 328059			
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 231652	Analysis Date: 10/24/2016	Seq No: 7119111			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	2505	250	2500		100	60	150				
Benzene	2532	250	2500		101	70.1	132				
Chlorobenzene	2380	250	2500		95.2	70.9	131				
Toluene	2648	250	2500		106	70.1	133				
Trichloroethene	2504	250	2500		100	70	136				
Surr: 4-Bromofluorobenzene	2552	0	2500		102	70.7	125				
Surr: Dibromofluoromethane	2675	0	2500		107	82.2	120				
Surr: Toluene-d8	2418	0	2500		96.7	81.8	120				

Sample ID: 1610H02-001AMSD	Client ID:				Units: ug/L	Prep Date: 10/24/2016	Run No: 328059				
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 231652	Analysis Date: 10/24/2016	Seq No: 7119112				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	2265	250	2500		90.6	60	150	2505	10.1	17.7	
Benzene	2380	250	2500		95.2	70.1	132	2532	6.17	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Sailors Engineering Associates
Project Name: 700 Sandtown
Workorder: 1610J76

ANALYTICAL QC SUMMARY REPORT

BatchID: 231652

Sample ID: 1610H02-001AMSD	Client ID:					Units: ug/L	Prep Date: 10/24/2016	Run No: 328059			
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 231652	Analysis Date: 10/24/2016	Seq No: 7119112			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	2353	250	2500		94.1	70.9	131	2380	1.14	20	
Toluene	2494	250	2500		99.7	70.1	133	2648	6.01	20	
Trichloroethene	2486	250	2500		99.4	70	136	2504	0.741	20	
Surr: 4-Bromofluorobenzene	2492	0	2500		99.7	70.7	125	2552	0	0	
Surr: Dibromofluoromethane	2436	0	2500		97.5	82.2	120	2675	0	0	
Surr: Toluene-d8	2328	0	2500		93.1	81.8	120	2418	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

October 30, 2015

Michael Haller
Sailors Engineering Associates
1675 Spectrum Drive
Lawrenceville GA 30043

TEL: (770) 962-5922
FAX: (770) 962-7964

RE: Sandtown Rd.

Dear Michael Haller:

Order No: 1510L53

Analytical Environmental Services, Inc. received 6 samples on 10/22/2015 2:49:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/15-06/30/16.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Dorothy deBruvn
Project Manager



AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

Work Order: 510423

Date: 10/22/15 Page 1 of 1

COMPANY: **Sailors Eng. Assoc.**

PHONE: **770-962-5922**

SAMPLED BY: **Michael Short**

ADDRESS: **1675 Spectrum Dr
Lawrenceville, GA 30043**

FAX:

SIGNATURE: 

ANALYSIS REQUESTED

VOC

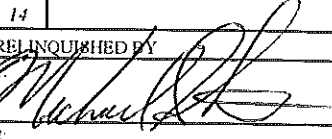
PRESERVATION (See codes)

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

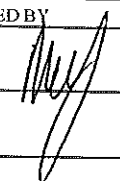
REMARKS

No # of Containers

#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	VOC	PRESERVATION (See codes)	REMARKS	No # of Containers
		DATE	TIME							
1	MW-5	10/21	11:55	/		GW	/			2
2	MW-4	10/21	13:27	/		GW	/			2
3	MW-2	10/21	15:34	/		GW	/			2
4	MW-1	10/22	12:20	/		GW	/			2
5	MW-3	10/22	13:53	/		GW	/			2
6	Trips Blank	10/22				W	/			2
7										
8										
9										
10										
11										
12										
13										
14										

RELINQUISHED BY: 

DATE/TIME: **10/22/15 14:49**

RECEIVED BY: 

DATE/TIME: **10/22/15 2:49 PM**

PROJECT INFORMATION

PROJECT NAME: **Sandtown Rd**

PROJECT #: **152-018**

SITE ADDRESS: **700 Sandtown Rd Marietta**

SEND REPORT TO: **Mike Haller**

INVOICE TO: (IF DIFFERENT FROM ABOVE)

QUOTE #: _____ PO#: _____

RECEIPT

Total # of Containers: **12**

Turnaround Time Request

☒ Standard 5 Business Days
☐ 2 Business Day Rush
☐ Next Business Day Rush
☐ Same Day Rush (auth req.)
☐ Other _____

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD

OUT / / VIA:

IN  VIA:

CLIENT FedEx UPS MAIL COURIER GREYHOUND OTHER

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.

MATRIX CODES: A = Air GW = Groundwater SF = Sediment PQ = Petroleum

STATE PROGRAM (if any): _____

E-mail? ☒ N, Fax? ☐ Y / N

DATA PACKAGE: I II III IV

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/A+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Client: Sailors Engineering Associates
Project: Sandtown Rd.
Lab ID: 1510L53

Case Narrative

Volatiles Organic Compounds Analysis by Method 8260B:

Due to sample matrix, samples 1510L53-005A required dilution during preparation and/or analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc
Date: 30-Oct-15

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Lab ID: 1510L53-001

Client Sample ID: MW-5
Collection Date: 10/21/2015 11:55:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	215154	1	10/28/2015 08:24	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	215154	1	10/28/2015 08:24	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	215154	1	10/28/2015 08:24	CH
1,1-Dichloroethane	BRL	5.0		ug/L	215154	1	10/28/2015 08:24	CH
1,1-Dichloroethene	BRL	5.0		ug/L	215154	1	10/28/2015 08:24	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	215154	1	10/28/2015 08:24	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	215154	1	10/28/2015 08:24	CH
1,2-Dibromoethane	BRL	5.0		ug/L	215154	1	10/28/2015 08:24	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	215154	1	10/28/2015 08:24	CH
1,2-Dichloroethane	BRL	5.0		ug/L	215154	1	10/28/2015 08:24	CH
1,2-Dichloropropane	BRL	5.0		ug/L	215154	1	10/28/2015 08:24	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	215154	1	10/28/2015 08:24	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	215154	1	10/28/2015 08:24	CH
2-Butanone	BRL	50		ug/L	215154	1	10/28/2015 08:24	CH
2-Hexanone	BRL	10		ug/L	215154	1	10/28/2015 08:24	CH
4-Methyl-2-pentanone	BRL	10		ug/L	215154	1	10/28/2015 08:24	CH
Acetone	BRL	50		ug/L	215154	1	10/28/2015 08:24	CH
Benzene	BRL	5.0		ug/L	215154	1	10/28/2015 08:24	CH
Bromodichloromethane	BRL	5.0		ug/L	215154	1	10/28/2015 08:24	CH
Bromoform	BRL	5.0		ug/L	215154	1	10/28/2015 08:24	CH
Bromomethane	BRL	5.0		ug/L	215154	1	10/28/2015 08:24	CH
Carbon disulfide	BRL	5.0		ug/L	215154	1	10/28/2015 08:24	CH
Carbon tetrachloride	BRL	5.0		ug/L	215154	1	10/28/2015 08:24	CH
Chlorobenzene	BRL	5.0		ug/L	215154	1	10/28/2015 08:24	CH
Chloroethane	BRL	10		ug/L	215154	1	10/28/2015 08:24	CH
Chloroform	BRL	5.0		ug/L	215154	1	10/28/2015 08:24	CH
Chloromethane	BRL	10		ug/L	215154	1	10/28/2015 08:24	CH
cis-1,2-Dichloroethene	3100	500		ug/L	215154	100	10/29/2015 15:13	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	215154	1	10/28/2015 08:24	CH
Cyclohexane	BRL	5.0		ug/L	215154	1	10/28/2015 08:24	CH
Dibromochloromethane	BRL	5.0		ug/L	215154	1	10/28/2015 08:24	CH
Dichlorodifluoromethane	BRL	10		ug/L	215154	1	10/28/2015 08:24	CH
Ethylbenzene	BRL	5.0		ug/L	215154	1	10/28/2015 08:24	CH
Freon-113	BRL	10		ug/L	215154	1	10/28/2015 08:24	CH
Isopropylbenzene	BRL	5.0		ug/L	215154	1	10/28/2015 08:24	CH
m,p-Xylene	BRL	5.0		ug/L	215154	1	10/28/2015 08:24	CH
Methyl acetate	BRL	5.0		ug/L	215154	1	10/28/2015 08:24	CH
Methyl tert-butyl ether	15	5.0		ug/L	215154	1	10/28/2015 08:24	CH
Methylcyclohexane	BRL	5.0		ug/L	215154	1	10/28/2015 08:24	CH
Methylene chloride	BRL	5.0		ug/L	215154	1	10/28/2015 08:24	CH
o-Xylene	BRL	5.0		ug/L	215154	1	10/28/2015 08:24	CH

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Oct-15

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Lab ID: 1510L53-001

Client Sample ID: MW-5
Collection Date: 10/21/2015 11:55:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	215154	1	10/28/2015 08:24	CH
Tetrachloroethene	8000	500		ug/L	215154	100	10/29/2015 15:13	AR
Toluene	BRL	5.0		ug/L	215154	1	10/28/2015 08:24	CH
trans-1,2-Dichloroethene	94	5.0		ug/L	215154	1	10/28/2015 08:24	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	215154	1	10/28/2015 08:24	CH
Trichloroethene	650	500		ug/L	215154	100	10/29/2015 15:13	AR
Trichlorofluoromethane	BRL	5.0		ug/L	215154	1	10/28/2015 08:24	CH
Vinyl chloride	56	2.0		ug/L	215154	1	10/28/2015 08:24	CH
Surr: 4-Bromofluorobenzene	90.8	70.6-123		%REC	215154	100	10/29/2015 15:13	AR
Surr: 4-Bromofluorobenzene	95.4	70.6-123		%REC	215154	1	10/28/2015 08:24	CH
Surr: Dibromofluoromethane	90.7	78.7-124		%REC	215154	1	10/28/2015 08:24	CH
Surr: Dibromofluoromethane	104	78.7-124		%REC	215154	100	10/29/2015 15:13	AR
Surr: Toluene-d8	94.5	81.3-120		%REC	215154	1	10/28/2015 08:24	CH
Surr: Toluene-d8	106	81.3-120		%REC	215154	100	10/29/2015 15:13	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 30-Oct-15

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Lab ID: 1510L53-002

Client Sample ID: MW-4
Collection Date: 10/21/2015 1:27:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	215154	1	10/29/2015 18:25	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	215154	1	10/29/2015 18:25	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	215154	1	10/29/2015 18:25	AR
1,1-Dichloroethane	BRL	5.0		ug/L	215154	1	10/29/2015 18:25	AR
1,1-Dichloroethene	BRL	5.0		ug/L	215154	1	10/29/2015 18:25	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	215154	1	10/29/2015 18:25	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	215154	1	10/29/2015 18:25	AR
1,2-Dibromoethane	BRL	5.0		ug/L	215154	1	10/29/2015 18:25	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	215154	1	10/29/2015 18:25	AR
1,2-Dichloroethane	BRL	5.0		ug/L	215154	1	10/29/2015 18:25	AR
1,2-Dichloropropane	BRL	5.0		ug/L	215154	1	10/29/2015 18:25	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	215154	1	10/29/2015 18:25	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	215154	1	10/29/2015 18:25	AR
2-Butanone	BRL	50		ug/L	215154	1	10/29/2015 18:25	AR
2-Hexanone	BRL	10		ug/L	215154	1	10/29/2015 18:25	AR
4-Methyl-2-pentanone	BRL	10		ug/L	215154	1	10/29/2015 18:25	AR
Acetone	BRL	50		ug/L	215154	1	10/29/2015 18:25	AR
Benzene	BRL	5.0		ug/L	215154	1	10/29/2015 18:25	AR
Bromodichloromethane	BRL	5.0		ug/L	215154	1	10/29/2015 18:25	AR
Bromoform	BRL	5.0		ug/L	215154	1	10/29/2015 18:25	AR
Bromomethane	BRL	5.0		ug/L	215154	1	10/29/2015 18:25	AR
Carbon disulfide	BRL	5.0		ug/L	215154	1	10/29/2015 18:25	AR
Carbon tetrachloride	BRL	5.0		ug/L	215154	1	10/29/2015 18:25	AR
Chlorobenzene	BRL	5.0		ug/L	215154	1	10/29/2015 18:25	AR
Chloroethane	BRL	10		ug/L	215154	1	10/29/2015 18:25	AR
Chloroform	BRL	5.0		ug/L	215154	1	10/29/2015 18:25	AR
Chloromethane	BRL	10		ug/L	215154	1	10/29/2015 18:25	AR
cis-1,2-Dichloroethene	2600	500		ug/L	215154	100	10/29/2015 15:43	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	215154	1	10/29/2015 18:25	AR
Cyclohexane	BRL	5.0		ug/L	215154	1	10/29/2015 18:25	AR
Dibromochloromethane	BRL	5.0		ug/L	215154	1	10/29/2015 18:25	AR
Dichlorodifluoromethane	BRL	10		ug/L	215154	1	10/29/2015 18:25	AR
Ethylbenzene	BRL	5.0		ug/L	215154	1	10/29/2015 18:25	AR
Freon-113	BRL	10		ug/L	215154	1	10/29/2015 18:25	AR
Isopropylbenzene	BRL	5.0		ug/L	215154	1	10/29/2015 18:25	AR
m,p-Xylene	BRL	5.0		ug/L	215154	1	10/29/2015 18:25	AR
Methyl acetate	BRL	5.0		ug/L	215154	1	10/29/2015 18:25	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	215154	1	10/29/2015 18:25	AR
Methylcyclohexane	BRL	5.0		ug/L	215154	1	10/29/2015 18:25	AR
Methylene chloride	BRL	5.0		ug/L	215154	1	10/29/2015 18:25	AR
o-Xylene	BRL	5.0		ug/L	215154	1	10/29/2015 18:25	AR

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Oct-15

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Lab ID: 1510L53-002

Client Sample ID: MW-4
Collection Date: 10/21/2015 1:27:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	215154	1	10/29/2015 18:25	AR
Tetrachloroethene	120	5.0		ug/L	215154	1	10/29/2015 18:25	AR
Toluene	BRL	5.0		ug/L	215154	1	10/29/2015 18:25	AR
trans-1,2-Dichloroethene	12	5.0		ug/L	215154	1	10/29/2015 18:25	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	215154	1	10/29/2015 18:25	AR
Trichloroethene	94	5.0		ug/L	215154	1	10/29/2015 18:25	AR
Trichlorofluoromethane	BRL	5.0		ug/L	215154	1	10/29/2015 18:25	AR
Vinyl chloride	41	2.0		ug/L	215154	1	10/29/2015 18:25	AR
Surr: 4-Bromofluorobenzene	89.8	70.6-123		%REC	215154	100	10/29/2015 15:43	AR
Surr: 4-Bromofluorobenzene	91.1	70.6-123		%REC	215154	1	10/29/2015 18:25	AR
Surr: Dibromofluoromethane	104	78.7-124		%REC	215154	1	10/29/2015 18:25	AR
Surr: Dibromofluoromethane	104	78.7-124		%REC	215154	100	10/29/2015 15:43	AR
Surr: Toluene-d8	104	81.3-120		%REC	215154	100	10/29/2015 15:43	AR
Surr: Toluene-d8	105	81.3-120		%REC	215154	1	10/29/2015 18:25	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 30-Oct-15

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Lab ID: 1510L53-003

Client Sample ID: MW-2
Collection Date: 10/21/2015 3:34:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	215154	1	10/29/2015 18:55	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	215154	1	10/29/2015 18:55	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	215154	1	10/29/2015 18:55	AR
1,1-Dichloroethane	BRL	5.0		ug/L	215154	1	10/29/2015 18:55	AR
1,1-Dichloroethene	BRL	5.0		ug/L	215154	1	10/29/2015 18:55	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	215154	1	10/29/2015 18:55	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	215154	1	10/29/2015 18:55	AR
1,2-Dibromoethane	BRL	5.0		ug/L	215154	1	10/29/2015 18:55	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	215154	1	10/29/2015 18:55	AR
1,2-Dichloroethane	BRL	5.0		ug/L	215154	1	10/29/2015 18:55	AR
1,2-Dichloropropane	BRL	5.0		ug/L	215154	1	10/29/2015 18:55	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	215154	1	10/29/2015 18:55	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	215154	1	10/29/2015 18:55	AR
2-Butanone	BRL	50		ug/L	215154	1	10/29/2015 18:55	AR
2-Hexanone	BRL	10		ug/L	215154	1	10/29/2015 18:55	AR
4-Methyl-2-pentanone	BRL	10		ug/L	215154	1	10/29/2015 18:55	AR
Acetone	BRL	50		ug/L	215154	1	10/29/2015 18:55	AR
Benzene	BRL	5.0		ug/L	215154	1	10/29/2015 18:55	AR
Bromodichloromethane	BRL	5.0		ug/L	215154	1	10/29/2015 18:55	AR
Bromoform	BRL	5.0		ug/L	215154	1	10/29/2015 18:55	AR
Bromomethane	BRL	5.0		ug/L	215154	1	10/29/2015 18:55	AR
Carbon disulfide	BRL	5.0		ug/L	215154	1	10/29/2015 18:55	AR
Carbon tetrachloride	BRL	5.0		ug/L	215154	1	10/29/2015 18:55	AR
Chlorobenzene	BRL	5.0		ug/L	215154	1	10/29/2015 18:55	AR
Chloroethane	BRL	10		ug/L	215154	1	10/29/2015 18:55	AR
Chloroform	BRL	5.0		ug/L	215154	1	10/29/2015 18:55	AR
Chloromethane	BRL	10		ug/L	215154	1	10/29/2015 18:55	AR
cis-1,2-Dichloroethene	1800	500		ug/L	215154	100	10/29/2015 16:13	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	215154	1	10/29/2015 18:55	AR
Cyclohexane	BRL	5.0		ug/L	215154	1	10/29/2015 18:55	AR
Dibromochloromethane	BRL	5.0		ug/L	215154	1	10/29/2015 18:55	AR
Dichlorodifluoromethane	BRL	10		ug/L	215154	1	10/29/2015 18:55	AR
Ethylbenzene	BRL	5.0		ug/L	215154	1	10/29/2015 18:55	AR
Freon-113	BRL	10		ug/L	215154	1	10/29/2015 18:55	AR
Isopropylbenzene	BRL	5.0		ug/L	215154	1	10/29/2015 18:55	AR
m,p-Xylene	BRL	5.0		ug/L	215154	1	10/29/2015 18:55	AR
Methyl acetate	BRL	5.0		ug/L	215154	1	10/29/2015 18:55	AR
Methyl tert-butyl ether	12	5.0		ug/L	215154	1	10/29/2015 18:55	AR
Methylcyclohexane	BRL	5.0		ug/L	215154	1	10/29/2015 18:55	AR
Methylene chloride	BRL	5.0		ug/L	215154	1	10/29/2015 18:55	AR
o-Xylene	BRL	5.0		ug/L	215154	1	10/29/2015 18:55	AR

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Oct-15

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Lab ID: 1510L53-003

Client Sample ID: MW-2
Collection Date: 10/21/2015 3:34:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	215154	1	10/29/2015 18:55	AR
Tetrachloroethene	1300	500		ug/L	215154	100	10/29/2015 16:13	AR
Toluene	BRL	5.0		ug/L	215154	1	10/29/2015 18:55	AR
trans-1,2-Dichloroethene	34	5.0		ug/L	215154	1	10/29/2015 18:55	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	215154	1	10/29/2015 18:55	AR
Trichloroethene	290	100		ug/L	215154	100	10/29/2015 16:13	AR
Trichlorofluoromethane	BRL	5.0		ug/L	215154	1	10/29/2015 18:55	AR
Vinyl chloride	200	100		ug/L	215154	100	10/29/2015 16:13	AR
Surr: 4-Bromofluorobenzene	90.8	70.6-123		%REC	215154	1	10/29/2015 18:55	AR
Surr: 4-Bromofluorobenzene	92.5	70.6-123		%REC	215154	100	10/29/2015 16:13	AR
Surr: Dibromofluoromethane	102	78.7-124		%REC	215154	1	10/29/2015 18:55	AR
Surr: Dibromofluoromethane	104	78.7-124		%REC	215154	100	10/29/2015 16:13	AR
Surr: Toluene-d8	101	81.3-120		%REC	215154	1	10/29/2015 18:55	AR
Surr: Toluene-d8	101	81.3-120		%REC	215154	100	10/29/2015 16:13	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 30-Oct-15

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Lab ID: 1510L53-004

Client Sample ID: MW-1
Collection Date: 10/22/2015 12:20:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	215154	1	10/29/2015 19:25	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	215154	1	10/29/2015 19:25	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	215154	1	10/29/2015 19:25	AR
1,1-Dichloroethane	BRL	5.0		ug/L	215154	1	10/29/2015 19:25	AR
1,1-Dichloroethene	BRL	5.0		ug/L	215154	1	10/29/2015 19:25	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	215154	1	10/29/2015 19:25	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	215154	1	10/29/2015 19:25	AR
1,2-Dibromoethane	BRL	5.0		ug/L	215154	1	10/29/2015 19:25	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	215154	1	10/29/2015 19:25	AR
1,2-Dichloroethane	BRL	5.0		ug/L	215154	1	10/29/2015 19:25	AR
1,2-Dichloropropane	BRL	5.0		ug/L	215154	1	10/29/2015 19:25	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	215154	1	10/29/2015 19:25	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	215154	1	10/29/2015 19:25	AR
2-Butanone	BRL	50		ug/L	215154	1	10/29/2015 19:25	AR
2-Hexanone	BRL	10		ug/L	215154	1	10/29/2015 19:25	AR
4-Methyl-2-pentanone	BRL	10		ug/L	215154	1	10/29/2015 19:25	AR
Acetone	BRL	50		ug/L	215154	1	10/29/2015 19:25	AR
Benzene	BRL	5.0		ug/L	215154	1	10/29/2015 19:25	AR
Bromodichloromethane	BRL	5.0		ug/L	215154	1	10/29/2015 19:25	AR
Bromoform	BRL	5.0		ug/L	215154	1	10/29/2015 19:25	AR
Bromomethane	BRL	5.0		ug/L	215154	1	10/29/2015 19:25	AR
Carbon disulfide	BRL	5.0		ug/L	215154	1	10/29/2015 19:25	AR
Carbon tetrachloride	BRL	5.0		ug/L	215154	1	10/29/2015 19:25	AR
Chlorobenzene	BRL	5.0		ug/L	215154	1	10/29/2015 19:25	AR
Chloroethane	BRL	10		ug/L	215154	1	10/29/2015 19:25	AR
Chloroform	BRL	5.0		ug/L	215154	1	10/29/2015 19:25	AR
Chloromethane	34	10		ug/L	215154	1	10/29/2015 19:25	AR
cis-1,2-Dichloroethene	1000	500		ug/L	215154	100	10/29/2015 16:55	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	215154	1	10/29/2015 19:25	AR
Cyclohexane	BRL	5.0		ug/L	215154	1	10/29/2015 19:25	AR
Dibromochloromethane	BRL	5.0		ug/L	215154	1	10/29/2015 19:25	AR
Dichlorodifluoromethane	BRL	10		ug/L	215154	1	10/29/2015 19:25	AR
Ethylbenzene	BRL	5.0		ug/L	215154	1	10/29/2015 19:25	AR
Freon-113	BRL	10		ug/L	215154	1	10/29/2015 19:25	AR
Isopropylbenzene	BRL	5.0		ug/L	215154	1	10/29/2015 19:25	AR
m,p-Xylene	BRL	5.0		ug/L	215154	1	10/29/2015 19:25	AR
Methyl acetate	BRL	5.0		ug/L	215154	1	10/29/2015 19:25	AR
Methyl tert-butyl ether	21	5.0		ug/L	215154	1	10/29/2015 19:25	AR
Methylcyclohexane	BRL	5.0		ug/L	215154	1	10/29/2015 19:25	AR
Methylene chloride	BRL	5.0		ug/L	215154	1	10/29/2015 19:25	AR
o-Xylene	BRL	5.0		ug/L	215154	1	10/29/2015 19:25	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Oct-15

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Lab ID: 1510L53-004

Client Sample ID: MW-1
Collection Date: 10/22/2015 12:20:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	215154	1	10/29/2015 19:25	AR
Tetrachloroethene	3900	500		ug/L	215154	100	10/29/2015 16:55	AR
Toluene	BRL	5.0		ug/L	215154	1	10/29/2015 19:25	AR
trans-1,2-Dichloroethene	86	5.0		ug/L	215154	1	10/29/2015 19:25	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	215154	1	10/29/2015 19:25	AR
Trichloroethene	540	500		ug/L	215154	100	10/29/2015 16:55	AR
Trichlorofluoromethane	BRL	5.0		ug/L	215154	1	10/29/2015 19:25	AR
Vinyl chloride	BRL	2.0		ug/L	215154	1	10/29/2015 19:25	AR
Surr: 4-Bromofluorobenzene	89.6	70.6-123		%REC	215154	1	10/29/2015 19:25	AR
Surr: 4-Bromofluorobenzene	90.8	70.6-123		%REC	215154	100	10/29/2015 16:55	AR
Surr: Dibromofluoromethane	101	78.7-124		%REC	215154	100	10/29/2015 16:55	AR
Surr: Dibromofluoromethane	104	78.7-124		%REC	215154	1	10/29/2015 19:25	AR
Surr: Toluene-d8	102	81.3-120		%REC	215154	1	10/29/2015 19:25	AR
Surr: Toluene-d8	102	81.3-120		%REC	215154	100	10/29/2015 16:55	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 30-Oct-15

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Lab ID: 1510L53-005

Client Sample ID: MW-3
Collection Date: 10/22/2015 1:53:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	500		ug/L	215154	100	10/29/2015 17:25	AR
1,1,2,2-Tetrachloroethane	BRL	500		ug/L	215154	100	10/29/2015 17:25	AR
1,1,2-Trichloroethane	BRL	500		ug/L	215154	100	10/29/2015 17:25	AR
1,1-Dichloroethane	BRL	500		ug/L	215154	100	10/29/2015 17:25	AR
1,1-Dichloroethene	BRL	500		ug/L	215154	100	10/29/2015 17:25	AR
1,2,4-Trichlorobenzene	BRL	500		ug/L	215154	100	10/29/2015 17:25	AR
1,2-Dibromo-3-chloropropane	BRL	500		ug/L	215154	100	10/29/2015 17:25	AR
1,2-Dibromoethane	BRL	500		ug/L	215154	100	10/29/2015 17:25	AR
1,2-Dichlorobenzene	BRL	500		ug/L	215154	100	10/29/2015 17:25	AR
1,2-Dichloroethane	BRL	500		ug/L	215154	100	10/29/2015 17:25	AR
1,2-Dichloropropane	BRL	500		ug/L	215154	100	10/29/2015 17:25	AR
1,3-Dichlorobenzene	BRL	500		ug/L	215154	100	10/29/2015 17:25	AR
1,4-Dichlorobenzene	BRL	500		ug/L	215154	100	10/29/2015 17:25	AR
2-Butanone	BRL	5000		ug/L	215154	100	10/29/2015 17:25	AR
2-Hexanone	BRL	1000		ug/L	215154	100	10/29/2015 17:25	AR
4-Methyl-2-pentanone	BRL	1000		ug/L	215154	100	10/29/2015 17:25	AR
Acetone	BRL	5000		ug/L	215154	100	10/29/2015 17:25	AR
Benzene	BRL	500		ug/L	215154	100	10/29/2015 17:25	AR
Bromodichloromethane	BRL	500		ug/L	215154	100	10/29/2015 17:25	AR
Bromoform	BRL	500		ug/L	215154	100	10/29/2015 17:25	AR
Bromomethane	BRL	500		ug/L	215154	100	10/29/2015 17:25	AR
Carbon disulfide	BRL	500		ug/L	215154	100	10/29/2015 17:25	AR
Carbon tetrachloride	BRL	500		ug/L	215154	100	10/29/2015 17:25	AR
Chlorobenzene	BRL	500		ug/L	215154	100	10/29/2015 17:25	AR
Chloroethane	BRL	1000		ug/L	215154	100	10/29/2015 17:25	AR
Chloroform	BRL	500		ug/L	215154	100	10/29/2015 17:25	AR
Chloromethane	BRL	1000		ug/L	215154	100	10/29/2015 17:25	AR
cis-1,2-Dichloroethene	3700	500		ug/L	215154	100	10/29/2015 17:25	AR
cis-1,3-Dichloropropene	BRL	500		ug/L	215154	100	10/29/2015 17:25	AR
Cyclohexane	BRL	500		ug/L	215154	100	10/29/2015 17:25	AR
Dibromochloromethane	BRL	500		ug/L	215154	100	10/29/2015 17:25	AR
Dichlorodifluoromethane	BRL	1000		ug/L	215154	100	10/29/2015 17:25	AR
Ethylbenzene	BRL	500		ug/L	215154	100	10/29/2015 17:25	AR
Freon-113	BRL	1000		ug/L	215154	100	10/29/2015 17:25	AR
Isopropylbenzene	BRL	500		ug/L	215154	100	10/29/2015 17:25	AR
m,p-Xylene	BRL	500		ug/L	215154	100	10/29/2015 17:25	AR
Methyl acetate	BRL	500		ug/L	215154	100	10/29/2015 17:25	AR
Methyl tert-butyl ether	BRL	500		ug/L	215154	100	10/29/2015 17:25	AR
Methylcyclohexane	BRL	500		ug/L	215154	100	10/29/2015 17:25	AR
Methylene chloride	BRL	500		ug/L	215154	100	10/29/2015 17:25	AR
o-Xylene	BRL	500		ug/L	215154	100	10/29/2015 17:25	AR

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Oct-15

Client: Sailors Engineering Associates
 Project Name: Sandtown Rd.
 Lab ID: 1510L53-005

Client Sample ID: MW-3
 Collection Date: 10/22/2015 1:53:00 PM
 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	500		ug/L	215154	100	10/29/2015 17:25	AR
Tetrachloroethene	20000	2500		ug/L	215154	500	10/30/2015 00:32	MD
Toluene	BRL	500		ug/L	215154	100	10/29/2015 17:25	AR
trans-1,2-Dichloroethene	BRL	500		ug/L	215154	100	10/29/2015 17:25	AR
trans-1,3-Dichloropropene	BRL	500		ug/L	215154	100	10/29/2015 17:25	AR
Trichloroethene	1000	500		ug/L	215154	100	10/29/2015 17:25	AR
Trichlorofluoromethane	BRL	500		ug/L	215154	100	10/29/2015 17:25	AR
Vinyl chloride	BRL	200		ug/L	215154	100	10/29/2015 17:25	AR
Surr: 4-Bromofluorobenzene	91.9	70.6-123		%REC	215154	500	10/30/2015 00:32	MD
Surr: 4-Bromofluorobenzene	92.6	70.6-123		%REC	215154	100	10/29/2015 17:25	AR
Surr: Dibromofluoromethane	107	78.7-124		%REC	215154	500	10/30/2015 00:32	MD
Surr: Dibromofluoromethane	103	78.7-124		%REC	215154	100	10/29/2015 17:25	AR
Surr: Toluene-d8	104	81.3-120		%REC	215154	500	10/30/2015 00:32	MD
Surr: Toluene-d8	104	81.3-120		%REC	215154	100	10/29/2015 17:25	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Oct-15

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Lab ID: 1510L53-006

Client Sample ID: TRIP BLANK
Collection Date: 10/22/2015
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	215154	1	10/27/2015 21:21	MD
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	215154	1	10/27/2015 21:21	MD
1,1,2-Trichloroethane	BRL	5.0		ug/L	215154	1	10/27/2015 21:21	MD
1,1-Dichloroethane	BRL	5.0		ug/L	215154	1	10/27/2015 21:21	MD
1,1-Dichloroethene	BRL	5.0		ug/L	215154	1	10/27/2015 21:21	MD
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	215154	1	10/27/2015 21:21	MD
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	215154	1	10/27/2015 21:21	MD
1,2-Dibromoethane	BRL	5.0		ug/L	215154	1	10/27/2015 21:21	MD
1,2-Dichlorobenzene	BRL	5.0		ug/L	215154	1	10/27/2015 21:21	MD
1,2-Dichloroethane	BRL	5.0		ug/L	215154	1	10/27/2015 21:21	MD
1,2-Dichloropropane	BRL	5.0		ug/L	215154	1	10/27/2015 21:21	MD
1,3-Dichlorobenzene	BRL	5.0		ug/L	215154	1	10/27/2015 21:21	MD
1,4-Dichlorobenzene	BRL	5.0		ug/L	215154	1	10/27/2015 21:21	MD
2-Butanone	BRL	50		ug/L	215154	1	10/27/2015 21:21	MD
2-Hexanone	BRL	10		ug/L	215154	1	10/27/2015 21:21	MD
4-Methyl-2-pentanone	BRL	10		ug/L	215154	1	10/27/2015 21:21	MD
Acetone	BRL	50		ug/L	215154	1	10/27/2015 21:21	MD
Benzene	BRL	5.0		ug/L	215154	1	10/27/2015 21:21	MD
Bromodichloromethane	BRL	5.0		ug/L	215154	1	10/27/2015 21:21	MD
Bromoform	BRL	5.0		ug/L	215154	1	10/27/2015 21:21	MD
Bromomethane	BRL	5.0		ug/L	215154	1	10/27/2015 21:21	MD
Carbon disulfide	BRL	5.0		ug/L	215154	1	10/27/2015 21:21	MD
Carbon tetrachloride	BRL	5.0		ug/L	215154	1	10/27/2015 21:21	MD
Chlorobenzene	BRL	5.0		ug/L	215154	1	10/27/2015 21:21	MD
Chloroethane	BRL	10		ug/L	215154	1	10/27/2015 21:21	MD
Chloroform	BRL	5.0		ug/L	215154	1	10/27/2015 21:21	MD
Chloromethane	BRL	10		ug/L	215154	1	10/27/2015 21:21	MD
cis-1,2-Dichloroethene	BRL	5.0		ug/L	215154	1	10/27/2015 21:21	MD
cis-1,3-Dichloropropene	BRL	5.0		ug/L	215154	1	10/27/2015 21:21	MD
Cyclohexane	BRL	5.0		ug/L	215154	1	10/27/2015 21:21	MD
Dibromochloromethane	BRL	5.0		ug/L	215154	1	10/27/2015 21:21	MD
Dichlorodifluoromethane	BRL	10		ug/L	215154	1	10/27/2015 21:21	MD
Ethylbenzene	BRL	5.0		ug/L	215154	1	10/27/2015 21:21	MD
Freon-113	BRL	10		ug/L	215154	1	10/27/2015 21:21	MD
Isopropylbenzene	BRL	5.0		ug/L	215154	1	10/27/2015 21:21	MD
m,p-Xylene	BRL	5.0		ug/L	215154	1	10/27/2015 21:21	MD
Methyl acetate	BRL	5.0		ug/L	215154	1	10/27/2015 21:21	MD
Methyl tert-butyl ether	BRL	5.0		ug/L	215154	1	10/27/2015 21:21	MD
Methylcyclohexane	BRL	5.0		ug/L	215154	1	10/27/2015 21:21	MD
Methylene chloride	BRL	5.0		ug/L	215154	1	10/27/2015 21:21	MD
o-Xylene	BRL	5.0		ug/L	215154	1	10/27/2015 21:21	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Oct-15

Client: Sailors Engineering Associates
 Project Name: Sandtown Rd.
 Lab ID: 1510L53-006

Client Sample ID: TRIP BLANK
 Collection Date: 10/22/2015
 Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	215154	1	10/27/2015 21:21	MD
Tetrachloroethene	BRL	5.0		ug/L	215154	1	10/27/2015 21:21	MD
Toluene	BRL	5.0		ug/L	215154	1	10/27/2015 21:21	MD
trans-1,2-Dichloroethene	BRL	5.0		ug/L	215154	1	10/27/2015 21:21	MD
trans-1,3-Dichloropropene	BRL	5.0		ug/L	215154	1	10/27/2015 21:21	MD
Trichloroethene	BRL	5.0		ug/L	215154	1	10/27/2015 21:21	MD
Trichlorofluoromethane	BRL	5.0		ug/L	215154	1	10/27/2015 21:21	MD
Vinyl chloride	BRL	2.0		ug/L	215154	1	10/27/2015 21:21	MD
Surr: 4-Bromofluorobenzene	87.2	70.6-123		%REC	215154	1	10/27/2015 21:21	MD
Surr: Dibromofluoromethane	91.2	78.7-124		%REC	215154	1	10/27/2015 21:21	MD
Surr: Toluene-d8	95.4	81.3-120		%REC	215154	1	10/27/2015 21:21	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Sailors Eng. Assoc.

Work Order Number 1510L53

Checklist completed by [Signature] Date 10-23-15

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? ($0^{\circ} \leq 6^{\circ}C$) * Yes ☒ No ☐

Cooler #1 4.2°C Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted Yes ☒ No ☐

Water - pH acceptable upon receipt? Yes ☒ No ☐ Not Applicable ☐

Adjusted? ☐ Checked by ☐

Sample Condition: Good ☒ Other(Explain) ☐

(For diffusive samples or ALHA lead) Is a known blank included? Yes ☐ No ☒

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Aes_server\\Sample Receipt\\My Documents\\COCs and pH Adjustment Sheet\\Sample_Cooler_Recipt_Checklist_Rev1.rtf

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Workorder: 1510L53

ANALYTICAL QC SUMMARY REPORT**BatchID: 215154**

Sample ID: MB-215154	Client ID:	Units: ug/L				Prep Date: 10/27/2015	Run No: 302986				
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 215154				Analysis Date: 10/27/2015	Seq No: 6485787				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Workorder: 1510L53

ANALYTICAL QC SUMMARY REPORT

BatchID: 215154

Sample ID: MB-215154	Client ID:					Units: ug/L	Prep Date: 10/27/2015		Run No: 302986		
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 215154	Analysis Date: 10/27/2015		Seq No: 6485787		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	45.94	0	50.00		91.9	70.6	123				
Surr: Dibromofluoromethane	51.22	0	50.00		102	78.7	124				
Surr: Toluene-d8	47.86	0	50.00		95.7	81.3	120				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Workorder: 1510L53

ANALYTICAL QC SUMMARY REPORT**BatchID: 215154**

Sample ID: LCS-215154	Client ID:					Units: ug/L	Prep Date: 10/27/2015	Run No: 302986			
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS	SW8260B	BatchID: 215154				Analysis Date: 10/27/2015	Seq No: 6485786			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	57.32	5.0	50.00		115	64.2	137				
Benzene	53.75	5.0	50.00		108	72.8	128				
Chlorobenzene	51.86	5.0	50.00		104	72.3	126				
Toluene	52.24	5.0	50.00		104	74.9	127				
Trichloroethene	57.51	5.0	50.00		115	70.5	134				
Surr: 4-Bromofluorobenzene	45.39	0	50.00		90.8	70.6	123				
Surr: Dibromofluoromethane	46.73	0	50.00		93.5	78.7	124				
Surr: Toluene-d8	49.31	0	50.00		98.6	81.3	120				

Sample ID: 1510O09-001AMS	Client ID:					Units: ug/L	Prep Date: 10/27/2015	Run No: 303024			
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 215154	Analysis Date: 10/28/2015	Seq No: 6485796			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	42.88	5.0	50.00		85.8	60.5	156				
Benzene	41.31	5.0	50.00		82.6	70	135				
Chlorobenzene	41.44	5.0	50.00		82.9	70.5	132				
Toluene	41.59	5.0	50.00		83.2	70.5	137				
Trichloroethene	43.46	5.0	50.00		86.9	71.8	139				
Surr: 4-Bromofluorobenzene	41.63	0	50.00		83.3	70.6	123				
Surr: Dibromofluoromethane	48.37	0	50.00		96.7	78.7	124				
Surr: Toluene-d8	49.13	0	50.00		98.3	81.3	120				

Sample ID: 1510O09-001AMSD	Client ID:					Units: ug/L	Prep Date: 10/27/2015	Run No: 303024			
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 215154	Analysis Date: 10/28/2015	Seq No: 6485797			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	46.96	5.0	50.00		93.9	60.5	156	42.88	9.08	20	
Benzene	40.04	5.0	50.00		80.1	70	135	41.31	3.12	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Workorder: 1510L53

ANALYTICAL QC SUMMARY REPORT

BatchID: 215154

Sample ID: 1510O09-001AMSD	Client ID:				Units: ug/L	Prep Date: 10/27/2015	Run No: 303024				
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 215154	Analysis Date: 10/28/2015	Seq No: 6485797				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	42.03	5.0	50.00		84.1	70.5	132	41.44	1.41	20	
Toluene	40.20	5.0	50.00		80.4	70.5	137	41.59	3.40	20	
Trichloroethene	43.77	5.0	50.00		87.5	71.8	139	43.46	0.711	20	
Surr: 4-Bromofluorobenzene	40.69	0	50.00		81.4	70.6	123	41.63	0	0	
Surr: Dibromofluoromethane	46.09	0	50.00		92.2	78.7	124	48.37	0	0	
Surr: Toluene-d8	45.92	0	50.00		91.8	81.3	120	49.13	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Appendix 7: Laboratory Data Sheets for Landfill Acceptance of Excavated Soil

Summary of Soil Sample Analyses for Landfill Acceptance of Excavated Soil

Westside Cleaners
700 Sandtown Road, Marietta, Georgia
HSI #10927
SEA Job #152-018

Sample Location	Date	1,2-DCB	1,3-DCB	1,4-DCB	cDCE	Ethylbenzene	Isopropylbenzene	Methylene Chloride	PCE	tDCE	TCE	Xylenes	TCLP PCE
		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/L
RO-1	6/25/15	0.013	<0.0047	<0.0047	0.29	<0.0047	<0.0047	<0.019	53	<0.0047	0.12	<0.0047	0.30
RO-2	6/25/15	0.021	<0.0055	<0.0055	0.61	0.0063	0.020	0.033	17	0.0085	0.20	0.0283	0.22
RO-3	6/25/15	0.011	<0.0051	<0.0051	0.28	<0.0051	<0.0051	<0.020	90	<0.0051	0.20	<0.0051	1.0
	7/15/15												NS
	11/23/15												0.11
RO-4	6/25/15	0.037	<0.0065	<0.0065	0.26	0.0072	0.012	<0.026	340	<0.0065	0.26	0.0248	13
	7/15/15												2.4
	11/23/15												<0.10
RO-5	6/25/15	0.0071	<0.0053	<0.0053	0.30	<0.0053	<0.0053	<0.021	11	<0.0053	0.16	0.0057	0.23
RO-6	6/25/15	0.14	<0.0054	0.016	0.54	0.039	0.17	<0.022	160	<0.0054	0.49	0.203	1.6
	7/15/16												1.3
	11/23/15												0.26
RO-7	6/25/15	0.26	0.0096	0.034	0.39	0.042	0.18	<0.026	370	<0.0064	0.63	0.186	3.2
	7/15/15												3.6
	11/23/15												0.39

NS - Not Sampled



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

June 30, 2015

Michael Haller
Sailors Engineering Associates
1675 Spectrum Drive
Lawrenceville GA 30043

TEL: (770) 962-5922
FAX: (770) 962-7964

RE: Sandtown Rd.

Dear Michael Haller:

Order No: 1506R09

Analytical Environmental Services, Inc. received 7 samples on 6/25/2015 6:02:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/15-06/30/16.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Dorothy deBruvn
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

AES

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order:

1506R09

Date:

6/25/15

Page

1

of

1

COMPANY: Sailors Eng Assoc		ADDRESS: 1675 Spectown Dr Lawrenceville, Ga 30043		ANALYSIS REQUESTED												Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers			
PHONE: 770-962-5922		FAX:		VOC TCUP VOC PRESERVATION (See codes)																	
SAMPLED BY: Michael Short		SIGNATURE: 																			
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)															
		DATE	TIME																		
1	RO-1	6/25	14:08		/	So	/	/									5				
2	RO-2	6/25	14:42		/	So	/	/									5				
3	RO-3	6/25	15:05		/	So	/	/									5				
4	RO-5	6/25	15:33		/	So	/	/									5				
5	RO-4	6/25	16:01		/	So	/	/									5				
6	RO-6	6/25	16:25		/	So	/	/									5				
7	RO-7	6/25	16:49		/	So	/	/									5				
8																					
9																					
10																					
11																					
12																					
13																					
14																					
RELINQUISHED BY: 		DATE/TIME: 6/25/15 18:02		RECEIVED BY: 		DATE/TIME: 6/25/15 6:02		PROJECT INFORMATION												RECEIPT	
1:				1:				PROJECT NAME: Sandtown Rd												Total # of Containers 35	
2:				2:				PROJECT #: 152-018												Turnaround Time Request ☒ Standard 5 Business Days ☐ 2 Business Day Rush ☐ Next Business Day Rush ☐ Same Day Rush (auth req.) ☐ Other	
3:				3:				SITE ADDRESS: 700 Sandtown Rd													
								SEND REPORT TO: Mike Haller													
SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD				INVOICE TO: (IF DIFFERENT FROM ABOVE)												STATE PROGRAM (if any):	
				OUT / / VIA: IN / / VIA: CLIENT FedEx UPS MAIL COURIER GREYHOUND OTHER																E-mail: ☒ Y / N; Fax? Y / N	
								QUOTE #:												DATA PACKAGE: I II III IV	

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.
SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Page 2 of 29

White Copy - Original; Yellow Copy - Client

Client: Sailors Engineering Associates
Project: Sandtown Rd.
Lab ID: 1506R09

Case Narrative

3 Day Rush per Mike Haller.

Volatile Organic Compounds Analysis by Method 8260B:

cis-1,2-Dichloroethene value for samples 1506R09-001A/-002A/-003A/-004A is "E" qualified indicating an estimated value over linear calibration range. Samples were diluted and reanalyzed with analyte being below reporting limit due to the level of dilution required for other compounds.

Trichloroethene value for sample 1506R09-005A is "E" qualified indicating an estimated value over linear calibration range. Sample was diluted and reanalyzed with analyte being below reporting limit due to the level of dilution required for other compounds.

cis-1,2-Dichloroethene, & Trichloroethene values for samples 1506R09-006A are "E" qualified indicating an estimated value over linear calibration range. Sample was diluted and reanalyzed with analyte being below reporting limit due to the level of dilution required for other compounds.

1,2-Dichlorobenzene, cis-1,2-Dichloroethene, & Trichloroethene values for samples 1506R09-007A are "E" qualified indicating an estimated value over linear calibration range. Sample was diluted and reanalyzed with analyte being below reporting limit due to the level of dilution required for other compounds.

Analytical Environmental Services, Inc
Date: 30-Jun-15

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Lab ID: 1506R09-001

Client Sample ID: RO-1
Collection Date: 6/25/2015 2:08:00 PM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILES, TCLP SW1311/8260B				(SW5030B)				
1,1-Dichloroethene	BRL	0.10		mg/L	209547	20	06/30/2015 06:10	AR
1,2-Dichloroethane	BRL	0.10		mg/L	209547	20	06/30/2015 06:10	AR
2-Butanone	BRL	0.20		mg/L	209547	20	06/30/2015 06:10	AR
Benzene	BRL	0.10		mg/L	209547	20	06/30/2015 06:10	AR
Carbon tetrachloride	BRL	0.10		mg/L	209547	20	06/30/2015 06:10	AR
Chlorobenzene	BRL	0.10		mg/L	209547	20	06/30/2015 06:10	AR
Chloroform	BRL	0.10		mg/L	209547	20	06/30/2015 06:10	AR
Tetrachloroethene	0.30	0.10		mg/L	209547	20	06/30/2015 06:10	AR
Trichloroethene	BRL	0.10		mg/L	209547	20	06/30/2015 06:10	AR
Vinyl chloride	BRL	0.040		mg/L	209547	20	06/30/2015 06:10	AR
Surr: 4-Bromofluorobenzene	88.6	68.7-127		%REC	209547	20	06/30/2015 06:10	AR
Surr: Dibromofluoromethane	102	77.4-121		%REC	209547	20	06/30/2015 06:10	AR
Surr: Toluene-d8	91.3	79.2-120		%REC	209547	20	06/30/2015 06:10	AR
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
1,1,1-Trichloroethane	BRL	0.0047		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
1,1,2,2-Tetrachloroethane	BRL	0.0047		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
1,1,2-Trichloroethane	BRL	0.0047		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
1,1-Dichloroethane	BRL	0.0047		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
1,1-Dichloroethene	BRL	0.0047		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
1,2,4-Trichlorobenzene	BRL	0.0047		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
1,2-Dibromo-3-chloropropane	BRL	0.0047		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
1,2-Dibromoethane	BRL	0.0047		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
1,2-Dichlorobenzene	0.013	0.0047		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
1,2-Dichloroethane	BRL	0.0047		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
1,2-Dichloropropane	BRL	0.0047		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
1,3-Dichlorobenzene	BRL	0.0047		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
1,4-Dichlorobenzene	BRL	0.0047		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
2-Butanone	BRL	0.047		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
2-Hexanone	BRL	0.0094		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
4-Methyl-2-pentanone	BRL	0.0094		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
Acetone	BRL	0.094		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
Benzene	BRL	0.0047		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
Bromodichloromethane	BRL	0.0047		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
Bromoform	BRL	0.0047		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
Bromomethane	BRL	0.0047		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
Carbon disulfide	BRL	0.0094		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
Carbon tetrachloride	BRL	0.0047		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
Chlorobenzene	BRL	0.0047		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
Chloroethane	BRL	0.0094		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
Chloroform	BRL	0.0047		mg/Kg-dry	209349	1	06/26/2015 20:03	CG

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Jun-15

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Lab ID: 1506R09-001

Client Sample ID: RO-1
Collection Date: 6/25/2015 2:08:00 PM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Chloromethane	BRL	0.0094		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
cis-1,2-Dichloroethene	0.29	0.0047	E	mg/Kg-dry	209349	1	06/26/2015 20:03	CG
cis-1,3-Dichloropropene	BRL	0.0047		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
Cyclohexane	BRL	0.0047		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
Dibromochloromethane	BRL	0.0047		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
Dichlorodifluoromethane	BRL	0.0094		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
Ethylbenzene	BRL	0.0047		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
Freon-113	BRL	0.0094		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
Isopropylbenzene	BRL	0.0047		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
m,p-Xylene	BRL	0.0047		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
Methyl acetate	BRL	0.0047		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
Methyl tert-butyl ether	BRL	0.0047		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
Methylcyclohexane	BRL	0.0047		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
Methylene chloride	BRL	0.019		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
o-Xylene	BRL	0.0047		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
Styrene	BRL	0.0047		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
Tetrachloroethene	53	2.6		mg/Kg-dry	209366	500	06/29/2015 16:51	TH
Toluene	BRL	0.0047		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
trans-1,2-Dichloroethene	BRL	0.0047		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
trans-1,3-Dichloropropene	BRL	0.0047		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
Trichloroethene	0.12	0.0047		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
Trichlorofluoromethane	BRL	0.0047		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
Vinyl chloride	BRL	0.0094		mg/Kg-dry	209349	1	06/26/2015 20:03	CG
Surr: 4-Bromofluorobenzene	93.6	70-128		%REC	209349	1	06/26/2015 20:03	CG
Surr: 4-Bromofluorobenzene	96.4	70-128		%REC	209366	500	06/29/2015 16:51	TH
Surr: Dibromofluoromethane	115	78.2-128		%REC	209349	1	06/26/2015 20:03	CG
Surr: Dibromofluoromethane	95	78.2-128		%REC	209366	500	06/29/2015 16:51	TH
Surr: Toluene-d8	96.7	76.5-116		%REC	209349	1	06/26/2015 20:03	CG
Surr: Toluene-d8	97.6	76.5-116		%REC	209366	500	06/29/2015 16:51	TH
PERCENT MOISTURE D2216								
Percent Moisture	15.2	0		wt%	R295059	1	06/30/2015 11:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 30-Jun-15

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Lab ID: 1506R09-002

Client Sample ID: RO-2
Collection Date: 6/25/2015 2:42:00 PM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILES, TCLP SW1311/8260B				(SW5030B)				
1,1-Dichloroethene	BRL	0.10		mg/L	209547	20	06/30/2015 07:28	AR
1,2-Dichloroethane	BRL	0.10		mg/L	209547	20	06/30/2015 07:28	AR
2-Butanone	BRL	0.20		mg/L	209547	20	06/30/2015 07:28	AR
Benzene	BRL	0.10		mg/L	209547	20	06/30/2015 07:28	AR
Carbon tetrachloride	BRL	0.10		mg/L	209547	20	06/30/2015 07:28	AR
Chlorobenzene	BRL	0.10		mg/L	209547	20	06/30/2015 07:28	AR
Chloroform	BRL	0.10		mg/L	209547	20	06/30/2015 07:28	AR
Tetrachloroethene	0.22	0.10		mg/L	209547	20	06/30/2015 07:28	AR
Trichloroethene	BRL	0.10		mg/L	209547	20	06/30/2015 07:28	AR
Vinyl chloride	BRL	0.040		mg/L	209547	20	06/30/2015 07:28	AR
Surr: 4-Bromofluorobenzene	88.3	68.7-127		%REC	209547	20	06/30/2015 07:28	AR
Surr: Dibromofluoromethane	97.7	77.4-121		%REC	209547	20	06/30/2015 07:28	AR
Surr: Toluene-d8	90.7	79.2-120		%REC	209547	20	06/30/2015 07:28	AR
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
1,1,1-Trichloroethane	BRL	0.0055		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
1,1,2,2-Tetrachloroethane	BRL	0.0055		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
1,1,2-Trichloroethane	BRL	0.0055		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
1,1-Dichloroethane	BRL	0.0055		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
1,1-Dichloroethene	BRL	0.0055		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
1,2,4-Trichlorobenzene	BRL	0.0055		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
1,2-Dibromo-3-chloropropane	BRL	0.0055		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
1,2-Dibromoethane	BRL	0.0055		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
1,2-Dichlorobenzene	0.021	0.0055		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
1,2-Dichloroethane	BRL	0.0055		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
1,2-Dichloropropane	BRL	0.0055		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
1,3-Dichlorobenzene	BRL	0.0055		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
1,4-Dichlorobenzene	BRL	0.0055		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
2-Butanone	BRL	0.055		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
2-Hexanone	BRL	0.011		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
4-Methyl-2-pentanone	BRL	0.011		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
Acetone	BRL	0.11		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
Benzene	BRL	0.0055		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
Bromodichloromethane	BRL	0.0055		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
Bromoform	BRL	0.0055		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
Bromomethane	BRL	0.0055		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
Carbon disulfide	BRL	0.011		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
Carbon tetrachloride	BRL	0.0055		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
Chlorobenzene	BRL	0.0055		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
Chloroethane	BRL	0.011		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
Chloroform	BRL	0.0055		mg/Kg-dry	209349	1	06/26/2015 20:27	CG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 30-Jun-15

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Lab ID: 1506R09-002

Client Sample ID: RO-2
Collection Date: 6/25/2015 2:42:00 PM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Chloromethane	BRL	0.011		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
cis-1,2-Dichloroethene	0.61	0.0055	E	mg/Kg-dry	209349	1	06/26/2015 20:27	CG
cis-1,3-Dichloropropene	BRL	0.0055		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
Cyclohexane	BRL	0.0055		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
Dibromochloromethane	BRL	0.0055		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
Dichlorodifluoromethane	BRL	0.011		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
Ethylbenzene	0.0063	0.0055		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
Freon-113	BRL	0.011		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
Isopropylbenzene	0.020	0.0055		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
m,p-Xylene	0.020	0.0055		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
Methyl acetate	BRL	0.0055		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
Methyl tert-butyl ether	BRL	0.0055		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
Methylcyclohexane	BRL	0.0055		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
Methylene chloride	0.033	0.022		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
o-Xylene	0.0083	0.0055		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
Styrene	BRL	0.0055		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
Tetrachloroethene	17	2.8		mg/Kg-dry	209366	500	06/29/2015 17:16	TH
Toluene	BRL	0.0055		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
trans-1,2-Dichloroethene	0.0085	0.0055		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
trans-1,3-Dichloropropene	BRL	0.0055		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
Trichloroethene	0.20	0.0055		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
Trichlorofluoromethane	BRL	0.0055		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
Vinyl chloride	BRL	0.011		mg/Kg-dry	209349	1	06/26/2015 20:27	CG
Surr: 4-Bromofluorobenzene	97	70-128		%REC	209349	1	06/26/2015 20:27	CG
Surr: 4-Bromofluorobenzene	98.5	70-128		%REC	209366	500	06/29/2015 17:16	TH
Surr: Dibromofluoromethane	114	78.2-128		%REC	209349	1	06/26/2015 20:27	CG
Surr: Dibromofluoromethane	96.2	78.2-128		%REC	209366	500	06/29/2015 17:16	TH
Surr: Toluene-d8	96	76.5-116		%REC	209349	1	06/26/2015 20:27	CG
Surr: Toluene-d8	101	76.5-116		%REC	209366	500	06/29/2015 17:16	TH
PERCENT MOISTURE D2216								
Percent Moisture	13.5	0		wt%	R295059	1	06/30/2015 11:00	PF

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 30-Jun-15

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Lab ID: 1506R09-003

Client Sample ID: RO-3
Collection Date: 6/25/2015 3:05:00 PM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILES, TCLP SW1311/8260B				(SW5030B)				
1,1-Dichloroethene	BRL	0.10		mg/L	209547	20	06/30/2015 07:54	AR
1,2-Dichloroethane	BRL	0.10		mg/L	209547	20	06/30/2015 07:54	AR
2-Butanone	BRL	0.20		mg/L	209547	20	06/30/2015 07:54	AR
Benzene	BRL	0.10		mg/L	209547	20	06/30/2015 07:54	AR
Carbon tetrachloride	BRL	0.10		mg/L	209547	20	06/30/2015 07:54	AR
Chlorobenzene	BRL	0.10		mg/L	209547	20	06/30/2015 07:54	AR
Chloroform	BRL	0.10		mg/L	209547	20	06/30/2015 07:54	AR
Tetrachloroethene	1.0	0.10	*	mg/L	209547	20	06/30/2015 07:54	AR
Trichloroethene	BRL	0.10		mg/L	209547	20	06/30/2015 07:54	AR
Vinyl chloride	BRL	0.040		mg/L	209547	20	06/30/2015 07:54	AR
Surr: 4-Bromofluorobenzene	85.3	68.7-127		%REC	209547	20	06/30/2015 07:54	AR
Surr: Dibromofluoromethane	101	77.4-121		%REC	209547	20	06/30/2015 07:54	AR
Surr: Toluene-d8	90.7	79.2-120		%REC	209547	20	06/30/2015 07:54	AR
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
1,1,1-Trichloroethane	BRL	0.0051		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
1,1,2,2-Tetrachloroethane	BRL	0.0051		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
1,1,2-Trichloroethane	BRL	0.0051		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
1,1-Dichloroethane	BRL	0.0051		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
1,1-Dichloroethene	BRL	0.0051		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
1,2,4-Trichlorobenzene	BRL	0.0051		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
1,2-Dibromo-3-chloropropane	BRL	0.0051		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
1,2-Dibromoethane	BRL	0.0051		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
1,2-Dichlorobenzene	0.011	0.0051		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
1,2-Dichloroethane	BRL	0.0051		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
1,2-Dichloropropane	BRL	0.0051		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
1,3-Dichlorobenzene	BRL	0.0051		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
1,4-Dichlorobenzene	BRL	0.0051		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
2-Butanone	BRL	0.051		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
2-Hexanone	BRL	0.010		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
4-Methyl-2-pentanone	BRL	0.010		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
Acetone	BRL	0.10		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
Benzene	BRL	0.0051		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
Bromodichloromethane	BRL	0.0051		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
Bromoform	BRL	0.0051		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
Bromomethane	BRL	0.0051		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
Carbon disulfide	BRL	0.010		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
Carbon tetrachloride	BRL	0.0051		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
Chlorobenzene	BRL	0.0051		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
Chloroethane	BRL	0.010		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
Chloroform	BRL	0.0051		mg/Kg-dry	209349	1	06/26/2015 22:03	CG

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Jun-15

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Lab ID: 1506R09-003

Client Sample ID: RO-3
Collection Date: 6/25/2015 3:05:00 PM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Chloromethane	BRL	0.010		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
cis-1,2-Dichloroethene	0.28	0.0051	E	mg/Kg-dry	209349	1	06/26/2015 22:03	CG
cis-1,3-Dichloropropene	BRL	0.0051		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
Cyclohexane	BRL	0.0051		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
Dibromochloromethane	BRL	0.0051		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
Dichlorodifluoromethane	BRL	0.010		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
Ethylbenzene	BRL	0.0051		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
Freon-113	BRL	0.010		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
Isopropylbenzene	BRL	0.0051		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
m,p-Xylene	BRL	0.0051		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
Methyl acetate	BRL	0.0051		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
Methyl tert-butyl ether	BRL	0.0051		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
Methylcyclohexane	BRL	0.0051		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
Methylene chloride	BRL	0.020		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
o-Xylene	BRL	0.0051		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
Styrene	BRL	0.0051		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
Tetrachloroethene	90	2.9		mg/Kg-dry	209366	500	06/29/2015 17:41	TH
Toluene	BRL	0.0051		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
trans-1,2-Dichloroethene	BRL	0.0051		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
trans-1,3-Dichloropropene	BRL	0.0051		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
Trichloroethene	0.20	0.0051		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
Trichlorofluoromethane	BRL	0.0051		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
Vinyl chloride	BRL	0.010		mg/Kg-dry	209349	1	06/26/2015 22:03	CG
Surr: 4-Bromofluorobenzene	92	70-128		%REC	209349	1	06/26/2015 22:03	CG
Surr: 4-Bromofluorobenzene	97.7	70-128		%REC	209366	500	06/29/2015 17:41	TH
Surr: Dibromofluoromethane	107	78.2-128		%REC	209349	1	06/26/2015 22:03	CG
Surr: Dibromofluoromethane	98.4	78.2-128		%REC	209366	500	06/29/2015 17:41	TH
Surr: Toluene-d8	93.7	76.5-116		%REC	209349	1	06/26/2015 22:03	CG
Surr: Toluene-d8	102	76.5-116		%REC	209366	500	06/29/2015 17:41	TH
PERCENT MOISTURE D2216								
Percent Moisture	14.4	0		wt%	R295059	1	06/30/2015 11:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Jun-15

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Lab ID: 1506R09-004

Client Sample ID: RO-5
Collection Date: 6/25/2015 3:33:00 PM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILES, TCLP SW1311/8260B				(SW5030B)				
1,1-Dichloroethene	BRL	0.10		mg/L	209547	20	06/30/2015 08:20	AR
1,2-Dichloroethane	BRL	0.10		mg/L	209547	20	06/30/2015 08:20	AR
2-Butanone	BRL	0.20		mg/L	209547	20	06/30/2015 08:20	AR
Benzene	BRL	0.10		mg/L	209547	20	06/30/2015 08:20	AR
Carbon tetrachloride	BRL	0.10		mg/L	209547	20	06/30/2015 08:20	AR
Chlorobenzene	BRL	0.10		mg/L	209547	20	06/30/2015 08:20	AR
Chloroform	BRL	0.10		mg/L	209547	20	06/30/2015 08:20	AR
Tetrachloroethene	0.23	0.10		mg/L	209547	20	06/30/2015 08:20	AR
Trichloroethene	BRL	0.10		mg/L	209547	20	06/30/2015 08:20	AR
Vinyl chloride	BRL	0.040		mg/L	209547	20	06/30/2015 08:20	AR
Surr: 4-Bromofluorobenzene	88.8	68.7-127		%REC	209547	20	06/30/2015 08:20	AR
Surr: Dibromofluoromethane	97.9	77.4-121		%REC	209547	20	06/30/2015 08:20	AR
Surr: Toluene-d8	89.2	79.2-120		%REC	209547	20	06/30/2015 08:20	AR
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
1,1,1-Trichloroethane	BRL	0.0053		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
1,1,2,2-Tetrachloroethane	BRL	0.0053		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
1,1,2-Trichloroethane	BRL	0.0053		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
1,1-Dichloroethane	BRL	0.0053		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
1,1-Dichloroethene	BRL	0.0053		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
1,2,4-Trichlorobenzene	BRL	0.0053		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
1,2-Dibromo-3-chloropropane	BRL	0.0053		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
1,2-Dibromoethane	BRL	0.0053		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
1,2-Dichlorobenzene	0.0071	0.0053		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
1,2-Dichloroethane	BRL	0.0053		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
1,2-Dichloropropane	BRL	0.0053		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
1,3-Dichlorobenzene	BRL	0.0053		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
1,4-Dichlorobenzene	BRL	0.0053		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
2-Butanone	BRL	0.053		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
2-Hexanone	BRL	0.011		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
4-Methyl-2-pentanone	BRL	0.011		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
Acetone	BRL	0.11		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
Benzene	BRL	0.0053		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
Bromodichloromethane	BRL	0.0053		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
Bromoform	BRL	0.0053		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
Bromomethane	BRL	0.0053		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
Carbon disulfide	BRL	0.011		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
Carbon tetrachloride	BRL	0.0053		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
Chlorobenzene	BRL	0.0053		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
Chloroethane	BRL	0.011		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
Chloroform	BRL	0.0053		mg/Kg-dry	209349	1	06/26/2015 22:27	CG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 30-Jun-15

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Lab ID: 1506R09-004

Client Sample ID: RO-5
Collection Date: 6/25/2015 3:33:00 PM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Chloromethane	BRL	0.011		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
cis-1,2-Dichloroethene	0.30	0.0053	E	mg/Kg-dry	209349	1	06/26/2015 22:27	CG
cis-1,3-Dichloropropene	BRL	0.0053		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
Cyclohexane	BRL	0.0053		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
Dibromochloromethane	BRL	0.0053		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
Dichlorodifluoromethane	BRL	0.011		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
Ethylbenzene	BRL	0.0053		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
Freon-113	BRL	0.011		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
Isopropylbenzene	BRL	0.0053		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
m,p-Xylene	0.0057	0.0053		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
Methyl acetate	BRL	0.0053		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
Methyl tert-butyl ether	BRL	0.0053		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
Methylcyclohexane	BRL	0.0053		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
Methylene chloride	BRL	0.021		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
o-Xylene	BRL	0.0053		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
Styrene	BRL	0.0053		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
Tetrachloroethene	11	3.0		mg/Kg-dry	209366	500	06/30/2015 13:35	TH
Toluene	BRL	0.0053		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
trans-1,2-Dichloroethene	BRL	0.0053		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
trans-1,3-Dichloropropene	BRL	0.0053		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
Trichloroethene	0.16	0.0053		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
Trichlorofluoromethane	BRL	0.0053		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
Vinyl chloride	BRL	0.011		mg/Kg-dry	209349	1	06/26/2015 22:27	CG
Surr: 4-Bromofluorobenzene	94.8	70-128		%REC	209349	1	06/26/2015 22:27	CG
Surr: 4-Bromofluorobenzene	98.3	70-128		%REC	209366	500	06/30/2015 13:35	TH
Surr: Dibromofluoromethane	114	78.2-128		%REC	209349	1	06/26/2015 22:27	CG
Surr: Dibromofluoromethane	106	78.2-128		%REC	209366	500	06/30/2015 13:35	TH
Surr: Toluene-d8	91.8	76.5-116		%REC	209349	1	06/26/2015 22:27	CG
Surr: Toluene-d8	102	76.5-116		%REC	209366	500	06/30/2015 13:35	TH
PERCENT MOISTURE D2216								
Percent Moisture	11.6	0		wt%	R295059	1	06/30/2015 11:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 30-Jun-15

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Lab ID: 1506R09-005

Client Sample ID: RO-4
Collection Date: 6/25/2015 4:01:00 PM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILES, TCLP SW1311/8260B		(SW5030B)						
1,1-Dichloroethene	BRL	0.10		mg/L	209547	20	06/30/2015 08:46	AR
1,2-Dichloroethane	BRL	0.10		mg/L	209547	20	06/30/2015 08:46	AR
2-Butanone	BRL	0.20		mg/L	209547	20	06/30/2015 08:46	AR
Benzene	BRL	0.10		mg/L	209547	20	06/30/2015 08:46	AR
Carbon tetrachloride	BRL	0.10		mg/L	209547	20	06/30/2015 08:46	AR
Chlorobenzene	BRL	0.10		mg/L	209547	20	06/30/2015 08:46	AR
Chloroform	BRL	0.10		mg/L	209547	20	06/30/2015 08:46	AR
Tetrachloroethene	13	2.5	*	mg/L	209547	500	06/30/2015 14:47	TH
Trichloroethene	BRL	0.10		mg/L	209547	20	06/30/2015 08:46	AR
Vinyl chloride	BRL	0.040		mg/L	209547	20	06/30/2015 08:46	AR
Surr: 4-Bromofluorobenzene	87.1	68.7-127		%REC	209547	20	06/30/2015 08:46	AR
Surr: 4-Bromofluorobenzene	98.3	68.7-127		%REC	209547	500	06/30/2015 14:47	TH
Surr: Dibromofluoromethane	97.4	77.4-121		%REC	209547	20	06/30/2015 08:46	AR
Surr: Dibromofluoromethane	102	77.4-121		%REC	209547	500	06/30/2015 14:47	TH
Surr: Toluene-d8	89.9	79.2-120		%REC	209547	20	06/30/2015 08:46	AR
Surr: Toluene-d8	101	79.2-120		%REC	209547	500	06/30/2015 14:47	TH
TCL VOLATILE ORGANICS SW8260B		(SW5035)						
1,1,1-Trichloroethane	BRL	0.0065		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
1,1,2,2-Tetrachloroethane	BRL	0.0065		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
1,1,2-Trichloroethane	BRL	0.0065		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
1,1-Dichloroethane	BRL	0.0065		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
1,1-Dichloroethene	BRL	0.0065		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
1,2,4-Trichlorobenzene	BRL	0.0065		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
1,2-Dibromo-3-chloropropane	BRL	0.0065		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
1,2-Dibromoethane	BRL	0.0065		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
1,2-Dichlorobenzene	0.037	0.0065		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
1,2-Dichloroethane	BRL	0.0065		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
1,2-Dichloropropane	BRL	0.0065		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
1,3-Dichlorobenzene	BRL	0.0065		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
1,4-Dichlorobenzene	BRL	0.0065		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
2-Butanone	BRL	0.065		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
2-Hexanone	BRL	0.013		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
4-Methyl-2-pentanone	BRL	0.013		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
Acetone	BRL	0.13		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
Benzene	BRL	0.0065		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
Bromodichloromethane	BRL	0.0065		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
Bromoform	BRL	0.0065		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
Bromomethane	BRL	0.0065		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
Carbon disulfide	BRL	0.013		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
Carbon tetrachloride	BRL	0.0065		mg/Kg-dry	209349	1	06/26/2015 20:51	CG

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Jun-15

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Lab ID: 1506R09-005

Client Sample ID: RO-4
Collection Date: 6/25/2015 4:01:00 PM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Chlorobenzene	BRL	0.0065		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
Chloroethane	BRL	0.013		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
Chloroform	BRL	0.0065		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
Chloromethane	BRL	0.013		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
cis-1,2-Dichloroethene	0.26	0.0065		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
cis-1,3-Dichloropropene	BRL	0.0065		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
Cyclohexane	BRL	0.0065		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
Dibromochloromethane	BRL	0.0065		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
Dichlorodifluoromethane	BRL	0.013		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
Ethylbenzene	0.0072	0.0065		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
Freon-113	BRL	0.013		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
Isopropylbenzene	0.012	0.0065		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
m,p-Xylene	0.015	0.0065		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
Methyl acetate	BRL	0.0065		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
Methyl tert-butyl ether	BRL	0.0065		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
Methylcyclohexane	BRL	0.0065		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
Methylene chloride	BRL	0.026		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
o-Xylene	0.0098	0.0065		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
Styrene	BRL	0.0065		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
Tetrachloroethene	340	27		mg/Kg-dry	209366	5000	06/30/2015 15:11	TH
Toluene	BRL	0.0065		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
trans-1,2-Dichloroethene	BRL	0.0065		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
trans-1,3-Dichloropropene	BRL	0.0065		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
Trichloroethene	0.26	0.0065	E	mg/Kg-dry	209349	1	06/26/2015 20:51	CG
Trichlorofluoromethane	BRL	0.0065		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
Vinyl chloride	BRL	0.013		mg/Kg-dry	209349	1	06/26/2015 20:51	CG
Surr: 4-Bromofluorobenzene	98.3	70-128		%REC	209349	1	06/26/2015 20:51	CG
Surr: 4-Bromofluorobenzene	96.1	70-128		%REC	209366	5000	06/30/2015 15:11	TH
Surr: Dibromofluoromethane	108	78.2-128		%REC	209349	1	06/26/2015 20:51	CG
Surr: Dibromofluoromethane	102	78.2-128		%REC	209366	5000	06/30/2015 15:11	TH
Surr: Toluene-d8	95.6	76.5-116		%REC	209349	1	06/26/2015 20:51	CG
Surr: Toluene-d8	102	76.5-116		%REC	209366	5000	06/30/2015 15:11	TH
PERCENT MOISTURE D2216								
Percent Moisture	17.8	0		wt%	R295059	1	06/30/2015 11:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 30-Jun-15

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Lab ID: 1506R09-006

Client Sample ID: RO-6
Collection Date: 6/25/2015 4:25:00 PM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILES, TCLP SW1311/8260B				(SW5030B)				
1,1-Dichloroethene	BRL	0.10		mg/L	209547	20	06/30/2015 15:59	TH
1,2-Dichloroethane	BRL	0.10		mg/L	209547	20	06/30/2015 15:59	TH
2-Butanone	BRL	0.20		mg/L	209547	20	06/30/2015 15:59	TH
Benzene	BRL	0.10		mg/L	209547	20	06/30/2015 15:59	TH
Carbon tetrachloride	BRL	0.10		mg/L	209547	20	06/30/2015 15:59	TH
Chlorobenzene	BRL	0.10		mg/L	209547	20	06/30/2015 15:59	TH
Chloroform	BRL	0.10		mg/L	209547	20	06/30/2015 15:59	TH
Tetrachloroethene	1.6	0.10	*	mg/L	209547	20	06/30/2015 15:59	TH
Trichloroethene	BRL	0.10		mg/L	209547	20	06/30/2015 15:59	TH
Vinyl chloride	BRL	0.040		mg/L	209547	20	06/30/2015 15:59	TH
Surr: 4-Bromofluorobenzene	101	68.7-127		%REC	209547	20	06/30/2015 15:59	TH
Surr: Dibromofluoromethane	104	77.4-121		%REC	209547	20	06/30/2015 15:59	TH
Surr: Toluene-d8	104	79.2-120		%REC	209547	20	06/30/2015 15:59	TH
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
1,1,1-Trichloroethane	BRL	0.0054		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
1,1,2,2-Tetrachloroethane	BRL	0.0054		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
1,1,2-Trichloroethane	BRL	0.0054		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
1,1-Dichloroethane	BRL	0.0054		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
1,1-Dichloroethene	BRL	0.0054		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
1,2,4-Trichlorobenzene	BRL	0.0054		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
1,2-Dibromo-3-chloropropane	BRL	0.0054		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
1,2-Dibromoethane	BRL	0.0054		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
1,2-Dichlorobenzene	0.14	0.0054		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
1,2-Dichloroethane	BRL	0.0054		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
1,2-Dichloropropane	BRL	0.0054		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
1,3-Dichlorobenzene	BRL	0.0054		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
1,4-Dichlorobenzene	0.016	0.0054		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
2-Butanone	BRL	0.054		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
2-Hexanone	BRL	0.011		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
4-Methyl-2-pentanone	BRL	0.011		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
Acetone	BRL	0.11		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
Benzene	BRL	0.0054		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
Bromodichloromethane	BRL	0.0054		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
Bromoform	BRL	0.0054		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
Bromomethane	BRL	0.0054		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
Carbon disulfide	BRL	0.011		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
Carbon tetrachloride	BRL	0.0054		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
Chlorobenzene	BRL	0.0054		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
Chloroethane	BRL	0.011		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
Chloroform	BRL	0.0054		mg/Kg-dry	209349	1	06/26/2015 21:15	CG

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Jun-15

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Lab ID: 1506R09-006

Client Sample ID: RO-6
Collection Date: 6/25/2015 4:25:00 PM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Chloromethane	BRL	0.011		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
cis-1,2-Dichloroethene	0.54	0.0054	E	mg/Kg-dry	209349	1	06/26/2015 21:15	CG
cis-1,3-Dichloropropene	BRL	0.0054		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
Cyclohexane	BRL	0.0054		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
Dibromochloromethane	BRL	0.0054		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
Dichlorodifluoromethane	BRL	0.011		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
Ethylbenzene	0.039	0.0054		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
Freon-113	BRL	0.011		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
Isopropylbenzene	0.17	0.0054		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
m,p-Xylene	0.14	0.0054		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
Methyl acetate	BRL	0.0054		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
Methyl tert-butyl ether	BRL	0.0054		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
Methylcyclohexane	BRL	0.0054		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
Methylene chloride	BRL	0.022		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
o-Xylene	0.063	0.0054		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
Styrene	BRL	0.0054		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
Tetrachloroethene	160	27		mg/Kg-dry	209349	5000	06/30/2015 15:36	TH
Toluene	BRL	0.0054		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
trans-1,2-Dichloroethene	BRL	0.0054		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
trans-1,3-Dichloropropene	BRL	0.0054		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
Trichloroethene	0.49	0.0054	E	mg/Kg-dry	209349	1	06/26/2015 21:15	CG
Trichlorofluoromethane	BRL	0.0054		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
Vinyl chloride	BRL	0.011		mg/Kg-dry	209349	1	06/26/2015 21:15	CG
Surr: 4-Bromofluorobenzene	95.7	70-128		%REC	209349	1	06/26/2015 21:15	CG
Surr: 4-Bromofluorobenzene	98.7	70-128		%REC	209349	5000	06/30/2015 15:36	TH
Surr: Dibromofluoromethane	107	78.2-128		%REC	209349	1	06/26/2015 21:15	CG
Surr: Dibromofluoromethane	105	78.2-128		%REC	209349	5000	06/30/2015 15:36	TH
Surr: Toluene-d8	98.2	76.5-116		%REC	209349	1	06/26/2015 21:15	CG
Surr: Toluene-d8	103	76.5-116		%REC	209349	5000	06/30/2015 15:36	TH
PERCENT MOISTURE D2216								
Percent Moisture	14.3	0		wt%	R295059	1	06/30/2015 11:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 30-Jun-15

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Lab ID: 1506R09-007

Client Sample ID: RO-7
Collection Date: 6/25/2015 4:49:00 PM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILES, TCLP SW1311/8260B				(SW5030B)				
1,1-Dichloroethene	BRL	0.10		mg/L	209547	20	06/30/2015 16:23	TH
1,2-Dichloroethane	BRL	0.10		mg/L	209547	20	06/30/2015 16:23	TH
2-Butanone	BRL	0.20		mg/L	209547	20	06/30/2015 16:23	TH
Benzene	BRL	0.10		mg/L	209547	20	06/30/2015 16:23	TH
Carbon tetrachloride	BRL	0.10		mg/L	209547	20	06/30/2015 16:23	TH
Chlorobenzene	BRL	0.10		mg/L	209547	20	06/30/2015 16:23	TH
Chloroform	BRL	0.10		mg/L	209547	20	06/30/2015 16:23	TH
Tetrachloroethene	3.2	0.10	*	mg/L	209547	20	06/30/2015 16:23	TH
Trichloroethene	BRL	0.10		mg/L	209547	20	06/30/2015 16:23	TH
Vinyl chloride	BRL	0.040		mg/L	209547	20	06/30/2015 16:23	TH
Surr: 4-Bromofluorobenzene	102	68.7-127		%REC	209547	20	06/30/2015 16:23	TH
Surr: Dibromofluoromethane	106	77.4-121		%REC	209547	20	06/30/2015 16:23	TH
Surr: Toluene-d8	105	79.2-120		%REC	209547	20	06/30/2015 16:23	TH
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
1,1,1-Trichloroethane	BRL	0.0064		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
1,1,2,2-Tetrachloroethane	BRL	0.0064		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
1,1,2-Trichloroethane	BRL	0.0064		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
1,1-Dichloroethane	BRL	0.0064		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
1,1-Dichloroethene	BRL	0.0064		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
1,2,4-Trichlorobenzene	BRL	0.0064		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
1,2-Dibromo-3-chloropropane	BRL	0.0064		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
1,2-Dibromoethane	BRL	0.0064		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
1,2-Dichlorobenzene	0.26	0.0064	E	mg/Kg-dry	209349	1	06/26/2015 21:39	CG
1,2-Dichloroethane	BRL	0.0064		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
1,2-Dichloropropane	BRL	0.0064		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
1,3-Dichlorobenzene	0.0096	0.0064		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
1,4-Dichlorobenzene	0.034	0.0064		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
2-Butanone	BRL	0.064		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
2-Hexanone	BRL	0.013		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
4-Methyl-2-pentanone	BRL	0.013		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
Acetone	BRL	0.13		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
Benzene	BRL	0.0064		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
Bromodichloromethane	BRL	0.0064		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
Bromoform	BRL	0.0064		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
Bromomethane	BRL	0.0064		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
Carbon disulfide	BRL	0.013		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
Carbon tetrachloride	BRL	0.0064		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
Chlorobenzene	BRL	0.0064		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
Chloroethane	BRL	0.013		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
Chloroform	BRL	0.0064		mg/Kg-dry	209349	1	06/26/2015 21:39	CG

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 30-Jun-15

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Lab ID: 1506R09-007

Client Sample ID: RO-7
Collection Date: 6/25/2015 4:49:00 PM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Chloromethane	BRL	0.013		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
cis-1,2-Dichloroethene	0.39	0.0064	E	mg/Kg-dry	209349	1	06/26/2015 21:39	CG
cis-1,3-Dichloropropene	BRL	0.0064		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
Cyclohexane	BRL	0.0064		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
Dibromochloromethane	BRL	0.0064		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
Dichlorodifluoromethane	BRL	0.013		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
Ethylbenzene	0.042	0.0064		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
Freon-113	BRL	0.013		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
Isopropylbenzene	0.18	0.0064		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
m,p-Xylene	0.11	0.0064		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
Methyl acetate	BRL	0.0064		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
Methyl tert-butyl ether	BRL	0.0064		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
Methylcyclohexane	BRL	0.0064		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
Methylene chloride	BRL	0.026		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
o-Xylene	0.076	0.0064		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
Styrene	BRL	0.0064		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
Tetrachloroethene	370	30		mg/Kg-dry	209366	5000	06/30/2015 13:04	TH
Toluene	BRL	0.0064		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
trans-1,2-Dichloroethene	BRL	0.0064		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
trans-1,3-Dichloropropene	BRL	0.0064		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
Trichloroethene	0.63	0.0064	E	mg/Kg-dry	209349	1	06/26/2015 21:39	CG
Trichlorofluoromethane	BRL	0.0064		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
Vinyl chloride	BRL	0.013		mg/Kg-dry	209349	1	06/26/2015 21:39	CG
Surr: 4-Bromofluorobenzene	94.1	70-128		%REC	209349	1	06/26/2015 21:39	CG
Surr: 4-Bromofluorobenzene	96.5	70-128		%REC	209366	5000	06/30/2015 13:04	TH
Surr: Dibromofluoromethane	108	78.2-128		%REC	209349	1	06/26/2015 21:39	CG
Surr: Dibromofluoromethane	100	78.2-128		%REC	209366	5000	06/30/2015 13:04	TH
Surr: Toluene-d8	95.5	76.5-116		%REC	209349	1	06/26/2015 21:39	CG
Surr: Toluene-d8	100	76.5-116		%REC	209366	5000	06/30/2015 13:04	TH
PERCENT MOISTURE D2216								
Percent Moisture	15.3	0		wt%	R295059	1	06/30/2015 11:00	PF

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Sailors Engineering

Work Order Number 1506R09

Checklist completed by Katie Forum 6/26/15
Signature Date

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? ($0^{\circ} \leq 6^{\circ}\text{C}$) * Yes ☒ No ☐

Cooler #1 3.4°C Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted ☒ Yes ☐ No ☐

Water - pH acceptable upon receipt? Yes ☐ No ☐ Not Applicable ☒

Adjusted? ☒ Checked by ☐

Sample Condition: Good ☒ Other(Explain) ☐

(For diffusive samples or AIHA lead) Is a known blank included? Yes ☐ No ☒

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Aes_server\\Sample Receipt\\My Documents\\COCs and pH Adjustment Sheet\\Sample_Cooler_Recipt_Checklist_Rev1.rtf

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Workorder: 1506R09

ANALYTICAL QC SUMMARY REPORT**BatchID: 209349**

Sample ID: MB-209349	Client ID:				Units: ug/Kg	Prep Date: 06/25/2015	Run No: 294810				
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 209349	Analysis Date: 06/26/2015	Seq No: 6283387				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0
1,1,2,2-Tetrachloroethane	BRL	5.0
1,1,2-Trichloroethane	BRL	5.0
1,1-Dichloroethane	BRL	5.0
1,1-Dichloroethene	BRL	5.0
1,2,4-Trichlorobenzene	BRL	5.0
1,2-Dibromo-3-chloropropane	BRL	5.0
1,2-Dibromoethane	BRL	5.0
1,2-Dichlorobenzene	BRL	5.0
1,2-Dichloroethane	BRL	5.0
1,2-Dichloropropane	BRL	5.0
1,3-Dichlorobenzene	BRL	5.0
1,4-Dichlorobenzene	BRL	5.0
2-Butanone	BRL	50
2-Hexanone	BRL	10
4-Methyl-2-pentanone	BRL	10
Acetone	BRL	100
Benzene	BRL	5.0
Bromodichloromethane	BRL	5.0
Bromoform	BRL	5.0
Bromomethane	BRL	5.0
Carbon disulfide	BRL	10
Carbon tetrachloride	BRL	5.0
Chlorobenzene	BRL	5.0
Chloroethane	BRL	10
Chloroform	BRL	5.0
Chloromethane	BRL	10

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

ANALYTICAL QC SUMMARY REPORT

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Workorder: 1506R09

BatchID: 209349

Sample ID: MB-209349		Client ID:		Units: ug/Kg		Prep Date: 06/25/2015		Run No: 294810			
SampleType: MBLK		TestCode: TCL VOLATILE ORGANICS SW8260B		BatchID: 209349		Analysis Date: 06/26/2015		Seq No: 6283387			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	20									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	50.73	0	50.00		101	70	128				
Surr: Dibromofluoromethane	59.39	0	50.00		119	78.2	128				
Surr: Toluene-d8	51.70	0	50.00		103	76.5	116				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Workorder: 1506R09

ANALYTICAL QC SUMMARY REPORT**BatchID: 209349**

Sample ID: LCS-209349	Client ID:					Units: ug/Kg	Prep Date: 06/25/2015	Run No: 294810			
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 209349	Analysis Date: 06/26/2015	Seq No: 6283384			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	63.55	5.0	50.00		127	69.9	145				
Benzene	55.88	5.0	50.00		112	72.3	130				
Chlorobenzene	58.33	5.0	50.00		117	69	130				
Toluene	59.09	5.0	50.00		118	71.1	130				
Trichloroethene	60.97	5.0	50.00		122	71.7	136				
Surr: 4-Bromofluorobenzene	51.88	0	50.00		104	70	128				
Surr: Dibromofluoromethane	57.57	0	50.00		115	78.2	128				
Surr: Toluene-d8	50.24	0	50.00		100	76.5	116				

Sample ID: 1506H83-007AMS	Client ID:					Units: ug/Kg-dry	Prep Date: 06/25/2015	Run No: 294810			
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 209349	Analysis Date: 06/26/2015	Seq No: 6284901			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	71.16	6.0	60.12		118	56.6	151				
Benzene	65.76	6.0	60.12		109	70.4	130				
Chlorobenzene	67.30	6.0	60.12		112	67.5	132				
Toluene	69.98	6.0	60.12		116	70.4	130				
Trichloroethene	71.45	6.0	60.12		119	70.1	137				
Surr: 4-Bromofluorobenzene	61.23	0	60.12		102	70	128				
Surr: Dibromofluoromethane	70.51	0	60.12		117	78.2	128				
Surr: Toluene-d8	62.47	0	60.12		104	76.5	116				

Sample ID: 1506H83-007AMSD	Client ID:					Units: ug/Kg-dry	Prep Date: 06/25/2015	Run No: 294810			
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 209349	Analysis Date: 06/26/2015	Seq No: 6284902			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	72.99	6.0	60.12		121	56.6	151	71.16	2.54	20.4	
Benzene	63.80	6.0	60.12		106	70.4	130	65.76	3.03	16.9	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Workorder: 1506R09

ANALYTICAL QC SUMMARY REPORT

BatchID: 209349

Sample ID: 1506H83-007AMSD	Client ID:					Units: ug/Kg-dry	Prep Date: 06/25/2015	Run No: 294810			
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 209349	Analysis Date: 06/26/2015	Seq No: 6284902			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	65.18	6.0	60.12		108	67.5	132	67.30	3.19	14.6	
Toluene	66.82	6.0	60.12		111	70.4	130	69.98	4.62	16.6	
Trichloroethene	68.79	6.0	60.12		114	70.1	137	71.45	3.79	17	
Surr: 4-Bromofluorobenzene	62.31	0	60.12		104	70	128	61.23	0	0	
Surr: Dibromofluoromethane	71.46	0	60.12		119	78.2	128	70.51	0	0	
Surr: Toluene-d8	61.84	0	60.12		103	76.5	116	62.47	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Workorder: 1506R09

ANALYTICAL QC SUMMARY REPORT

BatchID: 209366

Sample ID: MB-209366	Client ID:	Units: ug/Kg				Prep Date: 06/25/2015	Run No: 294760				
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 209366				Analysis Date: 06/25/2015	Seq No: 6282646				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	250
1,1,2,2-Tetrachloroethane	BRL	250
1,1,2-Trichloroethane	BRL	250
1,1-Dichloroethane	BRL	250
1,1-Dichloroethene	BRL	250
1,2,4-Trichlorobenzene	BRL	250
1,2-Dibromo-3-chloropropane	BRL	250
1,2-Dibromoethane	BRL	250
1,2-Dichlorobenzene	BRL	250
1,2-Dichloroethane	BRL	250
1,2-Dichloropropane	BRL	250
1,3-Dichlorobenzene	BRL	250
1,4-Dichlorobenzene	BRL	250
2-Butanone	BRL	2500
2-Hexanone	BRL	500
4-Methyl-2-pentanone	BRL	500
Acetone	BRL	5000
Benzene	BRL	250
Bromodichloromethane	BRL	250
Bromoform	BRL	250
Bromomethane	BRL	250
Carbon disulfide	BRL	500
Carbon tetrachloride	BRL	250
Chlorobenzene	BRL	250
Chloroethane	BRL	500
Chloroform	BRL	250
Chloromethane	BRL	500

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Workorder: 1506R09

ANALYTICAL QC SUMMARY REPORT

BatchID: 209366

Sample ID: MB-209366		Client ID:		Units: ug/Kg		Prep Date: 06/25/2015		Run No: 294760			
SampleType: MBLK		TestCode: TCL VOLATILE ORGANICS SW8260B		BatchID: 209366		Analysis Date: 06/25/2015		Seq No: 6282646			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	250									
cis-1,3-Dichloropropene	BRL	250									
Cyclohexane	BRL	250									
Dibromochloromethane	BRL	250									
Dichlorodifluoromethane	BRL	500									
Ethylbenzene	BRL	250									
Freon-113	BRL	500									
Isopropylbenzene	BRL	250									
m,p-Xylene	BRL	250									
Methyl acetate	BRL	250									
Methyl tert-butyl ether	BRL	250									
Methylcyclohexane	BRL	250									
Methylene chloride	BRL	1000									
o-Xylene	BRL	250									
Styrene	BRL	250									
Tetrachloroethene	BRL	250									
Toluene	BRL	250									
trans-1,2-Dichloroethene	BRL	250									
trans-1,3-Dichloropropene	BRL	250									
Trichloroethene	BRL	250									
Trichlorofluoromethane	BRL	250									
Vinyl chloride	BRL	500									
Surr: 4-Bromofluorobenzene	2238	0	2500		89.5	70	128				
Surr: Dibromofluoromethane	2160	0	2500		86.4	78.2	128				
Surr: Toluene-d8	2370	0	2500		94.8	76.5	116				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Workorder: 1506R09

ANALYTICAL QC SUMMARY REPORT**BatchID: 209366**

Sample ID: LCS-209366	Client ID:					Units: ug/Kg	Prep Date: 06/25/2015	Run No: 294760			
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 209366	Analysis Date: 06/25/2015	Seq No: 6282645			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	2654	250	2500		106	69.9	145				
Benzene	2431	250	2500		97.2	72.3	130				
Chlorobenzene	2396	250	2500		95.9	69	130				
Toluene	2467	250	2500		98.7	71.1	130				
Trichloroethene	2364	250	2500		94.6	71.7	136				
Surr: 4-Bromofluorobenzene	2256	0	2500		90.3	70	128				
Surr: Dibromofluoromethane	2136	0	2500		85.5	78.2	128				
Surr: Toluene-d8	2456	0	2500		98.2	76.5	116				

Sample ID: 1506M59-001AMS	Client ID:					Units: ug/Kg-dry	Prep Date: 06/25/2015	Run No: 294760			
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 209366	Analysis Date: 06/25/2015	Seq No: 6282585			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	1374	140	1384		99.2	56.6	151				
Benzene	1449	140	1384	138.4	94.6	70.4	130				
Chlorobenzene	1338	140	1384		96.7	67.5	132				
Toluene	1480	140	1384	64.51	102	70.4	130				
Trichloroethene	1371	140	1384		99.1	70.1	137				
Surr: 4-Bromofluorobenzene	1489	0	1384		108	70	128				
Surr: Dibromofluoromethane	1111	0	1384		80.3	78.2	128				
Surr: Toluene-d8	1437	0	1384		104	76.5	116				

Sample ID: 1506M59-001AMSD	Client ID:					Units: ug/Kg-dry	Prep Date: 06/25/2015	Run No: 294760			
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 209366	Analysis Date: 06/25/2015	Seq No: 6282586			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	1373	140	1384		99.2	56.6	151	1374	0.060	20.4	
Benzene	1412	140	1384	138.4	92.0	70.4	130	1449	2.59	16.9	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Workorder: 1506R09

ANALYTICAL QC SUMMARY REPORT

BatchID: 209366

Sample ID: 1506M59-001AMSD	Client ID:	Units: ug/Kg-dry				Prep Date: 06/25/2015	Run No: 294760				
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 209366				Analysis Date: 06/25/2015	Seq No: 6282586				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	1315	140	1384		95.0	67.5	132	1338	1.80	14.6	
Toluene	1452	140	1384	64.51	100	70.4	130	1480	1.96	16.6	
Trichloroethene	1328	140	1384		95.9	70.1	137	1371	3.24	17	
Surr: 4-Bromofluorobenzene	1404	0	1384		101	70	128	1489	0	0	
Surr: Dibromofluoromethane	1089	0	1384		78.6	78.2	128	1111	0	0	
Surr: Toluene-d8	1423	0	1384		103	76.5	116	1437	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Workorder: 1506R09

ANALYTICAL QC SUMMARY REPORT**BatchID: 209547**

Sample ID: MB-209547	Client ID:					Units: mg/L	Prep Date: 06/29/2015	Run No: 294957			
SampleType: MBLK	TestCode: VOLATILES, TCLP	SW1311/8260B				BatchID: 209547	Analysis Date: 06/29/2015	Seq No: 6289549			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	0.10									
1,2-Dichloroethane	BRL	0.10									
2-Butanone	BRL	0.20									
Benzene	BRL	0.10									
Carbon tetrachloride	BRL	0.10									
Chlorobenzene	BRL	0.10									
Chloroform	BRL	0.10									
Tetrachloroethene	BRL	0.10									
Trichloroethene	BRL	0.10									
Vinyl chloride	BRL	0.040									
Surr: 4-Bromofluorobenzene	0.9190	0	1.000		91.9	68.7	127				
Surr: Dibromofluoromethane	0.9460	0	1.000		94.6	77.4	121				
Surr: Toluene-d8	0.8956	0	1.000		89.6	79.2	120				

Sample ID: LCS-209547	Client ID:					Units: mg/L	Prep Date: 06/29/2015	Run No: 294957			
SampleType: LCS	TestCode: VOLATILES, TCLP SW1311/8260B					BatchID: 209547	Analysis Date: 06/29/2015	Seq No: 6289548			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	0.8120	0.10	1.000		81.2	56.5	137				
1,2-Dichloroethane	0.9554	0.10	1.000		95.5	64.2	137				
2-Butanone	1.638	0.20	2.000		81.9	50.2	144				
Benzene	0.9502	0.10	1.000		95.0	70.3	128				
Carbon tetrachloride	1.104	0.10	1.000		110	57.2	148				
Chlorobenzene	0.9480	0.10	1.000		94.8	71.6	122				
Chloroform	0.7862	0.10	1.000		78.6	67.9	130				
Tetrachloroethene	1.194	0.10	1.000		119	64.9	135				
Trichloroethene	1.047	0.10	1.000		105	69.8	133				
Vinyl chloride	0.7678	0.040	1.000		76.8	48.6	139				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Workorder: 1506R09

ANALYTICAL QC SUMMARY REPORT**BatchID: 209547**

Sample ID: LCS-209547	Client ID:					Units: mg/L	Prep Date: 06/29/2015	Run No: 294957			
SampleType: LCS	TestCode: VOLATILES, TCLP SW1311/8260B					BatchID: 209547	Analysis Date: 06/29/2015	Seq No: 6289548			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: 4-Bromofluorobenzene	1.074	0	1.000		107	68.7	127				
Surr: Dibromofluoromethane	1.003	0	1.000		100	77.4	121				
Surr: Toluene-d8	0.9400	0	1.000		94.0	79.2	120				

Sample ID: 1506R09-001BMS	Client ID: RO-1	Units: mg/L				Prep Date: 06/29/2015	Run No: 294957				
SampleType: MS	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 209547				Analysis Date: 06/30/2015	Seq No: 6289553				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	0.8342	0.10	1.000		83.4	60.5	144				
1,2-Dichloroethane	0.9466	0.10	1.000		94.7	66.2	133				
2-Butanone	1.842	0.20	2.000		92.1	47.7	148				
Benzene	0.9558	0.10	1.000		95.6	70.6	135				
Carbon tetrachloride	1.076	0.10	1.000		108	61.4	146				
Chlorobenzene	0.9782	0.10	1.000		97.8	71	126				
Chloroform	0.7862	0.10	1.000		78.6	64.2	138				
Tetrachloroethene	1.550	0.10	1.000	0.2964	125	66.6	138				
Trichloroethene	1.014	0.10	1.000		101	72.3	139				
Vinyl chloride	0.7952	0.040	1.000		79.5	50.2	147				
Surr: 4-Bromofluorobenzene	1.061	0	1.000		106	68.7	127				
Surr: Dibromofluoromethane	0.9856	0	1.000		98.6	77.4	121				
Surr: Toluene-d8	0.9734	0	1.000		97.3	79.2	120				

Sample ID: 1506R09-001BDUP	Client ID: RO-1					Units: mg/L	Prep Date: 06/29/2015	Run No: 294957			
SampleType: DUP	TestCode: VOLATILES, TCLP SW1311/8260B					BatchID: 209547	Analysis Date: 06/30/2015	Seq No: 6289552			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	0.10						0	0	30	
1,2-Dichloroethane	BRL	0.10						0	0	30	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Workorder: 1506R09

ANALYTICAL QC SUMMARY REPORT

BatchID: 209547

Sample ID: 1506R09-001BDUP	Client ID: RO-1	Units: mg/L				Prep Date: 06/29/2015	Run No: 294957				
SampleType: DUP	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 209547				Analysis Date: 06/30/2015	Seq No: 6289552				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	BRL	0.20						0	0	30	
Benzene	BRL	0.10						0	0	30	
Carbon tetrachloride	BRL	0.10						0	0	30	
Chlorobenzene	BRL	0.10						0	0	30	
Chloroform	BRL	0.10						0	0	30	
Tetrachloroethene	0.3324	0.10						0.2964	11.5	30	
Trichloroethene	BRL	0.10						0	0	30	
Vinyl chloride	BRL	0.040						0	0	30	
Surr: 4-Bromofluorobenzene	0.8778	0	1.000		87.8	68.7	127	0.8858	0	0	
Surr: Dibromofluoromethane	0.9694	0	1.000		96.9	77.4	121	1.017	0	0	
Surr: Toluene-d8	0.8968	0	1.000		89.7	79.2	120	0.9132	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

December 29, 2016

Michael Haller
Sailors Engineering Associates
1675 Spectrum Drive
Lawrenceville GA 30043

TEL: (770) 962-5922
FAX: (770) 962-7964

RE: Sandtown Rd.

Dear Michael Haller:

Order No: 1507C68

Analytical Environmental Services, Inc. received 3 samples on 7/15/2015 4:50:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- NELAC/Texas Certificate No. T104704509-16-6 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 03/01/16-02/28/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

Tyrel Heckendorf
Project Manager

Revision 12/29/2016



TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

Work Order: 1507068

Work Order

Date: 7/15/15 Page 1 of 1

[illegible]

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Client: Sailors Engineering Associates
Project: Sandtown Rd.
Lab ID: 1507C68

Case Narrative

Volatile Organic Compounds Analysis by Method 1311:

Tetrachloroethene value for the QC sample 1507C68-001AMS is "E" qualified indicating estimated value over linear calibration range due to the level of target analyte present in the unspiked sample.

Per Mike Short via phone on 12/29/2016, sample ID RO-5-1 on the chain of custody is in fact RO-4-1. Sample ID has been changed to RO-4-1 to reflect this update.

Analytical Environmental Services, Inc

Date: 20-Jul-15

Client: Sailors Engineering Associates
 Project Name: Sandtown Rd.
 Lab ID: 1507C68-001

Client Sample ID: RO-7-1
 Collection Date: 7/15/2015 3:07:00 PM
 Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILES, TCLP SW1311/8260B				(SW5030B)				
1,1-Dichloroethene	BRL	0.10		mg/L	210364	20	07/20/2015 11:43	TH
1,2-Dichloroethane	BRL	0.10		mg/L	210364	20	07/20/2015 11:43	TH
2-Butanone	BRL	0.20		mg/L	210364	20	07/20/2015 11:43	TH
Benzene	BRL	0.10		mg/L	210364	20	07/20/2015 11:43	TH
Carbon tetrachloride	BRL	0.10		mg/L	210364	20	07/20/2015 11:43	TH
Chlorobenzene	BRL	0.10		mg/L	210364	20	07/20/2015 11:43	TH
Chloroform	BRL	0.10		mg/L	210364	20	07/20/2015 11:43	TH
Tetrachloroethene	3.6	0.10	*	mg/L	210364	20	07/20/2015 11:43	TH
Trichloroethene	BRL	0.10		mg/L	210364	20	07/20/2015 11:43	TH
Vinyl chloride	BRL	0.040		mg/L	210364	20	07/20/2015 11:43	TH
Surr: 4-Bromofluorobenzene	94.6	68.7-127		%REC	210364	20	07/20/2015 11:43	TH
Surr: Dibromofluoromethane	109	77.4-121		%REC	210364	20	07/20/2015 11:43	TH
Surr: Toluene-d8	97.6	79.2-120		%REC	210364	20	07/20/2015 11:43	TH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 29-Dec-16

Client: Sailors Engineering Associates
 Project Name: Sandtown Rd.
 Lab ID: 1507C68-002

Client Sample ID: RO-4-1
 Collection Date: 7/15/2015 3:27:00 PM
 Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILES, TCLP SW1311/8260B				(SW5030B)				
1,1-Dichloroethene	BRL	0.10		mg/L	210364	20	07/20/2015 13:25	TH
1,2-Dichloroethane	BRL	0.10		mg/L	210364	20	07/20/2015 13:25	TH
2-Butanone	BRL	0.20		mg/L	210364	20	07/20/2015 13:25	TH
Benzene	BRL	0.10		mg/L	210364	20	07/20/2015 13:25	TH
Carbon tetrachloride	BRL	0.10		mg/L	210364	20	07/20/2015 13:25	TH
Chlorobenzene	BRL	0.10		mg/L	210364	20	07/20/2015 13:25	TH
Chloroform	BRL	0.10		mg/L	210364	20	07/20/2015 13:25	TH
Tetrachloroethene	2.4	0.10	*	mg/L	210364	20	07/20/2015 13:25	TH
Trichloroethene	BRL	0.10		mg/L	210364	20	07/20/2015 13:25	TH
Vinyl chloride	BRL	0.040		mg/L	210364	20	07/20/2015 13:25	TH
Surr: 4-Bromofluorobenzene	94.4	68.7-127		%REC	210364	20	07/20/2015 13:25	TH
Surr: Dibromofluoromethane	114	77.4-121		%REC	210364	20	07/20/2015 13:25	TH
Surr: Toluene-d8	95.9	79.2-120		%REC	210364	20	07/20/2015 13:25	TH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 20-Jul-15

Client: Sailors Engineering Associates
 Project Name: Sandtown Rd.
 Lab ID: 1507C68-003

Client Sample ID: RO-6-1
 Collection Date: 7/15/2015 3:45:00 PM
 Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILES, TCLP SW1311/8260B					(SW5030B)			
1,1-Dichloroethene	BRL	0.10		mg/L	210364	20	07/20/2015 13:49	TH
1,2-Dichloroethane	BRL	0.10		mg/L	210364	20	07/20/2015 13:49	TH
2-Butanone	BRL	0.20		mg/L	210364	20	07/20/2015 13:49	TH
Benzene	BRL	0.10		mg/L	210364	20	07/20/2015 13:49	TH
Carbon tetrachloride	BRL	0.10		mg/L	210364	20	07/20/2015 13:49	TH
Chlorobenzene	BRL	0.10		mg/L	210364	20	07/20/2015 13:49	TH
Chloroform	BRL	0.10		mg/L	210364	20	07/20/2015 13:49	TH
Tetrachloroethene	1.3	0.10	*	mg/L	210364	20	07/20/2015 13:49	TH
Trichloroethene	BRL	0.10		mg/L	210364	20	07/20/2015 13:49	TH
Vinyl chloride	BRL	0.040		mg/L	210364	20	07/20/2015 13:49	TH
Surr: 4-Bromofluorobenzene	96.7	68.7-127		%REC	210364	20	07/20/2015 13:49	TH
Surr: Dibromofluoromethane	109	77.4-121		%REC	210364	20	07/20/2015 13:49	TH
Surr: Toluene-d8	97.4	79.2-120		%REC	210364	20	07/20/2015 13:49	TH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Sailors Eng.

Work Order Number 1507C68

Checklist completed by Kate Forum 7/15/15
Signature Date

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? ($0^{\circ} \leq 6^{\circ}C$) * Yes ☒ No ☐

Cooler #1 3.4°C Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted ☒ Yes ☐ No ☐

Water - pH acceptable upon receipt? Yes ☐ No ☐ Not Applicable ☒

Sample Condition: Good ☒ Adjusted? ☐ Checked by ☐
Other(Explain) ☐

(For diffusive samples or AIHA lead) Is a known blank included? Yes ☐ No ☒

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Workorder: 1507C68

ANALYTICAL QC SUMMARY REPORT**BatchID: 210364**

Sample ID: MB-210364	Client ID:	Units: mg/L					Prep Date: 07/20/2015	Run No: 296197			
SampleType: MBLK	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 210364					Analysis Date: 07/20/2015	Seq No: 6317624			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	0.10									
1,2-Dichloroethane	BRL	0.10									
2-Butanone	BRL	0.20									
Benzene	BRL	0.10									
Carbon tetrachloride	BRL	0.10									
Chlorobenzene	BRL	0.10									
Chloroform	BRL	0.10									
Tetrachloroethene	BRL	0.10									
Trichloroethene	BRL	0.10									
Vinyl chloride	BRL	0.040									
Surr: 4-Bromofluorobenzene	0.9144	0	1.000		91.4	68.7	127				
Surr: Dibromofluoromethane	1.109	0	1.000		111	77.4	121				
Surr: Toluene-d8	0.9690	0	1.000		96.9	79.2	120				

Sample ID: LCS-210364	Client ID:	Units: mg/L				Prep Date: 07/20/2015	Run No: 296191				
SampleType: LCS	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 210364				Analysis Date: 07/20/2015	Seq No: 6317702				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	0.9266	0.10	1.000		92.7	56.5	137				
1,2-Dichloroethane	0.9962	0.10	1.000		99.6	64.2	137				
2-Butanone	2.297	0.20	2.000		115	50.2	144				
Benzene	0.9388	0.10	1.000		93.9	70.3	128				
Carbon tetrachloride	0.7910	0.10	1.000		79.1	57.2	148				
Chlorobenzene	0.9746	0.10	1.000		97.5	71.6	122				
Chloroform	1.032	0.10	1.000		103	67.9	130				
Tetrachloroethene	0.8550	0.10	1.000		85.5	64.9	135				
Trichloroethene	0.8280	0.10	1.000		82.8	69.8	133				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Workorder: 1507C68

ANALYTICAL QC SUMMARY REPORT**BatchID: 210364**

Sample ID: LCS-210364	Client ID:					Units: mg/L	Prep Date: 07/20/2015	Run No: 296191			
SampleType: LCS	TestCode: VOLATILES, TCLP SW1311/8260B					BatchID: 210364	Analysis Date: 07/20/2015	Seq No: 6317702			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride	0.9696	0.040	1.000		97.0	48.6	139				
Surr: 4-Bromofluorobenzene	1.003	0	1.000		100	68.7	127				
Surr: Dibromofluoromethane	1.018	0	1.000		102	77.4	121				
Surr: Toluene-d8	0.9598	0	1.000		96.0	79.2	120				

Sample ID: 1507C68-001AMS	Client ID: RO-7-1	Units: mg/L		Prep Date: 07/20/2015	Run No: 296197						
SampleType: MS	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 210364		Analysis Date: 07/20/2015	Seq No: 6317626						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	1.084	0.10	1.000		108	60.5	144				
1,2-Dichloroethane	1.216	0.10	1.000		122	66.2	133				
2-Butanone	3.546	0.20	2.000		177	47.7	148				S
Benzene	1.024	0.10	1.000		102	70.6	135				
Carbon tetrachloride	1.491	0.10	1.000		149	61.4	146				S
Chlorobenzene	1.206	0.10	1.000		121	71	126				
Chloroform	1.035	0.10	1.000		103	64.2	138				
Tetrachloroethene	4.941	0.10	1.000	3.596	135	66.6	138				E
Trichloroethene	1.129	0.10	1.000		113	72.3	139				
Vinyl chloride	0.9514	0.040	1.000		95.1	50.2	147				
Surr: 4-Bromofluorobenzene	1.004	0	1.000		100	68.7	127				
Surr: Dibromofluoromethane	1.055	0	1.000		105	77.4	121				
Surr: Toluene-d8	1.024	0	1.000		102	79.2	120				

Sample ID: 1507C68-001ADUP	Client ID: RO-7-1	Units: mg/L				Prep Date: 07/20/2015	Run No: 296197				
SampleType: DUP	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 210364				Analysis Date: 07/20/2015	Seq No: 6317627				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	0.10						0	0	30	
--------------------	-----	------	--	--	--	--	--	---	---	----	--

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Sailors Engineering Associates
Project Name: Sandtown Rd.
Workorder: 1507C68

ANALYTICAL QC SUMMARY REPORT

BatchID: 210364

Sample ID: 1507C68-001ADUP		Client ID: RO-7-1				Units: mg/L		Prep Date: 07/20/2015		Run No: 296197	
SampleType: DUP		TestCode: VOLATILES, TCLP SW1311/8260B				BatchID: 210364		Analysis Date: 07/20/2015		Seq No: 6317627	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	BRL	0.10						0	0	30	
2-Butanone	BRL	0.20						0	0	30	
Benzene	BRL	0.10						0	0	30	
Carbon tetrachloride	BRL	0.10						0	0	30	
Chlorobenzene	BRL	0.10						0	0	30	
Chloroform	BRL	0.10						0	0	30	
Tetrachloroethene	3.833	0.10						3.596	6.39	30	*
Trichloroethene	BRL	0.10						0	0	30	
Vinyl chloride	BRL	0.040						0	0	30	
Surr: 4-Bromofluorobenzene	0.9508	0	1.000		95.1	68.7	127	0.9464	0	0	
Surr: Dibromofluoromethane	1.092	0	1.000		109	77.4	121	1.094	0	0	
Surr: Toluene-d8	0.9884	0	1.000		98.8	79.2	120	0.9764	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

December 29, 2016

Michael Haller
Sailors Engineering Associates
1675 Spectrum Drive
Lawrenceville GA 30043

TEL: (770) 962-5922
FAX: (770) 962-7964

RE: Westside Cleaners

Dear Michael Haller:

Order No: 1511M17

Analytical Environmental Services, Inc. received 4 samples on 11/23/2015 4:19:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- NELAC/Texas Certificate No. T104704509-16-6 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 03/01/16-02/28/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

Tyrel Heckendorf
Project Manager

Revision 12/29/2016



AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

1511M17 Work Order: 154M14

Date: 11/25/15 Page 1 of 1 MS 1123115

COMPANY: <i>Sellers Engineering</i>		ADDRESS: <i>1575 Spectrum Dr. Lawrenceville Ga.</i>		ANALYSIS REQUESTED												Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers	
PHONE: <i>770 962 5922</i>		FAX:		PRESERVATION (See codes)															
SAMPLED BY: <i>B. Ridd</i>		SIGNATURE: <i>[Signature]</i>																	
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)													
		DATE	TIME																
1	R-03	11/23	1:45																
2	R-07	11/23	1:55																
3	R-05	11/23	2:35																
4	R-06	11/23	2:45																
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			

RELINQUISHED BY		DATE/TIME		RECEIVED BY		DATE/TIME		PROJECT INFORMATION				RECEIPT	
1: <i>[Signature]</i>		11/23		1: <i>Nadia Cejeda</i>		11/23/15		PROJECT NAME: <i>West side cleanup</i>				Total # of Containers <i>4</i>	
2: <i>Berry Ridd</i>		4/19		2: <i>[Signature]</i>		4:19 PM		PROJECT #:				☒ Turnaround Time Request ☐ Standard 5 Business Days ☐ 2 Business Day Rush ☐ Next Business Day Rush ☐ Same Day Rush (auth req.) ☐ Other	
3:				3:				SITE ADDRESS: <i>700 Sandtown Marietta Ga</i>					
SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD OUT / / VIA: IN / / VIA: ☒ CLIENT FedEx UPS MAIL COURIER GREYHOUND OTHER				SEND REPORT TO: <i>Mike Haller</i>				STATE PROGRAM (if any):	
								INVOICE TO: (IF DIFFERENT FROM ABOVE)				B-mail? Y / N; Fax? Y / N	
								QUOTE #:				PO#:	
DATA PACKAGE: I II III IV													

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.
 SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
 PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/A+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Client: Sailors Engineering Associates**Project:** Westside Cleaners**Lab ID:** 1511M17**Case Narrative**

Per Mike Short via phone on 12/29/2016, sample ID R-05 on the chain of custody is in fact R-04. Sample ID has been changed to R-04 to reflect this update.

Analytical Environmental Services, Inc
Date: 2-Dec-15

Client:	Sailors Engineering Associates	Client Sample ID:	R-03
Project Name:	Westside Cleaners	Collection Date:	11/23/2015 1:45:00 PM
Lab ID:	1511M17-001	Matrix:	Solid

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILES, TCLP SW1311/8260B					(SW5030B)			
1,1-Dichloroethene	BRL	0.10		mg/L	216556	20	11/30/2015 17:41	TH
1,2-Dichloroethane	BRL	0.10		mg/L	216556	20	11/30/2015 17:41	TH
2-Butanone	BRL	0.20		mg/L	216556	20	11/30/2015 17:41	TH
Benzene	BRL	0.10		mg/L	216556	20	11/30/2015 17:41	TH
Carbon tetrachloride	BRL	0.10		mg/L	216556	20	11/30/2015 17:41	TH
Chlorobenzene	BRL	0.10		mg/L	216556	20	11/30/2015 17:41	TH
Chloroform	BRL	0.10		mg/L	216556	20	11/30/2015 17:41	TH
Tetrachloroethene	0.11	0.10		mg/L	216556	20	11/30/2015 17:41	TH
Trichloroethene	BRL	0.10		mg/L	216556	20	11/30/2015 17:41	TH
Vinyl chloride	BRL	0.040		mg/L	216556	20	11/30/2015 17:41	TH
Surr: 4-Bromofluorobenzene	78.1	68.7-127		%REC	216556	20	11/30/2015 17:41	TH
Surr: Dibromofluoromethane	109	77.4-121		%REC	216556	20	11/30/2015 17:41	TH
Surr: Toluene-d8	95.3	79.2-120		%REC	216556	20	11/30/2015 17:41	TH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 2-Dec-15

Client: Sailors Engineering Associates
Project Name: Westside Cleaners
Lab ID: 1511M17-002

Client Sample ID: R-07
Collection Date: 11/23/2015 1:55:00 PM
Matrix: Solid

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILES, TCLP SW1311/8260B				(SW5030B)				
1,1-Dichloroethene	BRL	0.10		mg/L	216556	20	11/30/2015 18:11	TH
1,2-Dichloroethane	BRL	0.10		mg/L	216556	20	11/30/2015 18:11	TH
2-Butanone	BRL	0.20		mg/L	216556	20	11/30/2015 18:11	TH
Benzene	BRL	0.10		mg/L	216556	20	11/30/2015 18:11	TH
Carbon tetrachloride	BRL	0.10		mg/L	216556	20	11/30/2015 18:11	TH
Chlorobenzene	BRL	0.10		mg/L	216556	20	11/30/2015 18:11	TH
Chloroform	BRL	0.10		mg/L	216556	20	11/30/2015 18:11	TH
Tetrachloroethene	0.39	0.10		mg/L	216556	20	11/30/2015 18:11	TH
Trichloroethene	BRL	0.10		mg/L	216556	20	11/30/2015 18:11	TH
Vinyl chloride	BRL	0.040		mg/L	216556	20	11/30/2015 18:11	TH
Surr: 4-Bromofluorobenzene	76.8	68.7-127		%REC	216556	20	11/30/2015 18:11	TH
Surr: Dibromofluoromethane	110	77.4-121		%REC	216556	20	11/30/2015 18:11	TH
Surr: Toluene-d8	95.6	79.2-120		%REC	216556	20	11/30/2015 18:11	TH

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 29-Dec-16

Client: Sailors Engineering Associates
Project Name: Westside Cleaners
Lab ID: 1511M17-003

Client Sample ID: R-04
Collection Date: 11/23/2015 2:35:00 PM
Matrix: Solid

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILES, TCLP SW1311/8260B				(SW5030B)				
1,1-Dichloroethene	BRL	0.10		mg/L	216556	20	11/30/2015 18:41	TH
1,2-Dichloroethane	BRL	0.10		mg/L	216556	20	11/30/2015 18:41	TH
2-Butanone	BRL	0.20		mg/L	216556	20	11/30/2015 18:41	TH
Benzene	BRL	0.10		mg/L	216556	20	11/30/2015 18:41	TH
Carbon tetrachloride	BRL	0.10		mg/L	216556	20	11/30/2015 18:41	TH
Chlorobenzene	BRL	0.10		mg/L	216556	20	11/30/2015 18:41	TH
Chloroform	BRL	0.10		mg/L	216556	20	11/30/2015 18:41	TH
Tetrachloroethene	BRL	0.10		mg/L	216556	20	11/30/2015 18:41	TH
Trichloroethene	BRL	0.10		mg/L	216556	20	11/30/2015 18:41	TH
Vinyl chloride	BRL	0.040		mg/L	216556	20	11/30/2015 18:41	TH
Surr: 4-Bromofluorobenzene	78.5	68.7-127		%REC	216556	20	11/30/2015 18:41	TH
Surr: Dibromofluoromethane	108	77.4-121		%REC	216556	20	11/30/2015 18:41	TH
Surr: Toluene-d8	94.7	79.2-120		%REC	216556	20	11/30/2015 18:41	TH

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 2-Dec-15

Client: Sailors Engineering Associates
 Project Name: Westside Cleaners
 Lab ID: 1511M17-004

Client Sample ID: R-06
 Collection Date: 11/23/2015 2:15:00 PM
 Matrix: Solid

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILES, TCLP SW1311/8260B					(SW5030B)			
1,1-Dichloroethene	BRL	0.10		mg/L	216556	20	11/30/2015 19:11	TH
1,2-Dichloroethane	BRL	0.10		mg/L	216556	20	11/30/2015 19:11	TH
2-Butanone	BRL	0.20		mg/L	216556	20	11/30/2015 19:11	TH
Benzene	BRL	0.10		mg/L	216556	20	11/30/2015 19:11	TH
Carbon tetrachloride	BRL	0.10		mg/L	216556	20	11/30/2015 19:11	TH
Chlorobenzene	BRL	0.10		mg/L	216556	20	11/30/2015 19:11	TH
Chloroform	BRL	0.10		mg/L	216556	20	11/30/2015 19:11	TH
Tetrachloroethene	0.26	0.10		mg/L	216556	20	11/30/2015 19:11	TH
Trichloroethene	BRL	0.10		mg/L	216556	20	11/30/2015 19:11	TH
Vinyl chloride	BRL	0.040		mg/L	216556	20	11/30/2015 19:11	TH
Surr: 4-Bromofluorobenzene	80.1	68.7-127		%REC	216556	20	11/30/2015 19:11	TH
Surr: Dibromofluoromethane	110	77.4-121		%REC	216556	20	11/30/2015 19:11	TH
Surr: Toluene-d8	98.2	79.2-120		%REC	216556	20	11/30/2015 19:11	TH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client SEA

Work Order Number 1511M17

Checklist completed by Majors 11/23/15
Signature Date

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? ($4^{\circ}\text{C} \pm 2$)* Yes ☒ No ☐

Cooler #1 3.10 Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted ☒ Yes ☐ No ☐

Water - pH acceptable upon receipt? Yes ☐ No ☐ Not Applicable ☒

Adjusted? ☐ Checked by ☐

Sample Condition: Good ☒ Other(Explain) ☐

(For diffusive samples or AIHA lead) Is a known blank included? Yes ☐ No ☒

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

Appendix 8: Potential Receptor Survey



SAILORS ENGINEERING ASSOCIATES, INC.

1675 SPECTRUM DRIVE • LAWRENCEVILLE, GEORGIA 30043 • TEL (770) 962-5922 • FAX 962-7964

March 10, 2016

YHN Properties, LLC
c/o Mr. Scott Kim
TBRE Real Estate Services
3296 Summit Ridge Pkwy, Suite 420
Duluth, GA 30096

RE: Potential Receptor and Water Usage Survey
Westside Cleaners
700 Sandtown Road SW
Marietta, Cobb County, Georgia
HSI #10927
SEA Job # 152-018

Gentlemen:

Sailors Engineering Associates, Inc. (SEA) has conducted a survey of potential receptors for the property referenced above and is pleased to submit this report of our findings.

Residential, commercial and industrial customers within the unincorporated area of Marietta are supplied water by the Cobb County Water System (CCWS). The CCWS purchases water from the Cobb County-Marietta Water Authority (CCMWA). The CCMWA has two surface water sources, the Wyckoff Treatment Division supplied from Lake Allatoona and the Quarles Treatment Division supplied from the Chattahoochee River.

To identify potential drinking water receptors within a three-mile radius of the subject property, SEA conducted a water usage survey of the surrounding area. Our survey included a search of the United States Geological Survey (USGS) water well database, a search of the 1999 Georgia Environmental Protection Division Hazardous Site Response Act (HSRA) drinking water sources database, a search of HSRA notifications in the vicinity, SEA's private database, a search of Cobb County GIS and tax records, interviews with knowledgeable personnel at facilities and sites identified in the databases, and a three mile windshield reconnaissance of the surrounding area. A map of the subject area with the results of this potential receptor and water usage survey is provided as an attachment to this letter.

Our database search identified listings for drinking water wells within a three-mile radius of the subject property. SEA conducted a search of the published data noted above and plotted the results on our Well Survey Plan that is included as an attachment to this letter. Our Well Survey Plan was used as a basis to conduct our windshield survey. Our search of the USGS and Georgia

EPD databases indicated three wells within a one-mile radius of the subject property. Several additional commercial wells or wells identified as abandoned/unused in the published data were listed within the respective two-mile and three-mile radii of the subject property (see Well Survey Plan).

In addition to our review of the USGS and EPD databases, SEA reviewed Cobb County property records for properties that were located in more rural areas and could potentially rely on a water well for their primary source of drinking water. For those residences identified during our windshield survey where we could not observe an obvious water meter, SEA contacted either Cobb County to verify that the corresponding address had an active municipal water account or attempted to contact the home owner in person.

The subject property has previously submitted a HSRA release notification to the Georgia Department of Natural Resources Hazardous Sites Response Program. SEA reviewed files pertaining to the previous release notification that included well survey information. In August 2013, EPD personnel confirmed the presence of an operating drinking water well located at 1505 Cheatham Hill Road, approximately 2.5 miles southwest of the subject property. The well (Kersey Well) was used for potable water according to the property owner, Ms. Sherry Kersey. SEA contacted the Cobb County Water System and verified that the property does not have an active water account. Ms. Kersey also confirmed the presence of an unused well (Kirky Well) at the adjacent property at 1511 Cheatham Hill Road which is now connected to public water. Two additional wells were identified approximately 2.5 miles northwest of the subject property at 110 Burnt Hickory Road. These wells were confirmed to be unused by the property owner, Mr. William Tate Anderson.

On March 8, 2016, Mr. Joseph Kinard, Staff Geologist, conducted a windshield reconnaissance of the area within a three-mile radius of the subject property. Six properties were identified during our windshield reconnaissance that was suspected to use water wells. The property located at 139 Hill Street has a well that is no longer in use and the current resident is connected to municipal water. The property located at 510 Powder Springs Street belongs to City Club golf course has a well. The golf course uses the well to fill several ponds for irrigation during dry periods. The wells identified as SCT-1 and Rudder Spring are USGS observation wells located on Kennesaw State University property and Vine Atlanta Church property, respectively. A suspected well house was located on a vacant property at the corner of Kings Court and Atlanta Road. The property is undeveloped and the well is not in use.

An additional active drinking water well (Goodman Well) was identified within a three-mile radius of the subject property. The property with the active well, located at 324 St. Mary's Lane NW approximately 2 miles north of the subject property, is not connected to municipal water and is up gradient from the subject property.

Several industrial wells that are no longer in use (Lockheed Corp.) were identified between 2 and 3 miles east/southeast of the subject property. Several private wells that are either abandoned or are no longer in use were also identified. No active drinking water wells were identified within a one-mile radius of the subject property based on our research and windshield survey. Three

properties were identified within 3 miles of the subject property that use a well for irrigation purposes. These properties have an active municipal water account for household water use.

In the general area of the subject property, the nearest surface body of water is an unnamed tributary to Olley Creek located approximately 320 feet southwest of the site. The tributary runs behind several residential neighborhoods and flows under a bridge on Booth Road before converging with Olley Creek close to Fair Oaks Park. Based on our review of available topographic maps of the area and monitoring well data, the apparent ground water flow direction at the subject property is to the southwest.

As part of our survey, the nearest resident individual was located with regard to the subject property. For the purposes of our survey, a resident individual is defined as a home, school, playground, daycare or nursing home. The nearest resident individual was identified as an apartment building in Springs Landing Apartments. The residence is located approximately 400 feet southwest of the subject property.

We have included a Well Survey Plan that shows the location of the wells identified as part of our investigation. Several commercial wells were identified within 3 miles of the subject property as well as private wells that are either used for irrigation or are no longer in use. Two active drinking water wells, the Kersey Well and the Goodman Well, were identified within a three-mile radius of the subject property based on our research and windshield survey.

If we can be of further service to you on this project, please contact us at your convenience.

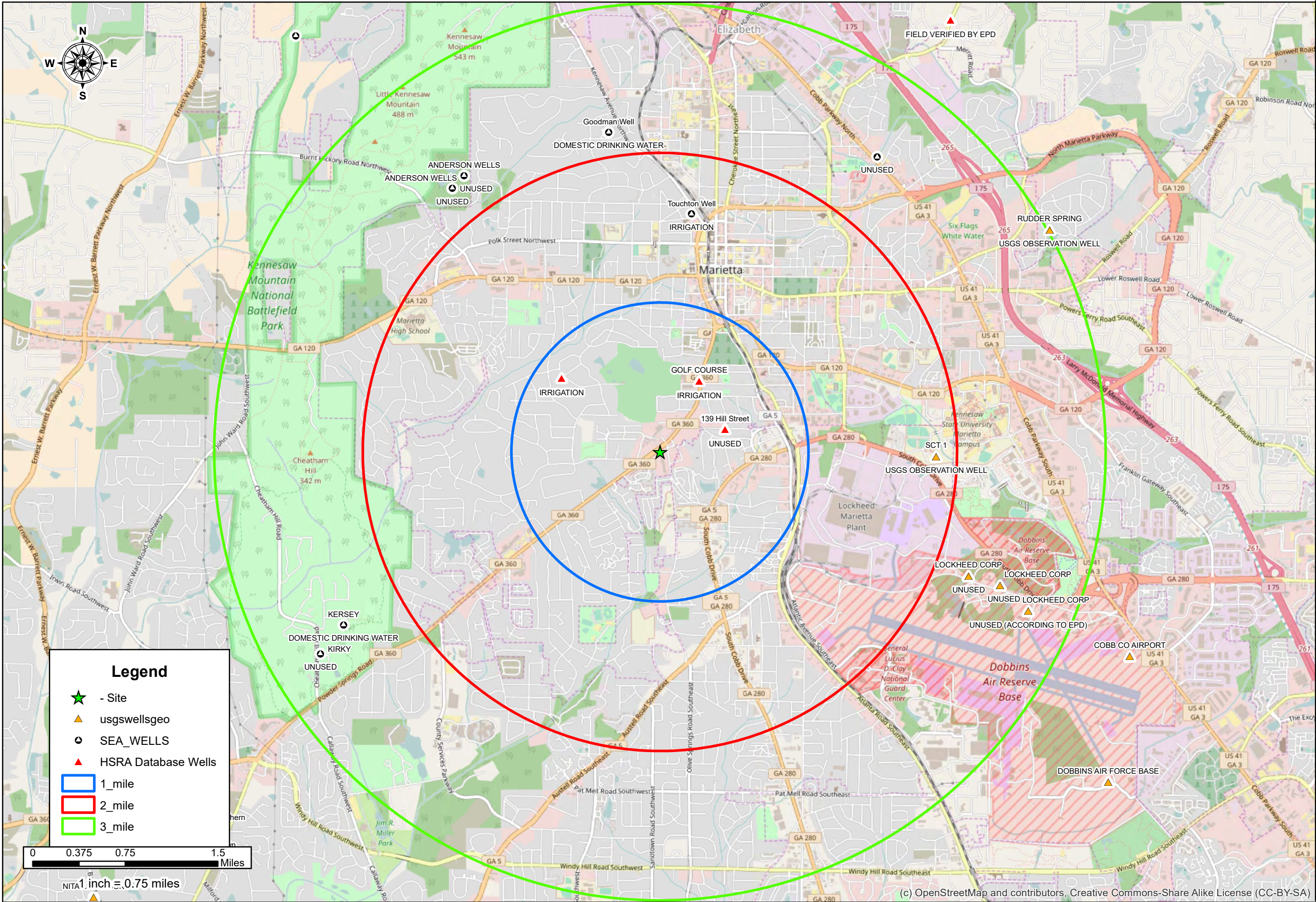


Respectfully submitted,

SAILORS ENGINEERING ASSOCIATES, INC.

Joseph M. Kinard, IV

Michael J. Haller, P.G.



(c) OpenStreetMap and contributors, Creative Commons-Share Alike License (CC-BY-SA)

700 SANDTOWN ROAD

700 Sandtown Road
Marietta, Cobb County, Georgia

Job No. 152-018

12/29/2016

WELL SURVEY

SEA
SAILORS
ENGINEERING
ASSOCIATES, INC.
ENVIRONMENTAL/GEOTECHNICAL
1675 SPECTRUM DRIVE
LAWRENCEVILLE, GEORGIA 30043
(770) 962-5922 FAX 962-7964

Appendix 9: Risk Reduction Standards Evaluation

RRS Table 1
Westside Cleaners
700 Sandtown Road, Marietta, Georgia
HSI #10927
SEA Job#152-018

Factors Summary

													RfDi=RfCi*20/70		Sfi=IUR*70/20*1000					
		MW	H'	H=H'/41	Density (g/cm ³)	Di,a	Di,w	Koc	Kd	S	VOC	VF	Inhalation RfC (mg/m ³)	Inhalation RfD - Chronic (mg/kg-day)	Oral RfD - Chronic (mg/kg-day)	IUR (ug/m ³) ⁻¹	Inhalation Slope Factor [1/(mg/kg-day)]	Oral Slope Factor [1/(mg/kg-day)]	Carcinogen Class	Target Cancer Risk
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.50E-02	3.66E-04	1.5953	4.89E-02	9.29E-06	9.49E+01		2.83E+03	1	1.94E+04		0.00E+00	2.00E-02	5.80E-05	2.03E-01	2.00E-01	C	1.00E-04
79-00-5	1,1,2-Trichloroethane	133.41	3.37E-02	8.22E-04	1.4397	6.69E-02	1.00E-05	6.07E+01		4.59E+03	1	8.83E+03	2.00E-04	5.71E-05	4.00E-03	1.60E-05	5.60E-02	5.70E-02	C	1.00E-04
75-35-4	1,1-Dichloroethene	96.94	1.07E+00	2.60E-02	1.213	8.63E-02	1.10E-05	3.18E+01		2.42E+03	1	8.66E+02	2.00E-01	5.71E-02	5.00E-02		0.00E+00			NA
95-50-1	1,2-Dichlorobenzene	147.00	7.85E-02	1.91E-03	1.3059	5.62E-02	8.92E-06	3.83E+02		1.56E+02	1	1.59E+04	2.00E-01	5.71E-02	9.00E-02		0.00E+00			NA
107-06-2	1,2-Dichloroethane	98.96	4.82E-02	1.18E-03	1.2454	8.57E-02	1.10E-05	3.96E+01		8.60E+03	1	5.25E+03	7.00E-03	2.00E-03	6.00E-03	2.60E-05	9.10E-02	9.10E-02	B	1.00E-05
541-73-1	1,3-Dichlorobenzene	147	7.79E-02	1.90E-03		6.92E-02		6.20E+02		1.34E+02	1	1.83E+04		0.00E+00			0.00E+00			NA
106-46-7	1,4-Dichlorobenzene	147.00	9.85E-02	2.40E-03	1.2475	5.50E-02	8.68E-06	3.75E+02		8.13E+01	1	1.42E+04	8.00E-01	2.29E-01	7.00E-02	1.10E-05	3.85E-02	5.40E-03	C	1.00E-04
67-64-1	Acetone	58.08	1.40E-03	3.41E-05	0.7845	1.10E-01	1.15E-05	2.36E+00		1.00E+06	1	6.66E+03	3.10E+01	8.86E+00	9.00E-01		0.00E+00			NA
67-66-3	Chloroform	119.38	1.50E-01	3.66E-03	1.4788	7.70E-02	1.10E-05	3.18E+01		7.95E+03	1	2.77E+03	9.80E-02	2.80E-02	1.00E-02	2.30E-05	8.05E-02	3.10E-02	B	1.00E-05
156-59-2	cis-1,2-Dichloroethylene	96.94	1.67E-01	4.07E-03	1.2837	8.84E-02	1.13E-05	3.96E+01		6.41E+03	1	2.74E+03		0.00E+00	2.00E-03		0.00E+00			NA
100-41-4	Ethylbenzene	106.17	3.22E-01	7.86E-03	0.8626	6.85E-02	8.46E-06	4.46E+02		1.69E+02	1	7.64E+03	1.00E+00	2.86E-01	1.00E-01	2.50E-06	8.75E-03	1.10E-02	C	1.00E-04
98-82-8	Isopropylbenzene	120.20	4.70E-01	1.15E-02	0.864	6.03E-02	7.86E-06	6.98E+02		6.13E+01	1	8.43E+03	4.00E-01	1.14E-01	1.00E-01		0.00E+00			NA
75-09-2	Methylene chloride	84.93	1.33E-01	3.24E-03	1.3266	9.99E-02	1.25E-05	2.17E+01		1.30E+04	1	2.12E+03	6.00E-01	1.71E-01	6.00E-03	1.00E-08	3.50E-05	2.00E-03	B	1.00E-05
127-18-4	Tetrachloroethylene	165.83	7.24E-01	1.76E-02	1.623	5.05E-02	9.46E-06	9.49E+01		2.06E+02	1	2.65E+03	4.00E-02	1.14E-02	6.00E-03	2.60E-07	9.10E-04	2.10E-03	B	1.00E-05
108-88-3	Toluene	92.14	2.71E-01	6.62E-03	0.8623	7.78E-02	9.20E-06	2.34E+02		5.26E+02	1	5.64E+03	5.00E+00	1.43E+00	8.00E-02		0.00E+00			NA
156-60-5	trans-1,2-Dichloroethene	96.944	3.83E-01	9.35E-03	1.26E+00	8.76E-02	1.12E-05	3.96E+01		4.52E+03	1	1.77E+03		0.00E+00	2.00E-02		0.00E+00			NA
79-01-6	Trichloroethylene	131.39	4.03E-01	9.82E-03	1.4642	6.87E-02	1.02E-05	6.07E+01		1.28E+03	1	2.45E+03	2.00E-03	5.71E-04	5.00E-04	4.10E-06	1.44E-02	4.60E-02	B	1.00E-05
75-01-4	Vinyl chloride	62.499	1.14E+00	2.77E-02	9.11E-01	1.07E-01	1.20E-05	2.17E+01		8.80E+03	1	5.82E+02	1.00E-01	2.86E-02	3.00E-03	4.40E-06	1.54E-02	7.20E-01	A	1.00E-05
1330-20-7	Xylene	106.17	2.71E-01	6.61E-03	0.864	6.85E-02	8.46E-06	3.83E+02		1.06E+02	1	7.72E+03	1.00E-01	2.86E-02	2.00E-01		0.00E+00			NA

RRS Table 2
Westside Cleaners
700 Sandtown Road, Marietta, Georgia
HSI #10927
SEA Job#152-018

Risk Reduction Standards Evaluation - Type 1

CAS	Chemical	NC (mg/Kg)	Type1/3 GW	Type 1/3 GWx100 App3 Table 2	Max NC/ GWx100	Carcinogenic Equ 6	Non- Carcinogenic Equ 7	Default Type 1 RRS
79-34-5	1,1,2,2-Tetrachloroethane	0.13	NL	NA	0.13	94.6805	11276.0334	0.130
79-00-5	1,1,2-Trichloroethane	0.5	0.005	0.5	0.5	167.5584	2.4525	0.500
75-35-4	1,1-Dichloroethene	0.36	0.007	0.7	0.7	NA	238.9897	0.700
95-50-1	1,2-Dichlorobenzene	25	0.6	60	60	NA	4101.3277	60.000
107-06-2	1,2-Dichloroethane	0.02	0.005	0.5	0.5	6.2948	50.3876	0.500
541-73-1	1,3-Dichlorobenzene	2.22	0.6	60	60	NA	NA	60.000
106-46-7	1,4-Dichlorobenzene	0.13	0.075	7.5	7.5	411.7125	11661.3970	7.500
67-64-1	Acetone	2.74	4	400	400	NA	191673.0139	400.000
67-66-3	Chloroform	0.68	0.1	10	10	3.8698	355.9048	3.870
156-59-2	cis-1,2-Dichloroethylene	0.53	0.07	7	7	NA	1168.3678	7.000
100-41-4	Ethylbenzene	0.7	0.7	70	70	924.3356	9114.2226	70.000
98-82-8	Isopropylbenzene	21.88	NL	NA	21.88	NA	4370.1032	21.880
75-09-2	Methylene chloride	0.08	0.005	0.5	0.5	3578.5712	1210.0069	0.500
127-18-4	Tetrachloroethylene	0.18	0.005	0.5	0.5	315.9288	141.9142	0.500
108-88-3	Toluene	14.4	1	100	100	NA	22216.8563	100.000
156-60-5	trans-1,2-Dichloroethene	0.53	0.1	10	10	NA	5144.5848	10.000
79-01-6	Trichloroethylene	0.13	0.005	0.5	0.5	18.2675	6.6608	0.500
75-01-4	Vinyl chloride	0.04	0.002	0.2	0.2	3.5576	77.6911	0.200
1330-20-7	Xylene	20	10	1000	1000	NA	1064.1029	1000.000

RRS Table 3
Westside Cleaners
700 Sandtown Road, Marietta, Georgia
HSI #10927
SEA Job#152-018

Residential Risk Reduction Standards Evaluation - Type 2

CAS	Chemical	NC (mg/Kg)	Type1/3 GW	Type 1/3 GWx100 App3 Table 2	Adult Carcinogenic Equ 6	Adult Non- Carcinogenic Equ 7	Child Carcinogenic Equ 6	Child Non-Carcinogenic Equ 7	Child Type 2 GW (mg/L)	Adult Type 2 GW (mg/L)	Type (mg/L)	Default Type 2 GW (mg/L)	Type 2 SSL	Default Type 2 RRS Soil (mg/Kg)
793-54-5	1,1,2,2-Tetrachloroethane	0.13	NL	NA	96.1774	12102.3688	92.5911	1451.9205	0.1060	0.0701		0.0701	133.3806	92.5911
79-00-5	1,1,2-Trichloroethane	0.5	0.005	0.5	168.8841	1.8400	171.2681	0.5252	0.0001	0.0004		0.0001	6.0903	0.5252
75-35-4	1,1-Dichloroethene	0.36	0.007	0.7	NA	179.7012	NA	50.9253	0.1034	0.3395		0.1034	66.4297	50.9253
95-50-1	1,2-Dichlorobenzene	25	0.6	60	NA	3152.7520	NA	834.0780	0.1099	0.3701		0.1099	4597.2841	834.0780
107-06-2	1,2-Dichloroethane	0.02	0.005	0.5	6.3246	37.9610	6.5549	10.6916	0.0040	0.0137		0.0040	3.9804	3.9804
541-73-1	1,3-Dichlorobenzene	2.22	0.6	60	NA	NA	NA	NA	NA	NA		0.0000	7442.4835	7442.4835
106-46-7	1,4-Dichlorobenzene	0.13	0.075	7.5	412.4662	9600.5007	436.2239	2088.9056	0.3321	0.4304		0.3321	2494.3750	412.4662
67-64-1	Acetone	2.74	4	400	NA	162210.8702	NA	32834.6903	7.9897	21.7829		7.9897	409.7302	409.7302
67-66-3	Chloroform	0.68	0.1	10	3.8736	272.1024	4.1213	73.1963	0.0288	0.0196		0.0196	64.0668	3.8736
156-59-2	cis-1,2-Dichloroethylene	0.53	0.07	7	NA	1273.8386	NA	148.3012	NA	0.0723		0.0723	57.5542	57.5542
100-41-4	Ethylbenzene	0.7	0.7	70	932.1254	7185.5487	942.0011	1763.6764	0.4315	1.3273		0.4315	6248.6028	932.1254
98-82-8	Isopropylbenzene	21.88	NL	NA	173385.3651	145998.7387	94442.2712	15642.8065	0.0243	0.0170		0.0170	16.0083	16.0083
75-09-2	Methylene chloride	0.08	0.005	0.5	NA	364993.1022	NA	39106.8657	1.8269	5.7255		1.8269	43.8463	43.8463
127-18-4	Tetrachloroethylene	0.18	0.005	0.5	NA	3649.9992	NA	391.0714	NA	0.1780		0.1780	0.7122	0.7122
108-88-3	Toluene	14.4	1	100	NA	3649.9992	NA	391.0714	NA	0.1780		0.1780	4.0000	4.0000
156-60-5	trans-1,2-Dichloroethene	0.53	0.1	10	NA	12295.4060	NA	3080.5866	0.5006	1.6222		0.5006	4468.1989	3080.5866
79-01-6	Trichloroethylene	0.13	0.005	0.5	317.6610	107.7978	327.5240	29.5858	0.0190	0.0604		0.0190	36.1950	29.5858
75-01-4	Vinyl chloride	0.04	0.002	0.2	NA	4473.1571	NA	846.0319	NA	0.6636		0.6636	528.7091	528.7091
1330-20-7	Xylene	20	10	1000	18.3946	5.0314	18.7757	1.4053	0.0010	0.0034		0.0010	12187.1927	1.4053

RRS Table 4
Westside Cleaners
700 Sandtown Road, Marietta, Georgia
HSI #10927
SEA Job#152-018

Risk Reduction Standards Evaluation - Type 3/4

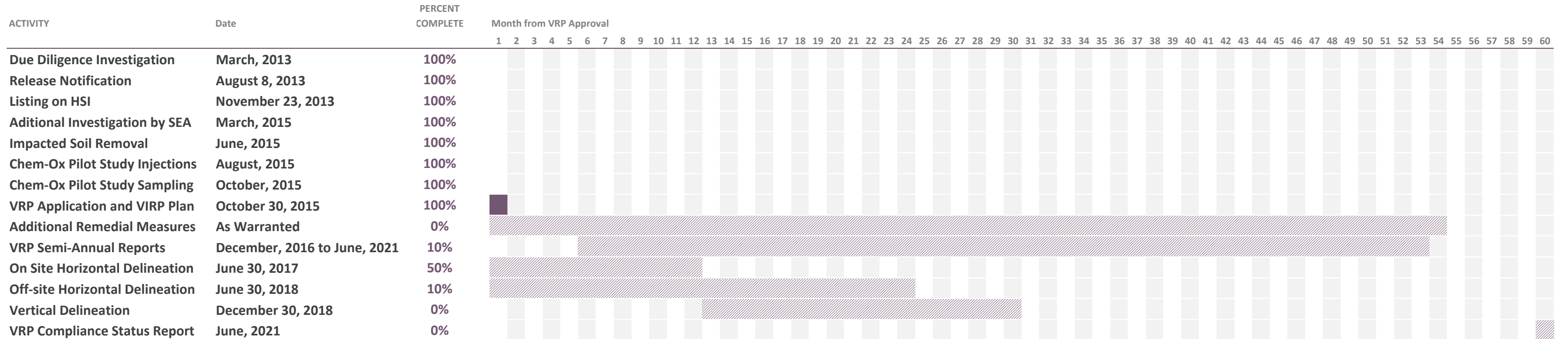
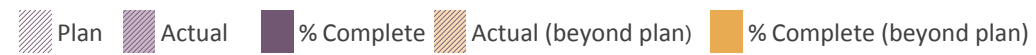
CAS	Chemical	NC (mg/Kg)	Type1/3 GW	Type 1/3 GWx100 App3 Table 2	Carcinogenic Equ 6	Non- Carcinogenic Equ 7	Type 3 RRS >2' (mg/Kg)	Type 3 RRS <2' (mg/Kg)	Type 4 GW (mg/L)	Type 4 Cw term	Type 4 SSL	Default Type 4 RRS (mg/Kg)
793-54-5	1,1,2,2-Tetrachloroethane	0.13	NL	NA	130.3862	28936.4551	0.1300	0.1300	0.8020	0.8020	6.2753	6.2753
79-00-5	1,1,2-Trichloroethane	0.5	0.005	0.5	220.5855	2.5768	0.5000	0.5000	0.0006	0.0050	0.0324	0.0324
75-35-4	1,1-Dichloroethene	0.36	0.007	0.7	NA	252.2025	0.7000	0.7000	0.5241	0.5241	3.7624	3.7624
95-50-1	1,2-Dichlorobenzene	25	0.6	60	NA	4522.3602	60.0000	60.0000	0.5491	0.6000	11.6737	11.6737
107-06-2	1,2-Dichloroethane	0.02	0.005	0.5	8.1409	53.3767	0.5000	0.5000	0.0198	0.0198	0.1122	0.1122
541-73-1	1,3-Dichlorobenzene	2.22	0.6	60	NA	NA	60.0000	60.0000	NA	0.6000	17.3635	17.3635
106-46-7	1,4-Dichlorobenzene	0.13	0.075	7.5	523.9898	14834.2016	7.5000	7.5000	1.7610	1.7610	33.7897	33.7897
67-64-1	Acetone	2.74	4	400	NA	259077.9067	400.0000	400.0000	45.6221	45.6221	186.9164	186.9164
67-66-3	Chloroform	0.68	0.1	10	4.9024	388.1779	10.0000	4.9024	0.2139	0.2139	1.1854	1.1854
156-59-2	cis-1,2-Dichloroethylene	0.53	0.07	7	NA	3163.3911	7.0000	7.0000	0.2004	0.2004	1.1787	1.1787
100-41-4	Ethylbenzene	0.7	0.7	70	1220.3922	10580.4989	70.0000	70.0000	2.2711	2.2711	50.9170	50.9170
98-82-8	Isopropylbenzene	21.88	NL	NA	NA	4808.8352	21.8800	21.8800	1.0482	1.0482	34.3306	34.3306
75-09-2	Methylene chloride	0.08	0.005	0.5	6644.9648	1610.9631	0.5000	0.5000	0.4542	0.4542	2.3195	2.3195
127-18-4	Tetrachloroethylene	0.18	0.005	0.5	410.2957	152.7972	0.5000	0.5000	0.0981	0.0981	0.8918	0.8918
108-88-3	Toluene	14.4	1	100	NA	32903.4436	100.0000	100.0000	5.2410	5.2410	72.5404	72.5404
156-60-5	trans-1,2-Dichloroethene	0.53	0.1	10	NA	7395.3097	10.0000	10.0000	1.7033	1.7033	10.6781	10.6781
79-01-6	Trichloroethylene	0.13	0.005	0.5	23.9198	7.0928	0.5000	0.5000	0.0052	0.0052	0.0375	0.0375
75-01-4	Vinyl chloride	0.04	0.002	0.2	5.0652	83.8513	0.2000	0.2000	0.1496	0.1496	1.0319	1.0319
1330-20-7	Xylene	20	10	1000	NA	1123.5726	1000.0000	1000.0000	0.2879	10.0000	198.0014	198.0014

Appendix 10: Milestone Schedule Gantt Chart

Former Westside Cleaners
700 Sandtown Road
HSI# 10927
SEA Job No. 152-018

VRP Approval Date: June 30, 2016

Gantt Chart - December 30, 2016



Appendix 11: Summary of Services and Professional Hours

Former Westside Cleaners
Marietta, Cobb County, Georgia
HSI #10927

SEA Job #152-018

Summary of Activities and Professional Hours

1st Semi-Annual VRP Progress Report - October 2015 through December 2016

Activity	Professional Hours Spent
Groundwater Sampling Events - October 2015 & November 2016	4
Soil Sampling Event - November 2015	2
Monitoring Well Installation (MW-6 through MW-8)	5
Potential Receptor Survey (3-mile radius)	3
Risk Reduction Standards Evaluation	6
Meeting with EPD	2
Semi-Annual Report Preparation	72