



**SUPPLEMENTAL
CHARACTERIZATION
AND GROUNDWATER
REMEDIATION STUDY**

**FORMER DRUM STORAGE AREA
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK**

KRAFT HEINZ FOODS COMPANY, INC.

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1 INTRODUCTION

On behalf of Kraft Heinz Foods Company (Kraft), WSP USA (WSP) is providing the results of supplemental characterization work conducted in June 2018 and a feasibility study (FS) for treating the residual contaminants of concern (COCs) (primarily tetrachloroethylene) in the groundwater beneath the former drum storage area (FDSA) on the Rowe Industries Superfund Site (Site).

Further characterization efforts were conducted in the FDSA to delineate and quantify the residual contamination in December 2015 and June 2018 (Figure 1) and subsequently update/refine the extent of the residual COCs and clay lenses. The December 2015 characterization work determined that all saturated soil and most groundwater quality data were below Applicable or Relevant and Appropriate Requirements ARARs in the 12 borings (SB1 to SB12) that were drilled. The December 2015 characterization work did not identify hot spots of residual COCs on which to focus future remedial efforts beyond what was initially known. The summary of the December 2015 characterization effort was provided in the September 2017 report titled “Characterization of the Saturated Zone in the Former Drum Storage Area”. The June 2018 characterization work was completed to locate hot spots of residual COCs within the FDSA to determine appropriate locations to focus future remedial efforts. The June 2018 characterization work is summarized in Section 2.3.

The purpose of this report is the following:

- To summarize the results of the June 2018 characterization work and update the conceptual site model;
- To evaluate potential remedial alternatives for treating the residual COCs in the FDSA; and
- To recommend a preferred remedial alternative for treating the residual COCs in the FDSA.

2 BACKGROUND

2.1 PREVIOUS UNSATURATED ZONE TREATMENT IN THE FDSA

Excavation of contaminated soil from the surface to four feet below grade was successfully completed in the FDSA in 1998. To treat the remaining contamination in the unsaturated zone, a soil-vapor extraction (SVE) system operated from 1998 to 2003. The combination of these two remedial efforts successfully treated the unsaturated zone of the FDSA.

In January 2005, LBG Hydrogeologic and Engineering Services, P.C. (LBGHES) submitted to the EPA a report titled “Addendum to Soil Remedial Action Report, Closure Request for Source Soils in the Former Drum Storage Area”. This report described the activities and results that demonstrated soil quality in the unsaturated zone of the FDSA had achieved ARARs. The EPA approved this report as written. Therefore, the remaining cleanup efforts in the FDSA focus on treating COCs in the saturated zone.

As part of the information presented in the January 2005 report, exceedances of the ARAR for PCE in soil were identified from soil samples collected at borings C3-2 and C3-4 in January 2003. The residual PCE in these borings was located in the vadose zone (at depths below the annual high-water level such that they are in the saturated soil part of the year and are not considered part of the unsaturated soil). Therefore, that report concluded the residual contamination detected in the soil vadose zone would be better treated by the groundwater remedy. With that in mind, the location and information from these borings were evaluated as part of this FS and are included in the soil quality table (for saturated soil) and figures in this FS. The soil quality in the remaining borings that were advanced in January 2003 did not have concentrations of PCE in the soil above the ARAR.

2.2 PREVIOUS AND EXISTING SATURATED ZONE TREATMENT IN AND DOWNGRADIENT OF THE FDSA

In November 2000, the FP&T remediation system began operating with four focused recovery wells (FRW-1, 2, 3 and 4) in the FDSA. The primary objective of groundwater extraction from the FRW is to prevent COCs from migrating beyond the FDSA. In 2008, the FRW were rerouted so that extracted groundwater would be treated in the FSP&T system. Since 2000, on-going groundwater monitoring indicates that COCs have not migrated beyond the FDSA.

In December 2002, the FSP&T system consisting of nine recovery wells (RW-1 through RW-9), an equalization tank, bag filters, a tower air stripper and transfer tank were installed and began operation for the purpose of recovering dissolved-phase COCs in the groundwater plume downgradient from the FDSA. Initial FSP&T system influent PCE concentrations were 110 ug/L. By January 2011, all of the recovery wells (RW) on and downgradient of the Site had attained contaminant concentrations below ARARs. In accordance with the Site’s consent decree, eight of the recovery wells located downgradient of the FDSA have been turned off with EPA approval between July 2005 and January 2014 once the water quality in the RWs had achieved ARARs for at least three consecutive years. Currently, FRW-1 thru 4, and RW-2 remain in operation.

In November 2004, approximately 10,800 lbs. of EHC® product, which contained a micro-scale zero-valent iron (ZVI) and a carbon nutrient source, was injected into the saturated zone of the FDSA to attempt to accelerate abiotic and anaerobic natural attenuation processes. The EHC injections facilitated limited degradation of PCE to cis-DCE and VC, however the injections did not lead to significant long-term reductions in COC concentrations. It

is believed that the viscosity of the EHC® product hindered subsurface distribution and prevented complete treatment of residual COCs beneath the FDSA.

COC concentrations in groundwater from the FDSA have decreased significantly as a result of past and current remedial efforts in the saturated zone beneath the FDSA. However, COC concentrations in groundwater persist at concentrations above ARARs. The remediation alternatives discussed in this report are intended to enhance remedial efforts to address groundwater quality in the FDSA.

2.3 JUNE 2018 CHARACTERIZATION WORK

In June 2018, WSP conducted work in the FDSA to improve the characterization of the lithology and identify the location and magnitude (i.e. concentration and areal extent) of residual COCs to facilitate an informed decision for future remediation efforts in the saturated zone of the FDSA. Section 2.3.1 describes the preparation activities completed prior to field work, and Section 2.3.2 describes the work conducted and methodology. Section 2.3.3 describes the results. Section 2.3.4 discusses the results and the updated conceptual site model. In addition to the June 2018 characterization work, results of groundwater samples collected in July, August and September as part of the monthly remedial system monitoring and annual groundwater monitoring are included in the discussion of the updated conceptual site model. The results are incorporated into tables and figures; the analytical reports were provided separately as part of the regular monthly and semi-annual reports.

2.3.1 PREPARATION FOR FIELD WORK

Prior to drilling activities, Mrs. Christie Hagerman, who is one of the owners of 107 Laurel Lane (i.e. location of the FDSA), was notified in writing in a letter dated June 1, 2018, of WSP's intent to conduct subsurface investigation activities on her property. The written request was followed by a telephone call on June 12, 2018 to discuss the intended work and to insure the owner was comfortable with the work that was proposed on her property. The site-specific health and safety plan (HASP) was reviewed and updated for the drilling and sampling activities being conducted. The WSP Sr. Hydrogeologist reviewed the relevant task-specific safety procedures with WSP field staff (drill rig safety, appropriate personal protective equipment (PPE), etc.). New York One-Call was contacted to obtain utility clearance for the drilling work and the FP&T system was turned off prior to beginning the work.

2.3.2 WORK CONDUCTED AND METHODOLOGY

On June 18, 2018, WSP advanced seven soil borings (SB13 to SB19) using direct push (Geoprobe®) drilling techniques to an explored depth ranging from 28 to 33 feet below grade (ft bg) (Figure 1). To minimize disturbance of the work area, plywood was placed in the path of the Geoprobe® rig to minimize lawn damage. Prior to using the drill rig at SB18 and SB19, a combination of hand-digging and a high-vacuum extraction truck were used to remove soil to a depth of 4 ft bg to facilitate clearance for drilling in these two locations to avoid drilling through the below-grade lateral pipes associated with the FP&T system. Boring logs are provided in Appendix I

In the remaining five boring locations, a 3.25-inch diameter probe rod (riser) was advanced to approximately 4 ft bg. A four-foot long sample sheath containing the plastic liner with integrated core catcher was advanced through the cutting shoe beyond the probe rod to collect soil samples. The plastic liner was subsequently

retracted through the probe rod, which remained in place. Once the soil sample was collected, the riser was then advanced another four feet and the process repeated.

Soil samples were collected continuously from approximately 4 ft bg up to 33 ft bg. At each boring a hydrogeologist visually inspected the soil cores, logged the soil lithology and screened the soil for VOCs with a calibrated photoionization detector (PID) equipped with a 10.6 electron volt (eV) bulb. The soil type, color, field estimate of moisture content, field instrumentation readings, evidence of soil contamination (staining, odors, etc.) and sampling interval were recorded on soil boring logs; copies of which are attached in Appendix I.

Sixteen soil samples from the saturated zone were collected from seven borings at depths ranging from 22 to 33 ft bg. At least one soil sample with low permeability and one sample with high permeability was collected at each boring. Samples were stored on ice, preserved as needed and transported to a certified laboratory under standard chain-of-custody procedures. Sixteen soil samples were analyzed for VOCs via EPA Method 8260, seven soil samples (one from each boring) were analyzed for total organic carbon (TOC) via Method SW9060 and ten soil samples were analyzed for soil oxidant demand via ASTM Method D7262-07.

On June 19, 2018, groundwater sampling was conducted at monitor wells MW-98-01A, MW-98-04 and MW-98-05BR to assess the groundwater quality in these wells located within or immediately downgradient of the FDSA. The original intent was to collect a groundwater sample at MW-98-05AR (not MW-98-05BR); however, the sampler mistakenly collected samples from MW98-05BR. Historic results for MW98-05AR and results from MW98-01 were used to evaluate groundwater quality in the FDSA. Dissolved oxygen (DO), oxidation-reduction potential (ORP), pH, temperature, turbidity and conductivity were evaluated and documented in the field using a calibrated Horiba flow-through cell. Ferrous iron concentrations were evaluated with a field kit at monitor wells MW-98-01A and MW-98-04 on June 20, 2018. Groundwater samples were collected at FRW-1, 2 and 3 for nitrate and nitrite on July 2, 2018.

The groundwater samples were stored on ice, preserved as needed and transported to a certified laboratory under standard chain-of-custody procedures. The groundwater samples were analyzed at the laboratory for VOCs via EPA Method 8260, TOC via SM5310B (00, 11), total and dissolved iron via SW846 6010C, sulfate, nitrate and nitrite via EPA Method 300.0, sulfide via SM4500S-D-11, dissolved methane, dissolved ethene and dissolved ethane via Method RSK-175. An equipment blank and trip blank were collected and analyzed for VOCs for quality assurance/quality control purposes.

All site activities were documented in field notes, geologic logs, low-flow logs and/or photographs. All instrumentation used for the measurement of field parameters (i.e. PID and Horiba) were calibrated daily prior to use and cleaned/decontaminated at the end of each work day, as necessary.

Drilling and/or sampling equipment was decontaminated between each boring and/or sampling location and all purge water was discharged to the on-site treatment system. Used PPE and plastic liners were placed in labelled drums that will be temporarily stored on site and disposed of off-site pursuant to applicable state and federal regulations. Drilling activities that damaged the lawn was re-graded/repaired and re-seeded, as needed.

2.3.3 *RESULTS*

Geology and Hydrogeology

Soil samples logged in the FDSA were identified mostly as fine to coarse sand with smaller amounts of silt and clay. Boring logs are provided in Appendix I. One fairly continuous clay and silt lens, which is considered the primary lens in the FDSA, exists in the saturated zone at an elevation ranging from approximately -3 ft to 2 ft above mean sea level (amsl). The thickness of the primary lens ranges from approximately 0.3 to 2.8 ft. Several smaller, discontinuous clay and silt lenses exist above the primary lens; most of these smaller clay and silt lenses are located at or below the groundwater table (Figures 2 and 3). The locations of the cross sections shown in Figures 2 and 3

are shown on Figure 1. The thickness of these smaller lenses ranges from approximately 0.3 to 2.0 ft. Figures 2 and 3 depict a low and high groundwater table for water levels collected from 2003 to 2018 at monitor wells MW-98-01A, MW-98-04/04B, MW-98-05A/AR, MW-98-05B/BR, MW-45A and MW-45B located in or immediately adjacent to the FDSA. The groundwater elevations are presented in tabular form in Table 1. The groundwater elevations from 2003 to 2018 range from approximately 6.1 ft amsl to 13.6 ft amsl. Additional discussion for groundwater elevations as it relates to residual PCE contamination is provided in Section 2.3.4. From previous semi-annual and annual reports, the general direction of groundwater flow in the FDSA is to the northwest.

Soil Quality

The results of the soil sampling from 2018 are presented in Table 2 along with samples collected in 2015 for reference. A total of 16 samples were collected from 7 borings during the June 2018 investigation. PCE was detected in 5 of 16 samples and the detected concentration exceeded the ARAR (1.5 mg/kg) in 1 sample (630 mg/kg) taken at a depth of 23-24 ft bgs (9-10 ft amsl) at location SB-13. The soil quality results for VOCs in the remaining samples collected on December 2015 and June 2018 (56 samples from 19 borings) were below ARARs and, in many cases, were below the laboratory reporting limits.

The TOC in the soil samples collected on December 2015 and June 2018 ranged from 1,000 mg/kg to 36,000 mg/kg (Table 2). Permanganate soil oxidant demand (SOD), which was evaluated for 10 samples collected during the June 2018 characterization event, ranged from 99 mg/kg to 14,333 mg/kg and 116 to 17,199 mg/kg on a wet and dry weight basis, respectively. The laboratory report for soil samples collected in June 2018 are provided in Appendix II.

Groundwater Quality

The results of groundwater samples collected in June 2018 are summarized in Table 3 (geochemistry results) and Tables 4 and 5 (VOC results) along with historic results from the sampled wells. The results for total and dissolved iron in the groundwater from 2004 to 2018 at monitoring wells MW98-01A, MW98-04, MW98-05A and MW98-05BR, and FRW-1, 2, 3 and 4 ranged from less than 10 ug/L to 150,000 ug/L. Ferrous iron ranged from less than 25 ug/L to 12,800 ug/L. Sulfate and sulfide concentrations in the groundwater ranged from less than 1 ug/L to 69,300 ug/L. Nitrate and nitrite concentrations in the groundwater ranged from 82 ug/L to 1,020 ug/L. TOC concentrations in the groundwater ranged from 942 ug/L to 307,000 ug/L. Methane, ethane and ethene concentrations in the groundwater ranged from less than 3 ug/L to 7.1 ug/L.

The results for COCs (PCE, TCE, 1,2-DCE, TCA) from the groundwater sampling conducted at monitor wells MW-98-01, MW-98-04 and MW-98-05BR on June 19, 2018 were below their respective ARAR. These results are in line with historic results which have ranged between non-detect and 2,400 ug/L since monitoring began in 1998.

Laboratory reports for June and July 2018 groundwater quality are included in Appendix II. The data from the September 2018 semi-annual monitoring event will be provided in the Semi-annual monitoring report.

Quality Assurance Quality Control (QA/QC)

Soil and groundwater samples were collected and submitted with the preservative needed and within the hold time limit under standard chain-of-custody procedures; with any noted exceptions provided in the comments for a specific laboratory report provided below. A summary of quality assurance/quality control (QA/QC) for the laboratory reports is provided below.

Laboratory Report 18F0837 (York - Soil Samples – Report No. 18F0837)

Surrogate recovery for toluene was outside of the established control limits for soil samples SB13 (23-24), SB17 (26-27) and SB19 (27-29) because of a sample matrix interference effect. The samples were re-extracted and re-analyzed to confirm this effect. The matrix interference effects can reduce the reliability of the data, however, because of the magnitude of the detected concentrations for toluene, the results are considered to be usable for feasibility study purposes. For soil sample SB14 (26-28), the sample was diluted because of the presence of high concentrations of non-target analytes resulting in elevated reporting limits above the ARARs. This information was factored into the evaluation for this FS by including boring SB14 within the boundary of where the PCE concentration exceeded the ARAR; as shown on Figure 1.

The relatively low concentrations of acetone and methylene chloride were estimated values because of their behavior during initial calibration. Acetone is commonly used for cleaning purposes in laboratory equipment and is considered a laboratory artifact at the noted estimated concentration range. The remaining QA/QC for this laboratory report did not reveal any other issues.

Laboratory Report (Terra Systems SOD Soil Samples – a report number is not provided on the documentation)

The SOD data were evaluated without any QA/QC issues being identified relative to ASTM Standard D7262.

Laboratory Report (Eurofins Groundwater Samples – Report No. SC47887)

For Quality Assurance/Quality Control (QA/QC) purposes, one trip blank (TB) and one equipment blank (EB) were analyzed. TBs are preserved vials prepared by the laboratory with DI water and shipped with the sample vials. The TB was carried by the sampling hydrogeologist with her vials, and then returned to the laboratory for analysis in order to rule out inadvertent exposure of the vials or samples to VOCs. The results of the TB indicated all VOCs were below laboratory reporting limits.

The sampling hydrogeologist collected an EB by running DI water through tubing and equipment in the field following the same procedures as the collection of groundwater samples with clean, single-use tubing. The EB was then submitted to the laboratory for analysis in order to rule out any contamination from the tubing or equipment. The results of analysis of the EB show that low, estimated concentrations of acetone, chloromethane and methylene chloride were detected. The presence of acetone may be the result of a laboratory artifact. Regardless, the presence of these compounds at the low concentrations reported is not expected to be an issue for the purposes of this FS. The remaining QA/QC for this laboratory report did not reveal any other issues.

2.3.4 DISCUSSION AND CONCEPTUAL SITE MODEL

Groundwater concentrations continue to persist at concentrations above ARARs for PCE and to a lesser extent its breakdown products. PCE concentrations range from non-detected to 1,100 ug/L in the FDSA since January 2013. FRW-1 has the highest average and range of concentrations over the past 5 years, followed by FRW-3, FRW-2 and FRW-4. Concentrations have shown a regular annual fluctuation with higher concentrations in winter/spring and lower concentrations in summer/fall (Graphs 1-4). This is true even when the system is not operating for an extended period of time. In 2012/2013, the FRWs were off-line from September 2012 to June 2013 and during that period concentrations increased through the fall, peaked in March and began decreasing until the FRW were reactivated in June. The FRWs were off-line from July 2 through September 21, 2018 and during this period PCE concentrations range from ND to 49 ug/L in samples collected from the FRW and ranged from 2.6 to 20 ug/L in samples collected from the FRW and FDSA wells during the September 2018 Semi-Annual monitoring event.

Pre-FP&T system startup groundwater elevations ranged from 10 ft amsl to 6.5 ft amsl (Graph 5). Similarly, over the period from September 2013 to September 2018, water levels have fluctuated between a range of 10 ft amsl to 6.5 ft amsl in the monitoring wells around the FDSA with higher water levels in the winter/spring and lower levels in the summer/fall. This agrees with the water level pattern and range identified by water level measurements collected in 1999 before the operation of the FRWs. Water levels measured at the FRWs and MW-98-05AR within the FDSA range between 0 and 9.5 ft amsl while the FRW pumps are in operation. The combination of the natural, seasonal fluctuation of the groundwater and operation of the FRWs leads to the development of a partially saturated zone located around the FRW within the FDSA. This zone is approximately the horizontal extent of the capture zone around the FRWs and vertically between 4 and 10 ft amsl.

The additional soil investigation in June 2018 was intended to identify potential PCE remaining in the subsurface that is contributing to on-going elevated groundwater concentrations in the FDSA. Previous soil investigations in 2000-2003 concluded that PCE is no longer present in the unsaturated zone above the normal high ground water level (approximately 10 ft amsl). PCE concentrations above ARARs were identified in low permeability soils at depths within the normal range of groundwater fluctuation between 6 and 10 ft amsl at C3-2 (2 to 230 mg/kg) and C3-4 (1.8 mg/kg) in soil samples collected between 2000 and 2003. In 2015, additional soil sampling was conducted within the FDSA around the FRWs at the edges of the FRW capture zone. Twelve soil borings were installed and 40 soil samples were collected and all PCE was below ARARs in all samples. The additional subsurface investigation work conducted in June 2018 targeted soil in the naturally saturated zone below 10 ft amsl and immediately around and between the FRW. One soil sample contained an elevated PCE concentration (630 mg/kg) at boring SB13 at a depth of approximately 23 to 24 ft bg or 8-9 ft amsl (SB13 23-24) in soil from the same small silt and clay lens as C3-2 samples from 2000-2003.

The soil data collected in 2000-2003, 2015, and 2018, the range of groundwater PCE concentrations observed in FRWs, and the results of extended periods of FRW shut-down in 2010, 2013 and 2018 suggest that some amount of PCE remains in a partially saturated subsurface zone around the FRWs. Water in the subsurface comes in contact with these remaining pockets of PCE through natural fluctuations in the groundwater table, artificial fluctuations in the groundwater table due to FRW operation, and infiltration of precipitation. Since concentrations in the FRW wells are typically higher in the winter/spring and lower in the summer/fall, this suggests that the above saturation factors combine to saturate soil zones where PCE remains in the winter/spring and combine to prevent saturation of elevated PCE soil zones in the summer/fall.

Specifically, the data collected to date suggests that elevated PCE in the partially saturated soil between 6 ft amsl and 10 ft amsl around FRW-1 and to a lesser extent FRW-2 and FRW-3 is causing the persistent elevated PCE concentrations in groundwater. PCE may exist in other locations in the regularly saturated zone (below 6 ft amsl), but do not result in elevated PCE in groundwater.

The results of the geochemistry and soil property data collected in 2018 provide information that will aid in evaluating remedial measures to address the identified areas of remaining residual COCs.

- The TOC soil results suggest high organic content at a depth of approximately 23 to 24 ft bg in boring SB13 (36,000 mg/L). The high organic content could be the result of organic-rich soil and/or elevated concentrations of residual COCs. The remaining TOC values were within normal ranges for soil.
- Permanganate SOD soil results provide helpful information to assist in determining doses of chemical oxidant, such as permanganate, to inject into the FDSA. A wide range of SOD values were measured in the FDSA with higher values in the low permeability soils (> 2,000 mg/kg) and lower values (< 2,000) measured in the high permeability soil. Soils with higher SOD will require higher oxidant dosing to overcome the natural oxidant demand from the aquifer. Residual PCE within the partially saturated soil horizon is expected to be in the lower permeability soils based on the CSM. The higher SOD results in low permeability soil indicate a higher dosing or multiple doses of the chemical oxidant would be needed to overcome the natural oxidant demand in the aquifer and effectively address residual PCE.

- Groundwater quality data for geochemical and field screening parameters collected in June 2018 indicate that upgradient and downgradient of the FDSA are generally characterized by low dissolved oxygen and conditions within the FDSA near the FRW are hypoxic (ORP < 200, low DO).

3 REMEDIAL ALTERNATIVES

As discussed in Section 2, SVE and excavation have been previously implemented to address the unsaturated soil in the FDSA. Since 2000, groundwater extraction and treatment has been implemented to address saturated soil and groundwater in the FDSA. In 2005, in-situ chemical reduction was implemented to supplement the groundwater extraction and treatment. Based on results from recent monitoring of the FDSA groundwater during dry/low flow conditions in the fall/summer, regularly saturated zones in the subsurface have been remediated such that concentrations are near ARARs without operation of the FRW. Additionally, results from soil sampling near the FRW indicate that remaining elevated concentrations of PCE are located within the soil zone from 6 – 10 ft amsl; this zone is only partially saturated throughout the year depending on FRW efficiency, infiltration and natural water table fluctuations. Typically, the highest water table and infiltration occur in the winter/spring which is when elevated PCE have been observed. To address the remaining PCE in saturated soil in the FDSA, two technologies were evaluated: 1) in-situ chemical oxidation; and 2) in-situ enhance reductive dechlorination.

As noted in the 1992 ROD, groundwater clean-up to MCLs is not always feasible under certain Site conditions. In the case of the Rowe Industries Site, multiple technologies have been successfully implemented over the past 30 years to reduce contaminant mass and meet the groundwater clean-up objectives over more than 99% of the original plume area. During that time, local ordinances and public water supply connections have removed the drinking water exposure pathway and significantly reduced the risks associated with groundwater concentrations above MCLs. With this in mind, the goal of the selected remedial action will be to reduce concentrations of PCE in the saturated zone around the FRWs at the Site. With the overall goal of preventing migration of COCs downgradient of the Rowe Industries Superfund Site at concentrations above ARARs through the source control actions described below followed by long-term monitoring to verify that COCs above MCL are contained to the Site.

The following subsections describe in-situ chemical oxidation (Section 3.1) and in-situ reduction (Section 3.2), selection of the optimal technology based on effectiveness, implementability and cost under site conditions (Section 3.3) and describe the scope for implementation and monitoring of the selected remedial alternative (Section 3.4).

3.1 CHEMICAL OXIDATION WITH IN-SITU INJECTION

Remediation of soil impacted with COCs using in situ chemical oxidation (ISCO) involves injecting or mixing oxidants and potentially co-amendments directly into the impacted media. Under proper conditions oxidants yield reactive species that can transform and often mineralize many COCs, including PCE. With chemical oxidation, the substrate loses electrons and is oxidized, while the oxidant gains electrons and is reduced. The oxidant chemicals react with the contaminants present in the soil, producing innocuous substances such as carbon dioxide, water, and in the case of chlorinated compounds, inorganic chloride. Chlorinated solvents (e.g., ethene and ethanes) are amenable to treatment by ISCO.

In addition to reacting with contaminants, ISCO oxidants can also consume natural organic matter in the soil. Soil Oxidant Demand (SOD) testing was conducted during the June 2018 investigation and indicated that natural organic matter in the aquifer imparts low to moderate SOD in the high permeability zones and moderate to high SOD in the low permeability zones. As the natural organic matter is consumed, contaminants sorbed to the natural organic matter will be released. The migration of COC will depend upon the permeability of the soil being treated and the oxidant injected. The less permeable the soil, the lower the chance for migration in groundwater because the oxidant has more time to react with the COCs. SOD will need to be considered when designing the dosing for an ISCO implementation.

Injection of oxidants can also temporarily increase the solubility of certain metals resulting in increased concentrations in the surrounding groundwater. This phenomenon is most significant when the natural aquifer conditions are reducing and typically only lasts until redox conditions return to normal. The groundwater monitoring program can be adjusted to include metals testing if metals migration is a concern.

ISCO has been commonly implemented using the following reagents: permanganate, persulfate, catalyzed hydrogen peroxide (Fenton's Reagent) and Ozone. These reagents have been used to treat chlorinated ethenes at a number of sites and the specific reaction chemistry is readily available in various guidance documents. ISCO is typically used for mass removal/source treatment in the saturated zone and, like other in-situ methods, will meet low RAOs (i.e. MCLs) in conjunction with other remedies like MNA. Proper reagent selection is the key to successful ISCO implementation. The reagent is selected based on the target contaminant(s), reagent properties and site conditions. Ozone and fenton's reagent are extremely reactive and therefore only persist in the environment for minutes to a few hours. Based on the CSM, ozone and fenton's reagent are expected to react before contacting COCs present in low permeability soils. Additionally, gas and heat generation are concerns given the proximity of buildings to the injection site. Persulfate is highly reactive but more persistent than ozone or fenton's reagent and more selective (less impacted by SOD) than permanganate. Similar to fenton's reagent, persulfate requires activation under specific conditions (low pH with ferrous iron or high pH with high temperature) and can cause aquifer clogging due to metals precipitation. Permanganate is the most persistent chemical oxidation product, does not require activation and is effective over a wide range of aquifer conditions. Permanganate is more susceptible to natural organic matter, can cause clogging due to precipitation, but typically only when used to treat NAPL, and can impart a purple color to groundwater until permanganate is exhausted.

Based on the conditions in the FDSA, permanganate is expected to be the most effective reagent. Permanganate can be applied as a liquid via gravity, soil mixing, or pressurized injection. Given the depth to the target treatment zone (20-25 ft bgs) and the site setting, surficial gravity and soil mixing applications are not appropriate. Pressurized injection through direct push well screens or new/existing wells will allow for the best distribution of reagent and can create new preferential pathways to access low permeability zones. Injection through existing wells could include batch injection or recirculation of the reagent using the existing extraction system infrastructure. Solid permanganate can also be injection through hydraulic or pneumatic fracturing techniques but are not expected to be as effective as liquid injection.

3.2 ENHANCED REDUCTIVE DECHLORINATION PROCESS

Enhanced Reductive Dechlorination processes include chemical reduction or microbial reduction. In both cases, chlorinated compounds are degraded to non-toxic daughter products under reducing conditions. With chemical reduction, electrons are transferred from the reductant to the substrate. The substrate gains electrons and is reduced, while the reductant loses electrons and is oxidized. The chemical structure of the chlorinated solvent determines how susceptible it will be to reduction or oxidation. In general, solvents with carbon atoms that are electron rich are more susceptible to oxidation; carbon atoms that are electron deficient are more susceptible to reduction. The more chlorines added to a solvent molecule the more oxidized it is and the more resistant it is to further oxidation but the more susceptible to reduction.

ZVI has been employed successfully in low pH environments as a stand-alone remedy to support abiotic VOC degradation. Chemical reduction of the VOCs can occur on the ZVI particle surface, and hydrogen produced during iron corrosion can serve as an electron donor for biological dechlorination. In addition, hydroxyl ions produced from corrosion of ZVI increase pH within the treatment area to levels favorable for biotic dechlorination. This abiotic process is suited to aquifers that have relatively high accumulation of daughter products. β -elimination mechanisms promoted by ZVI would typically not accumulate daughter products, as the degradation pathways bypass the production of cis-1,2-dichloroethene (cis-1,2-DCE) and vinyl chloride.

Chlorinated volatile organic compounds (CVOCs) can also be degraded by anaerobic microbes known as reductive dechlorinators to non-toxic daughter products. Such biodegradation requires reducing conditions to stimulate anaerobic bacteria to dechlorinate the CVOC. The approach is designed to provide a carbon or electron donor source to create reducing conditions necessary to enhance anaerobic biodegradation. Examples of effective electron donors that degrade the chlorinated VOCs when delivered to the subsurface include molasses/water mixture, whey, high fructose corn syrup, or sodium lactate. Such anaerobic bioremediation processes have been successful and well documented at a wide variety of sites, and guidance documents are available that describe the process in detail.

The anaerobic microbes use CVOCs during dehalorespiration via reductive dechlorination. There are a variety of bacteria that dehalorespire only on tetrachloroethene (PCE) or trichloroethene (TCE), producing toxic cis-1,2-dichloroethene (cDCE) in the process. In contrast, the dechlorinating microorganisms Dehalococcoides (Dhc) are the only known microorganisms capable of further dechlorination to non-toxic ethene. Although Dhc microorganisms are widely distributed in the environment, research indicates that they are not ubiquitous. If Dhc is absent from a site, incomplete dechlorination and accumulation of cDCE is anticipated to occur, or extended acclimation periods will be required to allow low concentrations or poorly distributed Dhc populations to achieve functional cell densities. If the results of groundwater monitoring during the course of anaerobic bioremediation indicate insufficient Dhc bacterial populations, then the biostimulation is often combined with bioaugmentation using commercially-available microbes.

Under this remedial approach, the microbes sequentially dechlorinate the CVOCs and gain energy in each step, while utilizing the substrate as a carbon source and the CVOC as an electron acceptor. The adapted microbes respire using the CVOCs in place of other electron acceptors such as oxygen. The areas in which substrate is delivered become anaerobic due to the uptake of available electron acceptors to support respiration of the microbes, which provides the environment required for the bioremediation process to take place. Similar to ISCO, ERD is effective for specific site conditions.

In order to effectively anaerobically bioremediate a particular area, it is critical to:

- Select the optimal chemical additives.
- Properly distribute the chemical and biological additives to stimulate the dechlorination process within the contaminated area.
- Bioaugment (if necessary) the site with dechlorinating microbes.
- Maintain the enhanced subsurface conditions for sufficient time to fully dechlorinate the dissolved and adsorbed CVOCs.

Injection Approaches

Batch injections of relatively high strength but sparingly soluble carbon amendments, such as emulsified vegetable oils, can be slowly released and can offer electron donor that can subsequently travel with the groundwater for a limited distance and be distributed downgradient of the injection point. Alternatively, batch injections of relatively low strength but soluble carbon amendments (such as lactates and sugars) can be released more rapidly and transported relatively greater distances downgradient.

Chemical reduction by amendments such as zero valent iron (ZVI) have the advantage of being able to treat high concentrations of CVOCs while producing limited amounts of intermediates, such as vinyl chloride. Biological reduction by amendments such as emulsified vegetable oil (EVO) or lactates have the advantage of being able to treat low concentrations of CVOCs. The state of the soil and groundwater remediation practice is evolving, in recognition that combining chemical and biological reduction can function synergistically by creating a reducing environment that thermodynamically promotes biological reductive dechlorination. This combined approach is

intended to promote rapid abiotic degradation within the zone of influence, and to also enhance long-term biological dechlorination.

Additionally, ERD can be supplemented through the use of activated carbon technologies to capture contaminants and treat them within the activated carbon matrix. The same conditions and amendments noted above would be needed to facilitate ERD with activated carbon. In general, activated carbon has a high surface area per unit volume; therefore, it has the potential for many COC molecules to adhere to its surface. This property (i.e. high surface area) can be beneficial during the degradation step.

One activated carbon product is Plumestop® Liquid Activated CarbonTM manufactured by Regenesis. Plumestop® is composed of very fine particles of activated carbon (1 to 2 µm) suspended in water through the use of unique organic polymer dispersion chemistry. In the subsurface, the material behaves as a colloidal biomatrix binding to the aquifer matrix and removing contaminants from groundwater. Once contaminants are sorbed onto the regenerative matrix, biotic and abiotic degradation processes can degrade the contaminant under proper conditions. Use of activated carbon for in-situ treatment of CVOCs is still a relatively new approach which is typically used to cut-off plumes while other source area treatment is implemented. This technology is designed for inhibiting migration of contaminants in the aqueous phase but treatment is only accomplished if proper reducing conditions can be established and maintained in the locations where contaminants reside in the subsurface. Biofouling can also close off surface activation sites limiting the capture of the injected activated carbon. Given the potential for biofouling, potential side effects from dispersion chemicals and lack of dissolved plume at the Site, addition of activated carbon is not considered necessary for this application.

Delivery methods include batch injection and recirculation injection approaches. Batch injections are typically most effective under conditions where naturally reducing or hypoxic/anoxic conditions are already in place. In the case of the FDSA, natural aquifer conditions around the FDSA are generally aerobic and hypoxic within the FDSA. To off-set the influx of potentially aerobic groundwater from upgradient, additional injection points are needed to ensure anaerobic conditions in the target treatment area. Continuous and recirculation injection methods are more aggressive approaches for distributing carbon amendments and can aid in maintaining proper pH and carbon amendment levels. However, the continuous addition of carbon substrate can lead to biofouling of wells which is already an issue with the FRW in the FDSA. Additionally, recirculation systems have a high capital, operation and maintenance cost which make these systems cost effective only for larger sites.

4 RECOMMENDATION

Many CVOCs can be degraded via oxidative and/or reductive processes. Accordingly, various oxidizing and reducing agents have been developed to remediate CVOC-impacted groundwater. These reagents have differing features in terms of safety, ease of use, longevity, dosing requirements, and remedial efficacy. There are also situations when the different technologies can be successfully combined (e.g., applying in-situ chemical oxidation [ISCO] within a source area coupled with an in-situ chemical reduction [ISCR] permeable reactive barrier for plume control).

Important factors to consider when selecting a remedial approach include: the type of application (source removal, plume control or both), possible presence of free product, desired remedial timeframe, longevity of the material in the subsurface/reaction kinetics, and secondary environmental impacts. The contaminant profile also needs to be considered. ISCR is effective in treating a wide range of halogenated compounds, but not very effective for treatment of petroleum-based hydrocarbons. The reactivity of ISCO technologies toward different contaminants are diverse and dependent upon activators and application technique.

In general, if the targeted environment is hypoxic (oxygen limited), it seems intuitive to employ an ISCR strategy. Conversely, an ISCO strategy would likely be more effective in an oxic environment. Chemical oxidants will oxidize natural organics and reduced inorganics, and the ISCO loading requirements will therefore be higher for soils with high organic carbon content. Particularly for soils with relatively low CVOC concentrations, ISCO may become cost prohibitive if the CVOC oxidant demand represents a relatively small fraction of the total oxidant demand of the soil. In contrast, the presence of competing electron acceptors such as oxygen, nitrate, iron(III), manganese and sulfate increase ISCR loading requirements.

Oxidants with relatively slow reaction rates (such as permanganate) theoretically help mitigate back diffusion from low permeability media. However, rate of oxidant diffusion into these low permeability zones is typically extremely slow compared to the rate of reaction and thus the penetration distance is very limited. This would be exacerbated in the FDSA where SOD testing suggests that low permeability soils have high natural oxidant demand. To achieve effective distribution of an oxidant throughout a treatment zone and the essential contact of oxidant with target CVOCs, normally two or more active delivery events are required within the target treatment zone.

In-situ bioremediation (ISB) has promise to treat less accessible regions because some electron donors (emulsified vegetable oil, for example) can persist and diffuse into less permeable materials over time. ISB is a promising approach to manage the slow release of CVOCs from less transmissive regions because of the long-duration effects of ISB treatment. In fact, ISB may be well-suited for treating less permeable regions, given the low influxes of oxygen and other electron acceptors and the potential for electron donors to diffuse into these regions. ISCR is often implemented in combination with ISB. Combinations of zero valent iron (ZVI) with electron donors such as lactate or emulsified vegetable oil are commercially available and offer the potential for rapid chemical degradation of the most accessible contaminants (and other electron acceptors) combined with longer-lasting bioremediation. Addition of ZVI may result in sustained reductions in the oxidation-reduction potential (ORP) that can enhance subsequent anaerobic biodegradation. ISCR is also useful at sites where initial contaminant concentrations are too low to solely support a bioremediation approach (such as is likely the case at the Rowe Industries Superfund Site).

Both ISCR/ISB and ISCO approaches may be effective in remediation of CVOC-impacted groundwater at the Rowe Industries Superfund Site. However, based on the foregoing, the relatively low measured dissolved oxygen (DO) content of groundwater in the FDSA wells (generally less than 2 milligrams per liter [mg/L]) and high natural oxidant demand of the low permeability soils, it can be concluded that ISCO approaches would likely require a greater number of injection events (with greater associated costs) than ISCR/ISB approaches. Therefore, the recommended approach is implementation of ISCR/ISB to treat CVOC-impacted groundwater at the Rowe Industries Superfund Site.

4.1 RECOMMENDED REMEDIAL DESIGN

The ISCR/ISB injections will be implemented within the approximate 2,000 square foot area identified on Figure 6. The recommended vertical treatment zone would extend from approximately 16 feet below ground surface (bgs) to the top of the primary clay lens underlying the FDSA.

The recommended ZVI application rate is equivalent to approximately 0.2 weight percent with respect to soil within the treatment zone. Assuming a soil density of 100 pounds per cubic foot, this ZVI application rate equates to a ZVI mass of approximately 5,800 pounds. The accompanying carbon substrate would contain a mixture of glycerol, fatty acids, and a phosphate pH buffer. The carbon substrate would be mixed as a 15-weight percent solution with water to form approximately 5,800 gallons (i.e., 14,500 pounds). This volume is equivalent to approximately 10 percent of the target treatment pore space, assuming an effective aquifer porosity of 25 percent. These numbers may be modified based on further discussion with the remedial contractor and conditions encountered in the field.

The addition of ZVI to the carbon substrate provides a number of advantages for enhanced reductive dechlorination. The ZVI will provide an immediate reduction in oxidation-reduction potential. The carbon substrate will provide short-term and long-term nutrients to support anaerobic bacteria growth, which also assists in creating a reducing environment. In addition, the corrosion of iron metal yields ferrous iron and hydrogen, both of which are possible reducing agents. The hydrogen gas produced is also an excellent energy source for a wide variety of anaerobic bacteria.

The carbon substrate and ZVI would be delivered to the site separately and mixed with potable water and emplaced in the subsurface simultaneously. A small quantity of guar will likely also be supplied, which would assist in keeping the ZVI suspended during the mixing and injection process. The dilution factor (i.e., water content) can be adjusted to achieve optimal dispersion and distribution based on site-specific parameters such as injection point spacing, permeability of the formation, and contaminant concentrations.

A commercially-available enriched dechlorinating culture will be co-injected with these electron donors. The Dehalococcoides (Dhc) microbes present in the culture will facilitate complete dechlorination of PCE to non-toxic ethene. The culture is delivered to the site in sealed stainless-steel cylinders. Each cylinder is equipped with an inlet and outlet port. Nitrogen gas is connected to the inlet port and is used to force the culture solution into the injection line and evacuate the canister. The canister is also equipped with a sight glass that allows the field crew to monitor the amount of culture that has been injected. The culture will be premixed with the carbon substrate solution in holding tanks prior to injection or directly into the injection lines during the injection process. Approximately 5 liters of the Dhc culture will be injected, which should provide a desired bacterial population of 1×10^6 cells per liter within the treatment area.

Approximately 20 borings would be advanced on approximate 8-foot centers within the treatment area. Proposed injection locations are shown on Figure 6. The injections would be performed from the bottom of the borehole working upwards in 1 to 2-foot intervals to facilitate adequate vertical distribution of reagent. Each boring will be sealed at the completion of the injections using granular bentonite, and subsequently hydrated. It is estimated that the injections can be completed within a 4 to 5-day timeframe.

4.2 RECOMMENDED GROUNDWATER MONITORING PROGRAM

To evaluate the potential effectiveness of the recommended ISCR/ISB remedial actions, baseline and post-injection sampling of wells FRW-1 through FRW-4, MW98-05AR and MW-98-01 will include analysis of the following parameters: VOCs (Method 8260), sulfate (Method 300), ethene/ethane/methane (Method 8015), dissolved iron (Method 6010B/200.7), total organic carbon (TOC) (Method 9060), and nitrate+nitrite (Method

353.2). For data quality purposes, one field duplicate sample will be submitted for laboratory analysis of the parameters identified above. The field parameters DO, pH, ORP and temperature will also be analyzed in the field as part of each sampling event. Additionally, monitoring wells MW98-04 and MW-45A will be monitored for VOCs.

A baseline groundwater monitoring event is recommended to be conducted just prior to the ISCR/ISB injection event, to document ambient groundwater conditions within the groundwater treatment zone. Assuming a late-March, early-April injection schedule, the regular March semi-annual sampling event can serve as the baseline ground water monitoring event.

After completion of the ISCR/ISB injection event, groundwater monitoring described above will be conducted on a quarterly basis for 1 year (four sampling events), followed by 2 years of semi-annual monitoring (four additional sampling events), followed by annual groundwater monitoring thereafter. Wells MW-28A/B, 44A/B/C, 58A/B, 59A/B, 98-04B, 45B and N-32 and 32B will continue to be sampled on their regular annual monitoring schedule. The frequency of groundwater monitoring and scope of laboratory analyses may be modified during the course of the groundwater monitoring program in response to monitoring results and field observations. A report documenting the results of each monitoring event will be submitted to USEPA.

Following the injections, the FRWs will be turned off to prevent disruption of the anaerobic environment. The injections will disturb the current soil structure which may result in a temporary increase in PCE concentration in groundwater following the injections. Therefore, RW-2 will remain on and follow the current monitoring and operation schedule until post-injection monitoring confirms that PCE concentrations have stabilized.

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TABLES

TABLE 1

**GROUNDWATER REMEDIAL ACTION
FORMER ROWE INDUSTRIES SUPERFUND SITE
SAG HARBOR, NEW YORK**

Groundwater Elevation at Select Wells in the FDSA

Date	MW98-01A DTW (ft btoc)	MW98-01A GW Elevation (ft amsl)	MW98-04 DTW (ft btoc)	MW98-04 GW Elevation (ft amsl)	MW98-04 PCE Concentration (ug/l)	MW98-04B DTW (ft btoc)	MW98-04B GW Elevation (ft amsl)	MW98-05A DTW (ft btoc)	MW98-05A GW Elevation (ft amsl)	MW98-05AR DTW (ft btoc)	MW98-05AR GW Elevation (ft amsl)	MW98-05B DTW (ft btoc)	MW98-05B GW Elevation (ft amsl)	MW98-05BR DTW (ft btoc)	MW98-05BR GW Elevation (ft amsl)	MW-45A DTW (ft btoc)	MW-45A GW Elevation (ft amsl)	MW-45B DTW (ft btoc)	MW-45B GW Elevation (ft amsl)		
TOC Well Elev. (ft amsl)		30.47		28.00			27.94		29.70		29.26		30.01		29.76		27.44		27.63		
3/1/2003																19.41	8.03				
3/24/2003						ND															
4/15/2003						23											17.96	9.48			
9/1/2003																					
3/8/2004	20.85	9.62						20.15	9.55				20.45	9.56							
4/28/2004			18.74	9.26		--															
6/30/2004			19.88	8.12		--															
9/15/2004						ND															
9/20/2004	21.58	8.89	20.52	7.48		--			21.32	8.38			21.19	8.82			19.10	8.34			
3/14/2005			19.13	8.87	28												17.72	9.72			
4/7/2005			18.60	9.40		--											17.02	10.42			
4/28/2005			18.74	9.26		--											17.15	10.29			
5/17/2005						4.9															
6/16/2005						1.7															
8/17/2005						ND															
9/7/2005			21.10	6.90													19.50	7.94			
9/8/2005			21.14	6.86	ND												19.71	7.73			
12/8/2005						45															
3/6/2006						7.0											17.38	10.06			
3/15/2006			18.89	9.11		--											17.45	9.99			
5/30/2006																					
9/16/2006			18.62	9.38		--											17.09	10.35			
9/19/2006			18.45	9.55	ND												17.02	10.42			
3/6/2007			18.75	9.25	ND												17.28	10.16			
3/12/2007	19.82	10.65	18.75	9.25		--			16.12	13.58				19.02	10.99			17.33	10.11		
10/1/2007	21.65	8.82	19.55	8.45		--					dry				20.87	9.14			19.51	7.93	
10/3/2007				20.45	7.55	ND												19.26	8.18		
3/11/2008	21.40	9.07	21.42	6.58	18				20.60	9.10				20.33	9.68			18.91	8.53		
9/15/2008			21.52	6.48	20																
9/22/2008	22.57	7.90	21.49	6.51		--			21.78	7.92				22.39	7.62			20.17	7.27		
2/24/2009																		17.98	9.46		
3/18/2009	21.16	9.31	19.88	8.12	ND				20.53	9.17				20.90	9.11			18.47	8.97		
9/15/2009	21.29	9.18	20.18	7.82		--			20.52	9.18				21.12	8.89			18.80	8.64		
9/16/2009																		18.81	8.63		
3/9/2010	19.65	10.82	18.63	9.37		--			19.86	9.84				19.58	10.43			18.81	8.63		
3/16/2010																		16.71	10.73		
3/17/2010			18.21	9.79	0.68													16.71	10.73		
9/16/2010				20.56	7.44	ND												19.13	8.31		
9/22/2010	21.45	9.02	20.41	7.59		--			20.72	8.98				20.61	9.40			19.01	8.43		
3/8/2011	21.28	9.19	20.23	7.77	0.99				20.76	8.94				20.51	9.50			18.81	8.63		
9/11/2011																		19.80	7.64		
9/22/2011	22.33	8.14	20.23	7.77		--			21.75	7.95				21.54	8.47			19.79	7.65		
3/1/2012			21.18	6.82																	
3/22/2012	22.69	7.78	20.08	7.92	0.36				22.08	7.62				22.38	7.63						
9/4/2012	23.49	6.98	21.08	6.92		--			22.70	7.00				22.90	7.11						

TABLE 1

**GROUNDWATER REMEDIAL ACTION
FORMER ROWE INDUSTRIES SUPERFUND SITE
SAG HARBOR, NEW YORK**

Groundwater Elevation at Select Wells in the FDSA

Date	MW98-01A DTW (ft btoc)	MW98-01A GW Elevation (ft amsl)	MW98-04 DTW (ft btoc)	MW98-04 GW Elevation (ft amsl)	MW98-04 PCE Concentration (ug/l)	MW98-04B DTW (ft btoc)	MW98-04B GW Elevation (ft amsl)	MW98-05A DTW (ft btoc)	MW98-05A GW Elevation (ft amsl)	MW98-05AR DTW (ft btoc)	MW98-05AR GW Elevation (ft amsl)	MW98-05B DTW (ft btoc)	MW98-05B GW Elevation (ft amsl)	MW98-05BR DTW (ft btoc)	MW98-05BR GW Elevation (ft amsl)	MW-45A DTW (ft btoc)	MW-45A GW Elevation (ft amsl)	MW-45B DTW (ft btoc)	MW-45B GW Elevation (ft amsl)	
TOC Well Elev. (ft amsl)	30.47			28.00			27.94		29.70		29.26		30.01		29.76		27.44		27.63	
9/19/2012			21.22	6.78	8.8												21.21	6.23		
2/20/2013																				
3/19/2013			19.73	8.27	220												19.70	7.74		
3/20/2013																	19.70	7.74		
3/28/2013	22.24	8.23	19.84	8.16	--			21.44	8.26			21.90	8.11				19.83	7.61		
4/23/2013			20.14	7.86	310												20.05	7.39		
6/17/2013			19.60	8.40	36															
7/23/2013			20.22	7.78	2.7															
9/10/2013	22.49	7.98	20.10	7.90	6.6			21.90	7.80			21.70	8.31				20.01	7.43		
9/11/2013																	19.95	7.49		
11/26/2013			21.31	6.69	1.6															
3/17/2014	22.40	8.07	19.99	8.01	2.1			21.65				21.82					19.89	7.55		
9/9/2014			21.55	6.45	--															
9/15/2014																				
9/16/2014	23.33	7.14	20.40	7.60	7.1			22.62				22.41					20.80	6.64		
3/26/2015	21.00	9.47	18.65	9.35	21			20.46				19.22								
3/27/2015																				
9/8/2015	23.65	6.82	21.26	6.74	2.3			23.09				22.87					21.19	6.25		
9/11/2015																				
3/1/2016																				
3/21/2016	22.08	8.39	19.71	8.29	--	19.64	8.30			21.41	7.85			20.99	8.77	19.61	7.83	19.41	8.22	
3/22/2016			19.68	8.32	1.6												19.58	7.86	19.47	8.16
4/5/2016	22.16	8.31	19.52	8.48		19.50	8.44			21.32	7.94			20.87	8.89					
9/1/2016																	21.31	6.13		
9/14/2016			21.42	6.58	2.4															
9/26/2016	23.69	6.78	21.28	6.72	--	21.20	6.74			22.60	6.66			23.02	6.74	21.14	6.30	20.97	6.66	
3/13/2017	23.07	7.40	20.72			20.74				22.91	6.35			23.15	6.61					
3/27/2017	22.45	8.02	20.10	7.90	2.7	20.00	7.94			21.81	7.45			21.40	8.36	19.96	7.48	19.80	7.83	
9/18/2017	22.98	7.49	20.50	7.50	--	20.51	7.43			22.32	6.94			21.89	7.87	20.53	6.91	20.31	7.32	
9/19/2017			20.63	7.37	0.82															
10/4/2017			20.70	7.30	--	20.78	7.16									20.68	6.76	20.50	7.13	
11/1/2017	22.81	7.66	20.44	7.56	--	20.44	7.50			22.29	6.97			21.85	7.91	20.39	7.05	20.27	7.36	
12/18/2017			19.72	8.28	--	19.65	8.29									19.14	8.30	19.18	8.45	
1/17/2018			19.81	8.19	--	19.76	8.18									19.42	8.02	19.37	8.26	
2/9/2018			18.51	9.49	--	18.26	9.68									18.92	8.52	18.26	9.37	
3/1/2018			18.08	9.92		18.05	9.89									18.56	8.88	18.50	9.13	
3/29/2018	20.99	9.48	18.74	9.26		18.64	9.30			20.00	9.26			20.75	9.01	18.57	8.87	18.41	9.22	
4/2/2018			17.85	10.15		17.73	10.21									17.82	9.62	17.90	9.73	
4/12/2018	22.19	8.28	19.63	8.37		19.58	8.36			20.62	8.64			19.67	10.09					
4/18/2018	21.04	9.43	18.67	9.33		18.60	9.34			20.39	8.87			19.96	9.80					
5/15/2018			20.25	7.75		20.09	7.85									19.72	7.72	19.76	7.87	
6/19/2018	21.52	8.95	19.15	8.85		19.12	8.82									20.43	9.33	18.73	8.71	
8/28/2018			20.11	7.89		20.76	7.18									18.45	8.99	18.52	9.11	
9/17/2018	22.92	7.55	20.53	7.47		20.43	7.51			22.27	6.99			21.82	7.94	20.40	7.04	20.23	7.40	

Notes:

1. TOC = Top of well casing.
2. ft. amsl = feet above mean sea level

TABLE 2

**FORMER ROWE INDUSTRIES SUPERFUND SITE
1668 SAG HARBOR TURNPIKE
SAG HARBOR, NEW YORK**

UPDATE OF FDSA CHARACTERIZATION

Soil Sample Contaminant Concentrations

			VOCs (ppm or mg/kg)													Soil Oxidant Demand (SOD) II/						
			Sample Name and Collection Depth	Date	Low K ^{2/} /High K	Tetrachloroethylene	Trichloroethylene	cis-1,2-Dichloroethylene	Methylene chloride	Toluene	1,2,4 Trimethylbenzene	1,3,5 Trimethylbenzene	isopropylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	Methylcyclohexane	Acetone	TOC (mg/kg)	wet weight basis (mg/kg)	dry weight basis (mg/kg)	
MW-98-04B(24-27)	12/16/2015	high K	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	
SB1(20-23)	12/8/2015	high K	0.0032 J	ND	ND	ND	0.0100 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2,630	NA	NA	NA	
SB1(24-27)	12/8/2015	low K	ND	ND	ND	ND	0.0098 B,J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,950	NA	NA	NA	
SB2(20-23)	12/7/2015	high K	ND	ND	ND	ND	0.0054 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	
SB2(23-24)	12/7/2015	low K	ND	ND	ND	ND	0.0100 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	
SB2(24-27)	12/7/2015	high K	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	
SB3(20-23)	12/8/2015	high K	0.1500	0.0120	0.0160	0.0057 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	
SB3(24-27)	12/8/2015	high K	0.8300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
SB3(30-32)	12/8/2015	low K	ND	ND	ND	ND	0.0091 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	
SB4(20-23)	12/15/2015	high K	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
SB4(24-27)	12/15/2015	high K	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,040	NA	NA	NA
SB4(28-30)	12/15/2015	low K	ND	ND	ND	ND	ND	0.0064	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,780	NA	NA	NA	
SB5(20-23)	12/14/2015	high K	0.0076	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
SB5(24-27)	12/14/2015	high K	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
SB5(24-27)D	12/14/2015	high K	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
SB5(29-30)	12/14/2015	high K	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
SB5(32.5-33)	12/14/2015	low K	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
SB6(20-23)	12/9/2015	high K	ND	ND	ND	ND	0.0110	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
SB6(24-27)	12/9/2015	high K	ND	ND	ND	ND	0.0140	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,080	NA	NA	NA
SB6(32-33)	12/9/2015	low K	ND	ND	ND	ND	0.0120 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,000	NA	NA	NA
SB7(20-23)	12/11/2015	high K	0.0910	ND	ND	ND	0.0054 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
SB7(24-25)	12/11/2015	high K	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
SB7(27-30)	12/11/2015	low K	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
SB8(20-23)	12/14/2015	high K	ND	ND	ND	ND	0.0054 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
SB8(24-27)	12/14/2015	high K	0.0330	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,000	NA	NA	NA
SB8(27-30)	12/14/2015	low K	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,950	NA	NA	NA
SB9(20-23)	12/9/2015	high K	ND	ND	ND	ND	0.0079 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
SB9(24-27)	12/9/2015	high K	ND	ND	ND	ND	0.0130	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
SB9(24-27)D	12/9/2015	high K	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
SB9(27.5-28.5)	12/9/2015	low K	ND	ND	ND	ND	0.0120	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
SB10(20-23)	12/10/2015	high K	ND	ND	ND	ND	0.0067 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
SB10(24-27)	12/10/2015	high K	0.0045 J	ND	ND	ND	0.0052 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,000	NA	NA	NA
SB10(31.32.5)	12/10/2015	low K	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2,110	NA	NA	NA
SB11(20-23)	12/11/2015	high K	0.0270	ND	ND	ND	0.0045 J	0.0023 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
SB11(20-23)D	12/11/2015	high K	0.0031 J	ND	ND	ND	0.0054 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
SB11(24-27)	12/11/2015	high K	ND	ND	ND	ND	0.0076 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
SB11(27-29)	12/11/2015	low K	ND	ND	ND	ND	0.0090 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
SB12(20-23)	12/10/2015	high K	ND	ND	ND	ND	0.0062 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
SB12(24-27)	12/10/2015	high K	ND	ND	ND	ND	0.0110	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
SB12(30-31)	12/10/2015	low K	ND	ND	ND	ND	0.0066 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
SB13(22-23)	6/18/2018	high K	0.190	ND	ND	ND	0.0057 J, SCAL-E	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.022 SCAL-E	NA	2,318	2,573	
SB13(23-24)	6/18/2018	low K	630	0.920	ND	ND	ND	ND	0.640	1.50	1.30	0.290	1.10	0.340	18	ND	ND	ND	36,000	2,598	3,066	NA
SB14(23-24)	6/18/2018	high K	0.110	ND	ND	ND	0.0074 J, SCAL-E	ND	ND	0.0034 J	0.0026 J	ND	0.003 J	ND	ND	0.012 SCAL-E	ND	NA	NA	NA	NA	
SB14(26-28) ^{8/}	6/18/2018	high K	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8,400	46	51	NA
SB14(31-32)	6/18/2018	low K	ND	ND	ND	ND	0.0076 J, SCAL-E	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	2,427	2,981	NA	NA
SB15(26-28)	6/18/2018	high K	ND	ND	ND	ND	0.012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.025 SCAL-E	6,000	0	0	NA
SB15(31-32)	6/18/2018	low K	ND	ND	ND	ND	0.0056 J, SCAL-E	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.013 SCAL-E	NA	NA	NA	NA

TABLE 2

FORMER ROWE INDUSTRIES SUPERFUND SITE
1668 SAG HARBOR TURNPIKE
SAG HARBOR, NEW YORK

UPDATE OF FDSA CHARACTERIZATION

Soil Sample Contaminant Concentrations

Sample Name and Collection Depth	Date	Low K ^{2/} /High K	VOCs (ppm or mg/kg)												TOC (mg/kg)	Soil Oxidant Demand (SOD) 11/			
			Tetrachloroethylene	Trichloroethylene	cis-1,2-Dichloroethylene	Methylene chloride	Toluene	1,2,4 Trimethylbenzene	1,3,5 Trimethylbenzene	isopropylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	Methylcyclohexane		wet weight basis (mg/kg)	dry weight basis (mg/kg)		
SB16(29-30) ^{9/}	6/18/2018	high K	ND	ND	ND	0.0084 J, SCAL-E	ND	ND	ND	ND	ND	ND	ND	ND	0.020 SCAL-E	7,900	NA	NA	
SB16(30-32)	6/18/2018	low K	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.017 SCAL-E	NA	NA	NA	
SB17(26-27)	6/18/2018	high K	ND	ND	ND	0.0066 J, SCAL-E	ND	ND	ND	ND	ND	ND	ND	ND	0.029 SCAL-E	4,500	99	116	
SB17(29-31)	6/18/2018	high K	0.0041 J	ND	ND	0.0081 J, SCAL-E	ND	ND	ND	ND	ND	ND	ND	ND	0.029 SCAL-E	NA	NA	NA	
SB17(31-32)	6/18/2018	low K	ND	ND	ND	0.0077 J, SCAL-E	ND	ND	ND	ND	ND	ND	ND	ND	0.035 SCAL-E	NA	NA	NA	
SB18(26-28)	6/18/2018	high K	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.029 SCAL-E	13,000	448	538	
SB18(29-31)	6/18/2018	low K	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.029 SCAL-E	NA	14,333	17,199	
SB19(27-29)	6/18/2018	high K	0.650	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.3	ND	12,000	0	0
SB19(31-33)	6/18/2018	low K	ND	ND	ND	0.0065 J, SCAL-E	ND	ND	ND	ND	ND	ND	ND	ND	0.019 SCAL-E	NA	1,815	2,229	
Applicable or Relevant and Appropriate Requirements (ARARs) (ppm or mg/kg)			1.5	1.0	0.5	NE	1.5	NE	NE	NE	NE	NE	NE	NE	NE	N/A	N/A	N/A	
NYS DEC Unrestricted Use Soil Cleanup Objectives (ppm or mg/kg)			1.3	0.47	0.25	0.05	0.7	3.6	8.4	NE	12	3.9	NE	NE	0.05	NE	N/A	N/A	
NYS DEC Restricted Use Soil Cleanup Objectives (ppm or mg/kg)																			
Residential			5.5	10	59	51	100	47	47	NE	100	100	NE	NE	NE	NE	N/A	N/A	
Restricted-Residential			19	21	100	100	100	52	52	NE	100	100	NE	NE	NE	NE	N/A	N/A	
Commercial			150	200	500	500	500	190	190	NE	500	500	NE	NE	NE	NE	N/A	N/A	
Industrial			300	400	1000	1000	1000	380	380	NE	1,000	1,000	NE	NE	NE	NE	N/A	N/A	
Protection of Ecological Resources			2	2	NS	12	36	Note 10	Note 10	NE	Note 10	Note 10	NE	NE	NE	NE	N/A	N/A	
Protection of Groundwater			1.3	0.47	0.25	0.05	0.7	3.6	8.4	NE	12	3.9	10	NE	NE	NE	N/A	N/A	

Notes:

VOCs Volatile Organic Compounds

D Duplicate sample

(20-23) Represents sampling interval, feet below grade

K Hydraulic Conductivity

SB Soil Boring

PID Photoionization Detector

TOC Total Organic Carbon

ND Not Detected

ppmv Parts per million by volume

NA Not Analyzed

mg/kg Milligram per kilogram

NE Not Established

ppm Parts per million

A bold concentration indicates an exceedance of the ARARs and/or NYSDEC criteria.

* PID readings reported are for samples collected for laboratory analysis; all PID readings are indicated on the geologic logs. All significant measurements are summarized in this table. The indicated duplicate PID readings are from the second boring at that location.

1) Site specific ARARs for soil have also been established for the following compounds: Benzene, Xylenes, Ethylbenzene, Toluene, 1,1-Dichloroethane, TCA, and 1,1-DCE. However none of these compounds were detected in any of the soil samples collected.

2) High and Low K soils as determined by observation.

3) A "J" notation next to a concentration indicates a concentration detected below the reporting limit but greater than or equal to the method detection limit, the result is an estimated concentration.

4) A "CCV-E" notation next to a concentrations indicates that the value reported is estimated due to its behavior during calibration verification.

5) A "B" notation next to a concentration indicates that the analyte was found in the associated analysis batch blank. For VOCs, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as an artifact.

6) A "SCAL-E" notation next to a concentration indicates that the value reported is estimated because of its behavior during initial calibration (average Rf>20%).

7) In December 2015, the PID readings of 1083 ppmv and 822 ppmv were measured at depths of 24 to 25 ft bg and 25 to 29 ft bg, respectively.

8) The sample was diluted because of the presence of high levels of non-target analytes resulting in elevated reporting limits above the ARARs.

9) For this sample, the internal std associated with this target compound did not meet acceptance criteria (area < 50% CCV) at the stated dilution due to matrix effects. Sample was rerun to confirm matrix affects.

10) NS indicates not specified. Refer to the NYSDEC Technical Support Document (TSD)

11) The soil oxidant demand testing was completed using the "Permanganate Natural Oxidant Demand of Soil and Aquifer Solids" test method pursuant to ASTM D7262

TABLE 3

**FORMER ROWE INDUSTRIES SUPERFUND SITE
1668 SAG HARBOR TURNPIKE
SAG HARBOR, NEW YORK**

UPDATED FD&A CHARACTERIZATION

Groundwater Geochemical Results - 2003-2018

Well ID	Date Sampled	Geochemical parameters ^{1/}												
		Dissolved Oxygen (DO) mg/L	Oxidation Reduction Potential (ORP) (mV)	Total Iron	Dissolved Iron	Ferrous Iron	Sulfate as SO ₄	Sulfide	Nitrate as N	Nitrite as N	TOC	Methane	Ethane	Ethene
MW98-01A	9/15/2004	5.50	267	676	535	ND<25	10,500	ND<1	NA	NA	1,080	NA	NA	NA
	1/13/2005	0.00	149	266	45.7	ND<25	12,800	ND<1	NA	NA	1,130	NA	NA	NA
	6/19/2018	0.60	-87	2,980	3,050	1,500 ^{2/}	9,150	530	NA	NA	962 J	ND<2.20	ND<5.00	ND<5.00
MW98-04	8/17/2005	5.85	261	NA	NA	NA	NA	NA	NA	NA	ND<1,000	NA	NA	NA
	9/8/2005	6.88	225	159	ND<20	ND<25	14,200	ND<1,000	NA	NA	ND<1,000	NA	ND<3.00	ND<4.00
	12/8/2005	4.76	1	5,730	1,750	1,240	NA	NA	NA	Geo	5,700	ND<1.10	NA	NA
	6/19/2018	1.51	77	8,700	687	2,000 ^{2/}	12,200	ND<500	NA	NA	942 J	ND<2.20	ND<5.00	ND<5.00
MW98-05A	9/15/2004	1.51	155	404	99	ND<25	12,400	ND<1,000	NA	NA	1,660	4.9	ND<3.00	ND<4.00
	1/13/2005	0.00	-81	28,000	26,400	12,800	6,300	ND<1,000	NA	NA	53,400	NA	NA	NA
MW-98-05BR	6/19/2018	0.87	101	608	120 J	NA	16,000	ND<500	NA	NA	1,740	ND<2.20	ND<5.00	ND<5.00
FRW-1	3/14/2005	7.66	17	8,550	6,420	2,940	9,000	NA	NA	NA	11,000	NA	NA	NA
	5/17/2005	3.30	143	3,480	14,410	276	11,800	NA	NA	NA	3,300	NA	ND<3.00	ND<4.00
	6/16/2005	3.98	31	3,850	2,020	ND<25	11,600	NA	NA	NA	2,100	NA	ND<3.00	ND<4.00
	9/8/2005	7.46	-26	8,940	6,870	934	7,800	NA	NA	NA	5,380	NA	ND<3.00	ND<4.00
	12/8/2005	1.10	-23	28,140	157	49	NA	NA	NA	NA	1,800	NA	NA	NA
	8/21/2012	NA	NA	38,800	25	NA	69,300	NA	206	NA	8,940	NA	NA	NA
	9/4/2012	NA	NA	4,200	ND<10	NA	6,400	NA	210	NA	2,400	NA	NA	NA
	9/19/2012	1.62	-69	11,300	6,980	NA	6,000	NA	ND<500	NA	3,100	NA	NA	NA
	7/2/2018	NA	NA	NA	NA	NA	NA	870	ND<500	NA	NA	NA	NA	NA
FRW-2	9/15/2004	6.35	-5	12,600	426	NA	5,100	NA	NA	NA	NA	NA	ND<3.00	ND<4.00
	1/13/2005	6.65	3	117,000	114,000	NA	4,700	NA	NA	NA	NA	NA	5.9	7.1
	3/14/2005	6.71	29	150,000	127,000	NA	3,500	NA	NA	NA	NA	NA	ND<3.00	ND<4.00
	5/17/2005	4.10	96	82,700	62,900	NA	7,500	NA	NA	NA	NA	NA	ND<3.00	ND<4.00
	6/16/2005	3.91	-72	72,900	53,700	NA	3,600	NA	NA	NA	NA	NA	ND<3.00	ND<4.00
	9/8/2005	0.43	-116	77,100	25,900	NA	4,900	NA	NA	NA	NA	NA	ND<3.00	ND<4.00
	12/8/2005	0.73	-10	39,600	16,600	NA	NA	NA	NA	NA	4,900	NA	NA	NA
	8/21/2012	NA	NA	26,300	ND<10	NA	3,550	NA	ND<500	NA	2,160	NA	NA	NA
	9/4/2012	NA	NA	16,500	ND<10	NA	2,740	NA	189	NA	1,560	NA	NA	NA
FRW-3	9/19/2012	0.60	64	73,900	14	NA	3,460	NA	ND<500	NA	NA	NA	NA	NA
	7/2/2018	NA	NA	NA	NA	NA	NA	82	ND<500	NA	NA	NA	NA	NA
	9/15/2004	6.22	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<3.00	ND<4.00
	3/14/2005	4.20	-66	149,000	74,900	NA	6,400	NA	NA	NA	307,000	NA	ND<3.00	ND<4.00
	5/17/2005	0.30	101	74,100	36,700	NA	15,900	NA	NA	NA	68,000	NA	ND<3.00	ND<4.00
	6/16/2005	2.64	-84	55,900	18,300	NA	10,900	NA	NA	NA	39,000	NA	ND<3.00	ND<4.00
	9/8/2005	1.20	-113	128,000	11,000	NA	2,800	NA	NA	NA	144,000	NA	ND<3.00	ND<4.00
	12/8/2005	0.37	-2	35,200	8,720	NA	NA	NA	NA	NA	2,100	NA	NA	NA
	8/21/2012	NA	NA	27,900	ND<10	NA	9,300	NA	ND<500	NA	5,060	NA	NA	NA
FRW-4 ^{3/}	9/4/2012	NA	NA	16,000	ND<10	NA	3,540	NA	210	NA	1,330	NA	NA	NA
	9/19/2012	0.36	-59	24,100	ND<10	NA	4,150	NA	ND<500	NA	1,480	NA	NA	NA
	7/2/2018	NA	NA	NA	NA	NA	NA	NA	1,020	ND<500	NA	NA	NA	NA
	5/17/2005	0.70	124	20,300	5,190	1,900	11,400	ND<1,000	NA	NA	7,300	NA	ND<3.00	ND<4.00
	6/16/2005	2.51	-34	15,500	15,900	2,010	13,200	ND<1,000	NA	NA	9,000	NA	ND<3.00	ND<4.00
	8/17/2005	4.51	-22	NA	NA	NA	NA	NA	NA	NA	3,800	NA	NA	NA
	9/8/2005	0.28	7	15,700	7,530	884	11,200	ND<1,000	NA	NA	6,690	NA	ND<3.00	ND<4.00
	12/8/2005	0.39	10	10,500	696	629	NA	NA	NA	NA	2,100	NA	NA	NA

Notes:

NA Not Analyzed

ND Not Detected

J Results are estimated because concentrations were detected above the method detection limit but below the reporting limit.

1 Results are reported in ug/L unless otherwise specified.

2 Ferrous Iron Samples were collected on June 20, 2018.

3 Geochemical parameters were not collected for FRW-4 in 2018.

TABLE 4
FORMER ROWE INDUSTRIES SUPERFUND SITE
1668 SAG HARBOR TURNPIKE
SAG HARBOR, NEW YORK

Updated FDSA Characterization - Groundwater VOC Results for Select Monitor Wells (ug/l)

Well ID	Date Sampled	Analyte								
		PCE	TCE	cis-1,2-DCE	1,1,1-TCA	VC	1,1-DCA	1,2-DCA	1,1-DCE	CA
ARARs	5	5	5	5	2 ^{1/}	5	0.6 ^{1/}	5	5 ^{1/}	
MW-45A	3/19/2013	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	4/23/2013	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/11/2013	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/18/2014	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/16/2014	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	5/1/2015	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/10/2015	0.91	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/22/2016	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/14/2016	2.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/27/2017	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/20/2017	0.41 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/29/2018	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/18/2018	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
MW-45B	4/23/2013	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/11/2013	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/18/2014	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/16/2014	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	5/2/2015	0.25 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/10/2015	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/22/2016	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/14/2016	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/27/2017	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/20/2017	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
MW-98-01A	3/29/2018	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/18/2018	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/20/2013	48	0.85	0.57	2.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/12/2013	35	0.27 J	0.79	1.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/19/2014	3.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/15/2014	3.8	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/25/2015	24	ND<0.5	ND<0.5	0.57	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/8/2015	4.9	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/23/2016	2.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/14/2016	0.91	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/29/2017	7.3	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/18/2017	3.7	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/29/2018	18	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	6/19/2018 ^{2/}	0.77 J	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0
	9/17/2018	6.87	0.28	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5

TABLE 4
FORMER ROWE INDUSTRIES SUPERFUND SITE
1668 SAG HARBOR TURNPIKE
SAG HARBOR, NEW YORK

Updated FDSA Characterization - Groundwater VOC Results for Select Monitor Wells (ug/l)

Well ID	Date Sampled	Analyte								
		PCE	TCE	cis-1,2-DCE	1,1,1-TCA	VC	1,1-DCA	1,2-DCA	1,1-DCE	CA
ARARs	5	5	5	5	2 ^{1/}	5	0.6 ^{1/}	5	5 ^{1/}	
MW-98-04	3/19/2013	210	31	68	3.8	ND<0.5	0.64	ND<0.5	ND<0.5	ND<0.5
	4/23/2013	310	8.5	7	4.2	ND<0.5	0.37 J	ND<0.5	ND<0.5	ND<0.5
	6/17/2013	36	0.85	1.1	0.45 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	7/23/2013	2.7	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/10/2013	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	11/26/2013	1.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/18/2014	2.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/16/2014	7.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/26/2015	21	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/8/2015	2.3	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	2/17/2016	8.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/22/2016	1.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/14/2016	2.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/27/2017	2.7	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/19/2017	0.82	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/29/2018	29	0.27 J	ND<0.5	0.22 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	6/19/2018 ^{2/}	2.2	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0
	9/18/2018	2.63	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
MW-98-04B	2/17/2016	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/22/2016	2.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/14/2016	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/27/2017	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/19/2017	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/29/2018	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/19/2018	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
MW-98-05A	2/20/2013	35	8.5	56	0.69	2.2	0.6	ND<0.5	ND<0.5	ND<0.5
	3/20/2013	17	2.0	59	0.54	2.3	0.9	ND<0.5	ND<0.5	ND<0.5
	4/23/2013	8.4	3.7	160	0.67	ND<0.5	1.4	ND<0.5	0.14 J	ND<0.5
	9/12/2013	110	23	120	1.4	3.6	0.53	ND<0.5	ND<0.5	ND<0.5
	3/19/2014	25	3.9	32	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/15/2014	22	1.9	2.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/25/2015	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/8/2015	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	2/17/2016	40	0.33 J	ND<0.5	0.22 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
MW-98-05AR	3/23/2016	17	0.53	0.32 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/14/2016	19	0.75	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/29/2017	34	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/18/2017	35	0.58	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/29/2018	73	1.1	1.2	0.38 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/17/2018	18	1.03	5.09	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5

TABLE 4
FORMER ROWE INDUSTRIES SUPERFUND SITE
1668 SAG HARBOR TURNPIKE
SAG HARBOR, NEW YORK

Updated FDSA Characterization - Groundwater VOC Results for Select Monitor Wells (ug/l)

Well ID	Date Sampled	Analyte								
		PCE	TCE	cis-1,2-DCE	1,1,1-TCA	VC	1,1-DCA	1,2-DCA	1,1-DCE	CA
ARARs	5	5	5	5	2 ^{1/}	5	0.6 ^{1/}	5	5 ^{1/}	
MW-98-05B	2/20/2013	0.59	0.48 J	0.42 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/20/2013	0.17 J	0.26 J	0.59	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	4/23/2013	0.3 J	0.75	0.49 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/12/2013	ND<0.5	ND<0.5	0.43 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/19/2014	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/15/2014	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/25/2015	23	6.1	28	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/8/2015	25	2.0	1.1	0.23 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
MW-98-05BR	2/17/2016	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/23/2016	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/14/2016	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/29/2017	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/18/2017	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/29/2018	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	6/19/2018 ^{2/3/}	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0
	9/17/2018	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5

Notes

- ARARs** Applicable Relevant and Appropriate Requirements for aquifer restoration established for the Site.
- PCE** Tetrachloroethylene
- TCE** Trichloroethylene
- cis-1,2-DCE** cis-1,2-Dichloroethylene
- 1,1,1-TCA** 1,1,1-Trichloroethane
- VC** Vinyl Chloride
- 1,1-DCA** 1,1-Dichloroethane
- 1,2-DCA** 1,2-Dichloroethane
- 1,1-DCE** 1,1-Dichloroethylene
- CA** Chloroethane
- NE** Not Established
- ND** Not detected above laboratory reporting limit.
- J** Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
- B** Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.

Notes: ^{1/} The NYSDEC ambient water quality standards for these compounds are presented because site-specific ARARs for these compounds were not established.

^{2/} The June 2018 laboratory analyses were completed by Eurofins Spectrum Analytical because they could also complete some of the non-VOC geochemical parameters that our normal laboratory, York Analytical Laboratories, Inc., could not complete.

^{3/} During the June 2018 groundwater sampling event, MW98-05BR was mistakenly sampled instead of MW98-05AR.

TABLE 5
FORMER ROWE INDUSTRIES SUPERFUND SITE
1668 SAG HARBOR TURNPIKE
SAG HARBOR, NEW YORK

Updated FDSA Characterization - Groundwater VOC Results for Focused Recovery Wells (ug/l)

Well ID	Date Sampled	Analyte								
		PCE	TCE	cis-1,2-DCE	1,1,1-TCA	VC	1,1-DCA	1,2-DCA	1,1-DCE	CA
ARARs	5	5	5	5	2 ^{1/}	5	0.6 ^{1/}	5	5 ^{1/}	
FRW-1	1/9/2013	120	1.9	1.7	1.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	2/20/2013	1,100	25	15	17	0.48 J	1.6	ND<0.5	ND<0.5	ND<0.5
	20-Mar-13 ^{2/}	510	48	110	7.1	3.0	1.4	ND<0.5	ND<0.5	ND<0.5
	4/23/2013	360	42	290	4.4	9.5	2.0	ND<0.5	ND<0.5	ND<0.5
	5/20/2013	210	36	180	6.2	20	2.4	ND<0.5	0.67	ND<0.5
	6/12/2013	100	3.1	6.1	1.8	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	6/17/2013	310	4.8	8.7	3.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	7/23/2013	77	6.2	27	0.52	ND<0.5	0.22	ND<0.5	ND<0.5	ND<0.5
	8/20/2013	21	11	21	ND<0.5	ND<0.5	0.25 J	ND<0.5	ND<0.5	ND<0.5
	9/11/2013	42	4.1	110	0.58	0.73	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	10/24/2013	48	2.1	10	0.37 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	11/26/2013	63	4.4	11	1.3	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	12/16/2013	48	5.8	6.3	0.81	ND<0.5	0.22 J	ND<0.5	ND<0.5	ND<0.5
	1/28/2014	78	1.8	4.6	1.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	2/27/2014	280	12	22	3.9	ND<0.5	0.30 J	ND<0.5	ND<0.5	ND<0.5
	3/17/2014	74	2.1	8.6	0.37 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	4/8/2014	130	2.4	5.6	2.8	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	5/8/2014	66	2.5	4.2	0.95	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	6/17/2014	37	6.3	4.5	0.37 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	7/24/2014	9.9	0.63	18	0.28 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/21/2014	29	0.52	0.31 J	0.35 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/15/2014	24	1.5	12	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	10/14/2014	41	0.84	0.46 J	0.62	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	11/13/2014	17	3.2	2.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	12/9/2014	120 B	3.4	5.8	1.8	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	1/22/2015	180	6.6	23	1.9 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	2/17/2015	75	2.3	4.8	0.94	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/27/2015	210	1.3	1.2	2.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	4/1/2015	140	0.84	1.1	1.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	5/1/2015	34	0.49 J	1.4	0.43 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	6/3/2015	23	0.89	1.9	0.47 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	7/1/2015	37	1.2	1.6	0.37 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/10/2015	21	0.59	1.2	0.24 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/11/2015	15	0.54	1.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	10/5/2015	50	0.69	0.38 J	0.65	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	11/5/2015	53	3.6	29	0.78	0.76	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	12/3/2015	24	2.5	37	0.34 J	0.96	0.32 J	ND<0.5	ND<0.5	ND<0.5
	1/6/2016	170	1.8	3.2	2.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	2/1/2016	67	5.3	5.9	0.28 J	0.30 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/1/2016	290	3.8	7.9	2.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	4/5/2016	140	4.0	7.9	1.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	5/2/2016	78	2.8	5.7	0.74	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	6/7/2016	57 J	1.6	3.0	0.43 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	7/7/2016	40	0.95	0.75	0.30 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/2/2016	22	0.75	1.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/1/2016	25	0.81	1.6	0.20 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	10/17/2016	29	2.6	8.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	11/14/2016	64	5.4	38	0.84	0.41 J	0.28 J	ND<0.5	ND<0.5	ND<0.5
	12/16/2016	58	0.54	1.9	0.51	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	1/9/2017	120	1.9	1.7	1.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	2/2/2017	460	8.5	20	3.5	ND<0.5	0.59	ND<0.5	ND<0.5	ND<0.5
	3/1/2017	110	3.9	6.3	0.82	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	4/7/2017	240	3.8	2.2	2.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	5/3/2017	200	2.0	2.3	2.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	6/1/2017	94	2.5	4.5	0.55	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	7/6/2017	3.6	ND<0.5	1.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5

TABLE 5
FORMER ROWE INDUSTRIES SUPERFUND SITE
1668 SAG HARBOR TURNPIKE
SAG HARBOR, NEW YORK

Updated FDSA Characterization - Groundwater VOC Results for Focused Recovery Wells (ug/l)

Well ID	Date Sampled	Analyte							
		PCE	TCE	cis-1,2-DCE	1,1-TCA	VC	1,1-DCA	1,2-DCA	1,1-DCE
ARARs	5	5	5	5	2 ^{1/}	5	0.6 ^{1/}	5	5 ^{1/}
FRW-1 Cont'd	8/1/2017	16	0.41 J	0.44 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/5/2017	34	0.93	2.9	0.22 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	10/4/2017	56	1.7	7.8	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	11/1/2017	72	1.3	1.7	0.37 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	12/5/2017	55	1.5	3.4	0.40 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	2/1/2018	63	7.4	28	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/1/2018	110	2.7	1.8	1.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	4/2/2018	83	0.31 J	ND<0.5	0.25 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	5/2/2018	97	0.86	0.46 J	0.75	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	6/20/2018	25	0.76	0.68	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	7/2/2018	22	0.66	0.60	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/28/2018	7	4.10	9.10	ND<0.5	0.22	ND<0.5	ND<0.5	ND<0.5
	9/21/2018	20	1.25	2.43	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
FRW-2	1/9/2013	27	6.4	7.3	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	2/20/2013	9.1	1.7	70	0.37 J	2.1	0.31 J	ND<0.5	ND<0.5
	3/20/2013	6.8	1.2	69	0.27 J	9.1	0.39 J	ND<0.5	ND<0.5
	4/23/2013	4.0	1.4	47	0.16 J	7.9	0.6	ND<0.5	ND<0.5
	5/20/2013	6.0	2.4	49	0.20 J	7.2	1.1	ND<0.5	ND<0.5
	6/12/2013	45	2.7	22	0.35 J	3.1	1.3	ND<0.5	ND<0.5
	6/17/2013	210	9.8	14	1.7	1.0	0.7	ND<0.5	ND<0.5
	7/23/2013	28	3.1	17	ND<0.5	2.2	ND<0.5	ND<0.5	ND<0.5
	8/20/2013	36	1.7	2.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/11/2013	20	2.2	160	0.47 J	5.0	0.23 J	ND<0.5	0.20 J
	10/24/2013	35	5.4	7.0	ND<0.5	2.7	ND<0.5	ND<0.5	ND<0.5
	11/26/2013	39	6.0	16	0.20 J	0.62	ND<0.5	ND<0.5	ND<0.5
	12/16/2013	24	3.2	4.7	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	1/28/2014	46	3.1	3.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	2/27/2014	64	3.8	19	0.22 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/17/2014	11	1.9	15	ND<0.5	0.96	ND<0.5	ND<0.5	ND<0.5
	4/8/2014	46	3.3	25	ND<0.5	1.0	ND<0.5	ND<0.5	ND<0.5
	5/8/2014	10	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	6/17/2014	27	0.86	0.34 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	7/24/2014	13	1.2	5.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/21/2014	15	0.23 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/15/2014	19	2.8	15	ND<0.5	0.81	ND<0.5	ND<0.5	ND<0.5
	10/14/2014	29	1.5	0.46 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	11/13/2014	25	3.8	0.94	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	12/9/2014	63	2.1	0.77	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	1/22/2015	36	2.4	6.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	2/17/2015	33	0.77	0.22 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/27/2015	110	13	81	1.2	0.89	ND<0.5	ND<0.5	ND<0.5
	4/1/2015	140	8.0	8.6	0.62	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	5/1/2015	23	0.64	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	6/3/2015	9.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	7/1/2015	24	0.83	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/10/2015	22	0.53	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/11/2015	14	1.1	0.35 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	10/5/2015	29	1.4	0.30 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	11/5/2015	49	4.2	3.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	12/3/2015	37	8.1	34	ND<0.5	0.83	ND<0.5	ND<0.5	ND<0.5
	1/6/2016	53	4.3	2.3	ND<0.5	0.21 J	ND<0.5	ND<0.5	ND<0.5
	2/1/2016	280	3.3	5.2	3.3	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/1/2016	55	1.8	1.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	4/5/2016	32	0.72	0.31 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	5/2/2016	16	0.39 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	6/7/2016	39	5.7	2.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	7/7/2016	21	1.4	0.30 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/2/2016	22	1.0	0.55	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/1/2016	26	1.2	0.39 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5

TABLE 5
FORMER ROWE INDUSTRIES SUPERFUND SITE
1668 SAG HARBOR TURNPIKE
SAG HARBOR, NEW YORK

Updated FDSA Characterization - Groundwater VOC Results for Focused Recovery Wells (ug/l)

Well ID	Date Sampled	Analyte								
		PCE	TCE	cis-1,2-DCE	1,1,1-TCA	VC	1,1-DCA	1,2-DCA	1,1-DCE	CA
	ARARs	5	5	5	5	2 ^{1/}	5	0.6 ^{1/}	5	5 ^{1/}
FRW-2 Cont'd	10/17/2016	3.1	2.7	41	ND<0.5	4.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	11/14/2016	19	6.5	19	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	12/16/2016	32	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	1/9/2017	27	6.4	7.3	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	2/2/2017	100	10	39	0.63	1.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/1/2017	40	1.0	0.52	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	4/7/2017	93	2.6	1.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	5/3/2017	68	11	9.3	0.35 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	6/1/2017	16	1.0	0.92	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	7/6/2017	0.57	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/1/2017	7.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/5/2017	33	0.85	0.59	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	10/4/2017	50	2.7	0.91	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	11/1/2017	45	0.76	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	12/5/2017	38	3.4	1.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	2/1/2018	37	3.2	1.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/1/2018	48	0.7	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	4/2/2018	140	1.2	0.36 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	5/2/2018	29	0.92	0.29 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	6/20/2018	3.8	1.4	0.44 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	7/2/2018	3.8	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/28/2018	ND<0.5	0.30	29	ND<0.5	2.48	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/21/2018	11.9	1.83	14.5	ND<0.5	0.73	ND<0.5	ND<0.5	ND<0.5	ND<0.5
FRW-3	1/9/2013	53	5.1	17	0.40 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	2/20/2013	35	7.7	69	0.47 J	5.4	0.6	ND<0.5	ND<0.5	ND<0.5
	3/20/2013	25	7.8	120	0.71	3.4	1.3	ND<0.5	0.14 J	ND<0.5
	4/23/2013	1.3	0.31 J	370	0.56	ND<0.5	3.6	ND<0.5	0.35 J	ND<0.5
	5/20/2013	1.4	0.25 J	320	ND<0.5	9.2	5	ND<0.5	0.29 J	0.68
	6/12/2013	9.9	6.9	46	1.3	0.93	1.4	ND<0.5	ND<0.5	ND<0.5
	6/17/2013	230	18	70	3.6	5.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	7/23/2013	52	9.6	35	0.42 J	2.4	0.28 J	ND<0.5	ND<0.5	ND<0.5
	8/20/2013	12	1.7	8.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/11/2013	27	3.1	21	0.23 J	2.5	0.30 J	ND<0.5	ND<0.5	ND<0.5
	10/24/2013	18	1.9	13	ND<0.5	0.8	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	11/26/2013	23	3.6	10	ND<0.5	1.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	12/16/2013	13	1.0	8.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	1/28/2014	31	4.7	14	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	2/27/2014	31	8.1	75	0.7	ND<0.5	0.34 J	ND<0.5	ND<0.5	ND<0.5
	3/17/2014	49	8.0	37	0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	4/8/2014	110	7.7	30	0.33 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	5/8/2014	51	1.5	3.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	6/17/2014	32	7.9	13	ND<0.5	0.92	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	7/24/2014	30	3.3	4.9	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/21/2014	43	2.3	1.3	0.36 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/15/2014	33	5.6	27	0.28 J	0.38 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	10/14/2014	8.0	1.6	1.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	11/13/2014	9.7	2.7	2.7	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	12/9/2014	35 B	2.5	2	0.26 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	1/22/2015	84	14	77	1.4 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	2/17/2015	73	7.4	29	0.83	0.28 J	ND<0.5	0.35 J	ND<0.5	ND<0.5
	3/27/2015	41	2.6	13	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	4/1/2015	190	7.1	21	1.8	0.33	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	5/1/2015	89	3.9	5.3	0.87	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	6/3/2015	67	3.2	5.1	0.58	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	7/1/2015	57	4.2	4	0.23 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/10/2015	12	2.2	1.9	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/11/2015	7.7	2.5	10	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	10/5/2015	24	1.6	1.3	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	11/5/2015	30	3.6	49	0.30 J	0.41 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5

TABLE 5
FORMER ROWE INDUSTRIES SUPERFUND SITE
1668 SAG HARBOR TURNPIKE
SAG HARBOR, NEW YORK

Updated FDSA Characterization - Groundwater VOC Results for Focused Recovery Wells (ug/l)

Well ID	Date Sampled	Analyte								
		PCE	TCE	cis-1,2-DCE	1,1,1-TCA	VC	1,1-DCA	1,2-DCA	1,1-DCE	CA
	ARARs	5	5	5	5	2 ^{1/}	5	0.6 ^{1/}	5	5 ^{1/}
FRW-3 Cont'd	12/3/2015	34	3.8	96	0.38 J	0.7	0.29 J	ND<0.5	ND<0.5	ND<0.5
	1/6/2016	34	3.1	15	0.34 J	0.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	2/1/2016	50	4.1	23	0.23 J	1.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/1/2016	62	7.1	29	ND<0.5	0.62	0.30 J	ND<0.5	ND<0.5	ND<0.5
	4/5/2016	43	2.5	24	ND<0.5	0.27 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	5/2/2016	150	7.3	17	0.52	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	6/7/2016	54	4.8	7.8	0.29 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	7/7/2016	15	1.7	2.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/2/2016	8.1	0.7	1.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/1/2016	17	1.4	2.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	10/17/2016	9.0	2.4	23	ND<0.5	1.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	11/14/2016	79	5.6	14	0.67	0.48 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	12/16/2016	24	4.1	16	ND<0.5	0.42 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	1/9/2017	53	5.1	17	0.40 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	2/2/2017	18	3.7	24	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/1/2017	50	5.7	20	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	4/7/2017	65	5.0	41	ND<0.5	1.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	5/11/2017	130	5.8	8.5	0.35 J	0.24 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	6/1/2017	83	5.8	12	ND<0.5	0.37 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	7/6/2017	3.4	0.7	1.8	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/1/2017	35	1.9	1.9	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/5/2017	15	1.7	6.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	10/4/2017	21	6.0	15	ND<0.5	1.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	11/1/2017	17	1.2	3.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	12/5/2017	37	1.8	2.3	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	2/1/2018	22	2.0	3.3	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/1/2018	120	7.9	18	0.65	ND<0.5	0.26 J	ND<0.5	ND<0.5	ND<0.5
	4/2/2018	170	4.5	0.2 J	0.71	0.25 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	5/2/2018	140	9.4	11	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	6/20/2018	39	6.8	4.3	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	7/2/2018	49	1.4	1.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/28/2018	6.2	1.0	20.3	ND<0.5	0.84	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/21/2018	19.6	3.0	19.8	ND<0.5	2.04	ND<0.5	ND<0.5	ND<0.5	ND<0.5
FRW-4	1/9/2013	16	1.8	6.4	0.27 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	2/20/2013	15	1.9	2.4	0.72	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/20/2013	62	8.8	43	2.4	0.10 J	1.9	ND<0.5	ND<0.5	ND<0.5
	4/23/2013	82	11	39	2.7	ND<0.5	1.7	ND<0.5	ND<0.5	ND<0.5
	5/20/2013	47	13	22	3.5	ND<0.5	1.4	ND<0.5	ND<0.5	ND<0.5
	6/12/2013	25	7.5	9.3	0.99	ND<0.5	0.49 J	ND<0.5	ND<0.5	ND<0.5
	6/17/2013	12	2.1	3.0	0.22 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	7/23/2013	27	4.9	4.9	0.69	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/20/2013	6.1	0.76	1.7	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/11/2013	19	2.7	4.1	0.34 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	10/24/2013	10	2.1	5.7	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	11/26/2013	4.1	1.6	7.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	12/16/2013	4.9	0.78	6.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	1/28/2014	8.9	1.1	6.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	2/27/2014	6.2	1.0	3.7	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/17/2014	7.5	1.7	1.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	4/8/2014	17	1.8	3.3	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	5/8/2014	2.2	0.29 J	0.57	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	6/17/2014	21	1.7	4.3	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	7/24/2014	8.2	1.2	6.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/21/2014	4.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/15/2014	28	1.2	11	0.52	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	10/14/2014	2.8	0.55	0.7	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	11/13/2014	3.8	0.97	1.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	12/9/2014	3.7	0.36 J	2.9	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	1/22/2015	46	3.6	7.8	0.9 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	2/17/2015	8.6	0.57	0.72	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/27/2015	34	2.1	3.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	4/1/2015	9.4	0.66	1.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	5/1/2015	5.1	0.29 J	0.48 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5

TABLE 5
FORMER ROWE INDUSTRIES SUPERFUND SITE
1668 SAG HARBOR TURNPIKE
SAG HARBOR, NEW YORK

Updated FDSA Characterization - Groundwater VOC Results for Focused Recovery Wells (ug/l)

Well ID	Date Sampled	Analyte								
		PCE	TCE	cis-1,2-DCE	1,1,1-TCA	VC	1,1-DCA	1,2-DCA	1,1-DCE	CA
ARARs	5	5	5	5	2 ^{1/}	5	0.6 ^{1/}	5	5 ^{1/}	
FRW-4	6/3/2015	3.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Cont'd	7/1/2015	15	2.4	1.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/10/2015	6.5	0.49 J	0.64	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/11/2015	1.4	ND<0.5	0.61	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	10/5/2015	2.7	ND<0.5	1.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	11/5/2015	0.87	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	12/3/2015	2.7	ND<0.5	0.28 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	1/6/2016	2.4	0.37 J	7.9	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	2/1/2016	5.0	0.68	4.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/1/2016	15	1.1	5.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	4/5/2016	11	0.7	3.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	5/2/2016	6.7	0.82	1.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	6/7/2016	8.5	0.91	1.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	7/7/2016	7.5	0.78	1.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/2/2016	3.5	0.5	2.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/1/2016	2.2	0.48 J	3.8	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	10/17/2016	1.6	0.47 J	4.7	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	11/14/2016	1.9	2.1	29	ND<0.5	0.33 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	12/16/2016	2.0	0.5	7.8	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	1/9/2017	16	1.8	6.4	0.27 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	2/2/2017	5.1	1.4	17	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/1/2017	4.0	0.6	2.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	4/7/2017	7.6	1.2	2.9	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	5/3/2017	40	3.5	15	0.42 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	6/1/2017	8.8	0.5	2.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	7/6/2017	0.27 J	ND<0.5	0.28 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/1/2017	0.8	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/5/2017	2.7	0.42 J	0.51	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	10/4/2017	9.8	3.9	4.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	11/1/2017	3.0	0.32 J	0.78	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	12/5/2017	5.1	ND<0.5	1.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	2/1/2018	21	2.5	7.0	0.27 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/1/2018	3.0	ND<0.5	0.47 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	4/2/2018	3.2	ND<0.5	1.0	0.32 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	5/2/2018	19	ND<0.5	1.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	6/20/2018	1.4	0.22 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	7/2/2018	1.7	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/28/2018	ND<0.5	0.45	5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/21/2018	4.21	1.02	1.38	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5

Notes

ARARs	Applicable Relevant and Appropriate Requirements for aquifer restoration established for the Site.
PCE	Tetrachloroethylene
TCE	Trichloroethylene
cis-1,2-DCE	cis-1,2-Dichloroethylene
1,1,1-TCA	1,1,1-Trichloroethane
VC	Vinyl Chloride
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x

^{1/} The NYSDEC ambient water quality standards for these compounds are presented because site-specific ARARs for these compounds were not established.

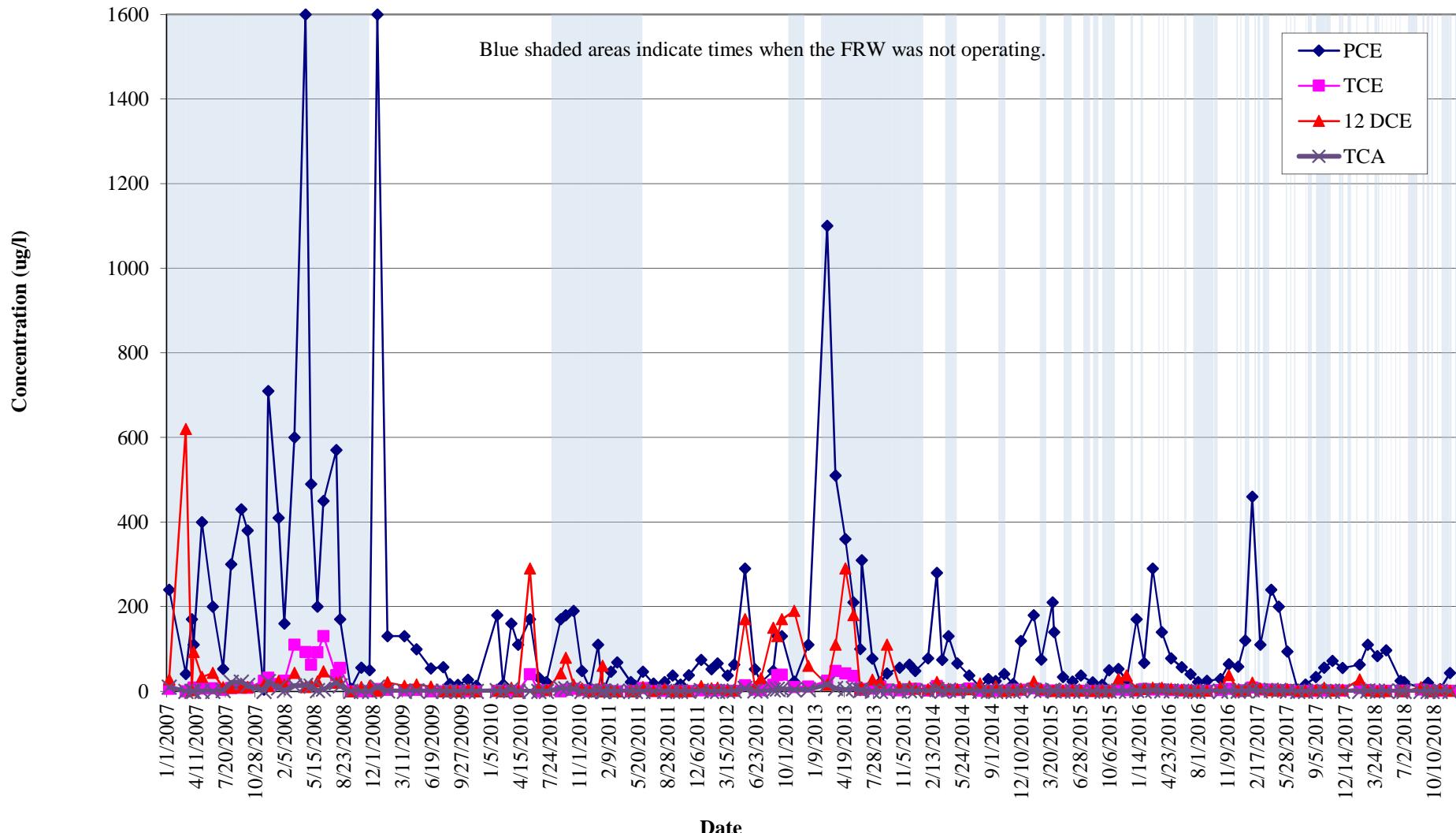
GRAPHS



GRAPH 1

**SUPPLEMENTAL CHARACTERIZATION AND FOCUSED GROUNDWATER
REMEDIATION FEASIBILITY STUDY
FORMER ROWE INDUSTRIES SUPERFUND SITE
1668 SAG HARBOR TURNPIKE
SAG HARBOR, NEW YORK**

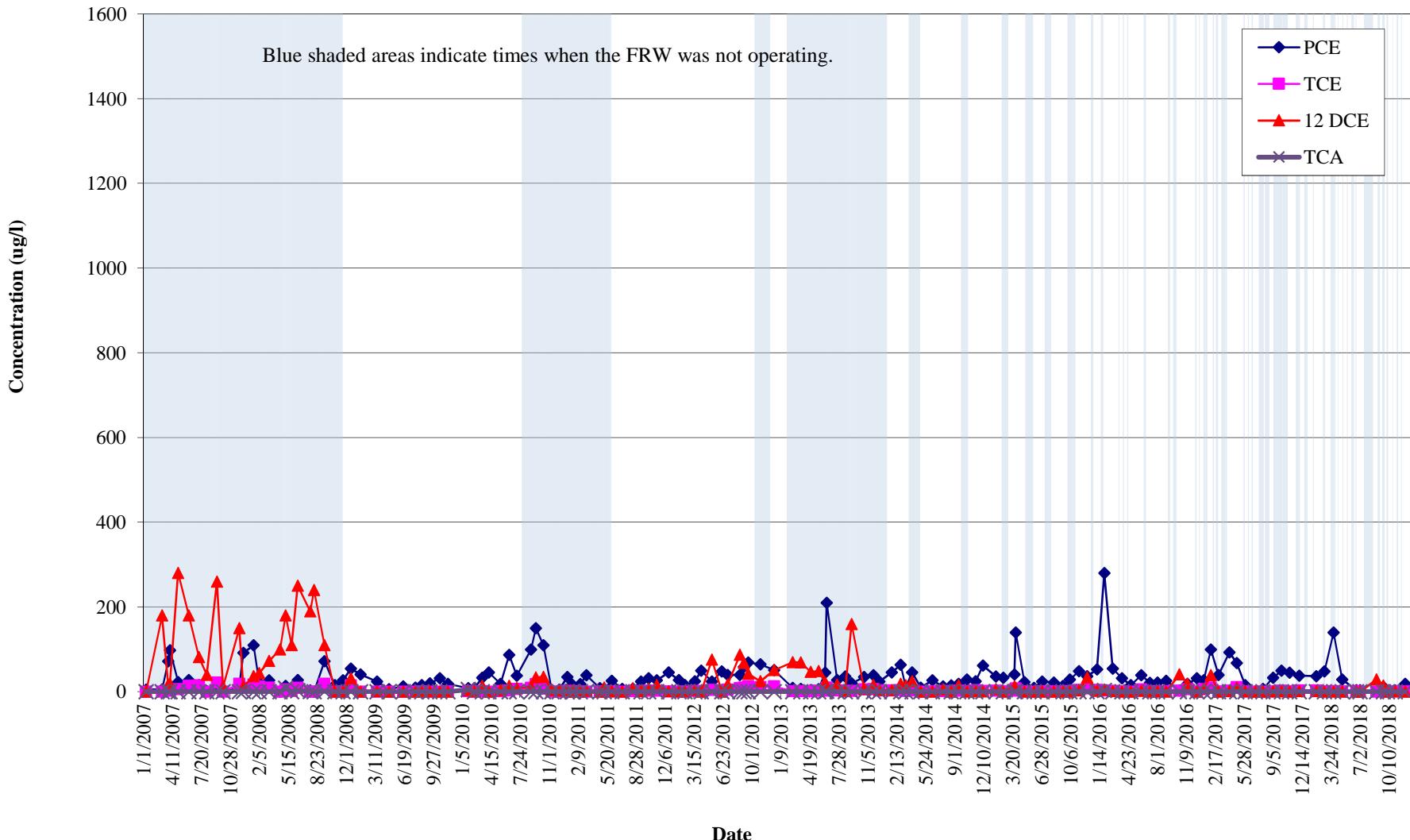
FP&T Recovery Well VOC Concentrations for FRW-1 for 2007 through 2018



GRAPH 2

**SUPPLEMENTAL CHARACTERIZATION AND FOCUSED GROUNDWATER
REMEDIATION FEASIBILITY STUDY
FORMER ROWE INDUSTRIES SUPERFUND SITE
1668 SAG HARBOR TURNPIKE
SAG HARBOR, NEW YORK**

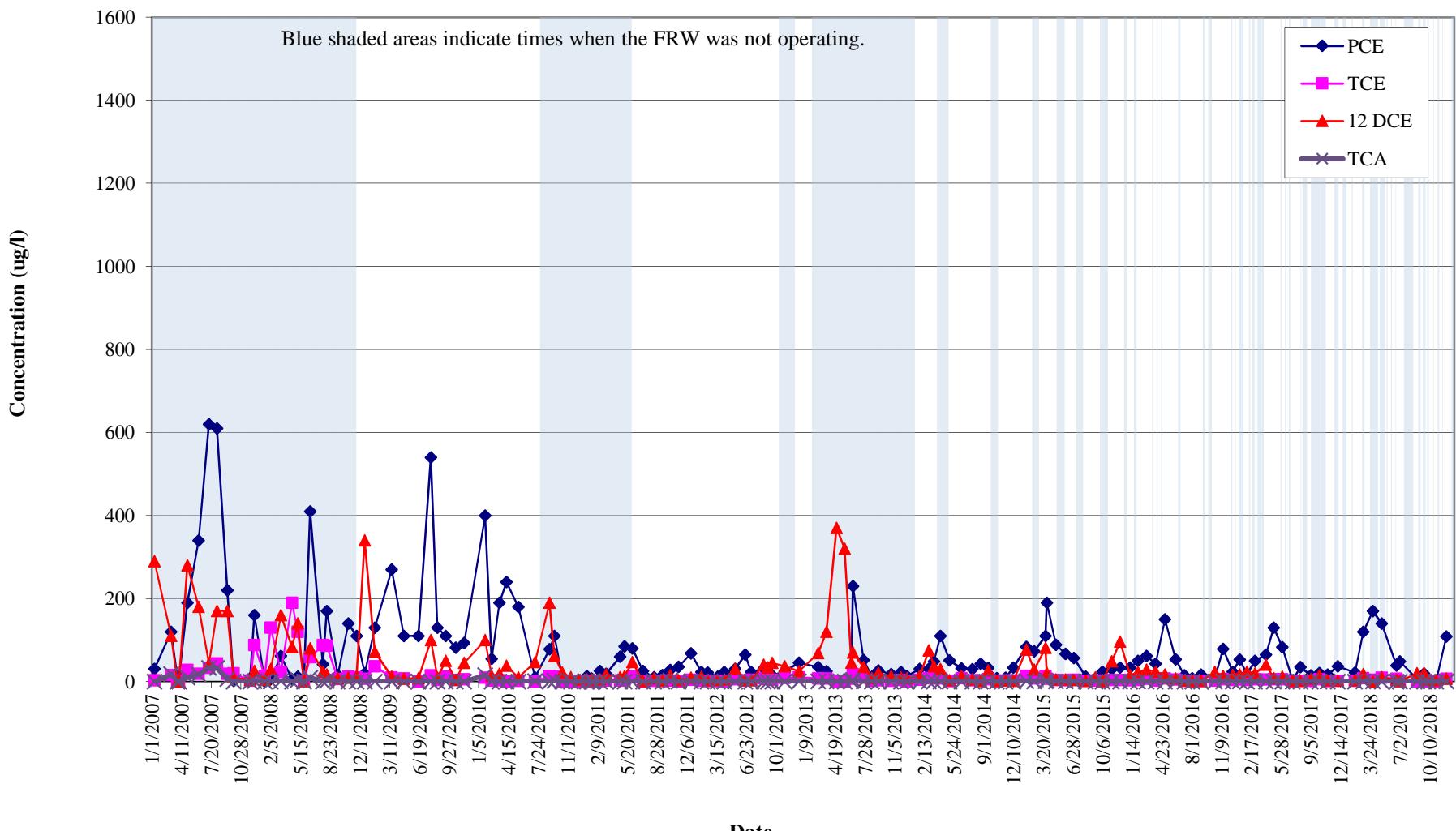
FP&T Recovery Well VOC Concentrations for FRW-2 for 2007 through 2018



GRAPH 3

**SUPPLEMENTAL CHARACTERIZATION AND FOCUSED GROUNDWATER
REMEDIATION FEASIBILITY STUDY
FORMER ROWE INDUSTRIES SUPERFUND SITE
1668 SAG HARBOR TURNPIKE
SAG HARBOR, NEW YORK**

FP&T Recovery Well VOC Concentrations for FRW-3 for 2007 through 2018



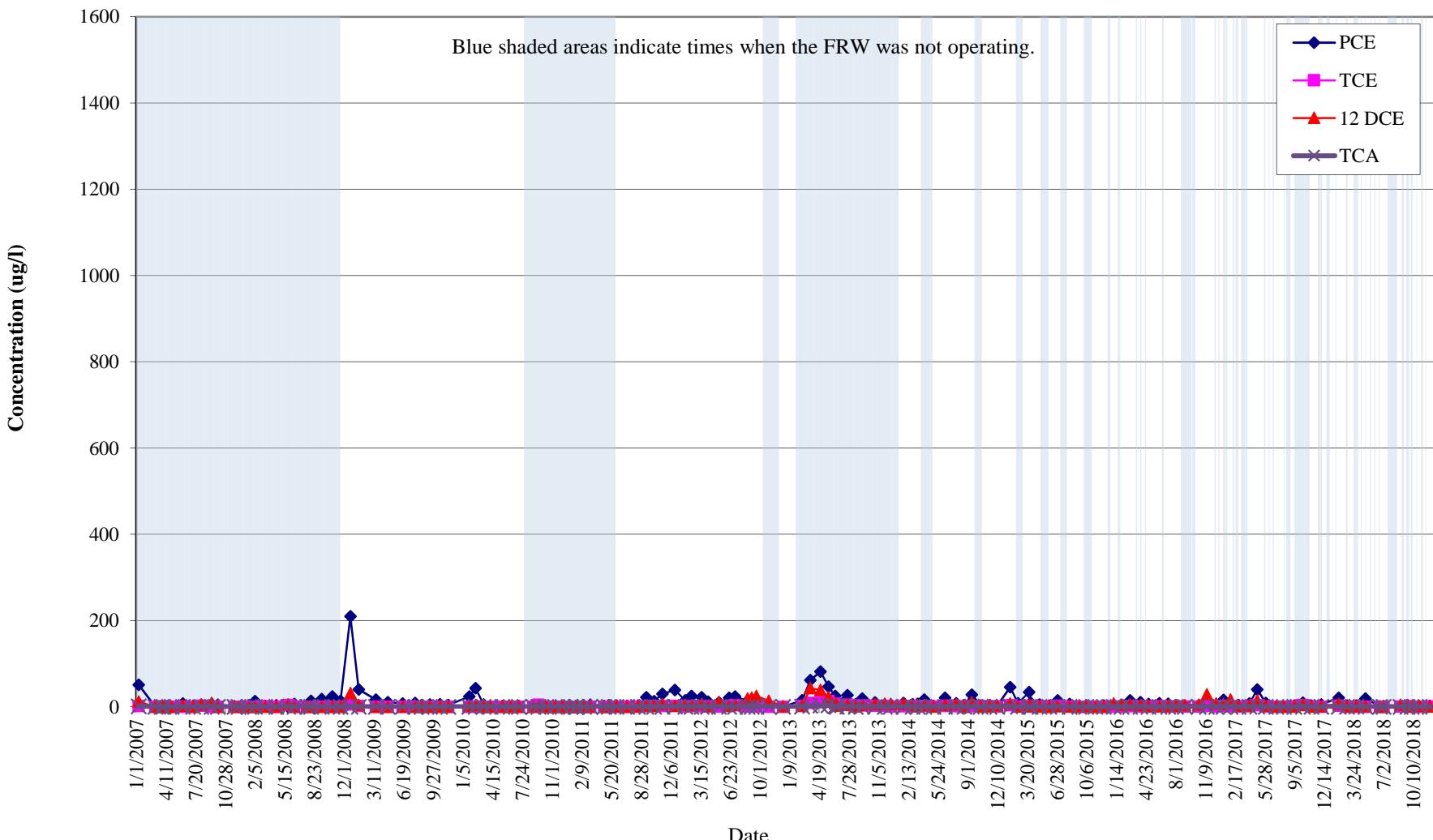
K:\Jobs\Kraft Foods Global, Inc\ROWE Industries\Ground Water\O&M\FDSA\2018 FDSA\Report\graphs\
FP&T Graphs 1, 2,3,4
Graph 3 FRW-3 (Hist)

WSP USA

GRAPH 4

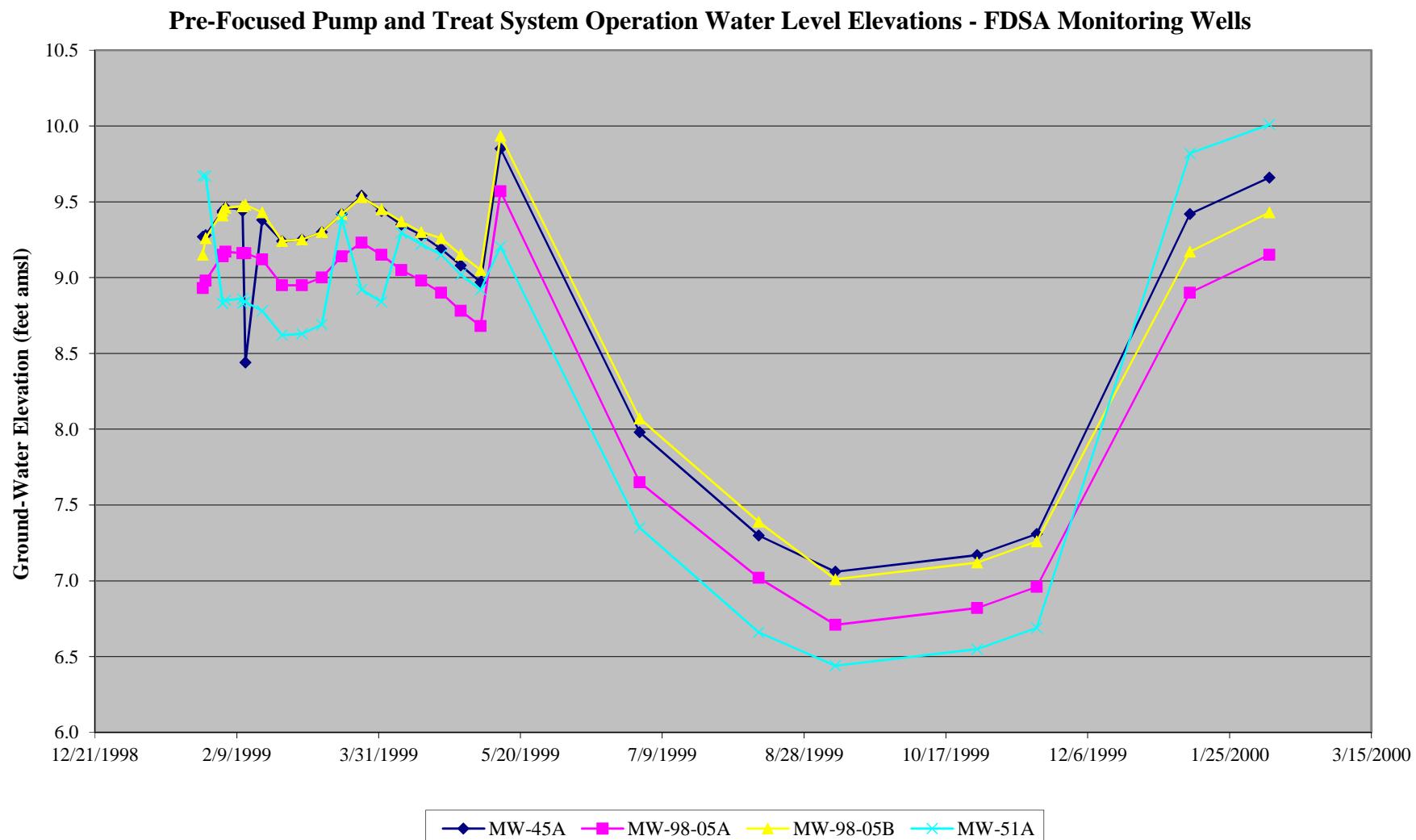
**SUPPLEMENTAL CHARACTERIZATION AND FOCUSED GROUNDWATER
REMEDIATION FEASIBILITY STUDY
FORMER ROWE INDUSTRIES SUPERFUND SITE
1668 SAG HARBOR TURNPIKE
SAG HARBOR, NEW YORK**

FP&T Recovery Well VOC Concentrations for FRW-4 for 2007 through 2018

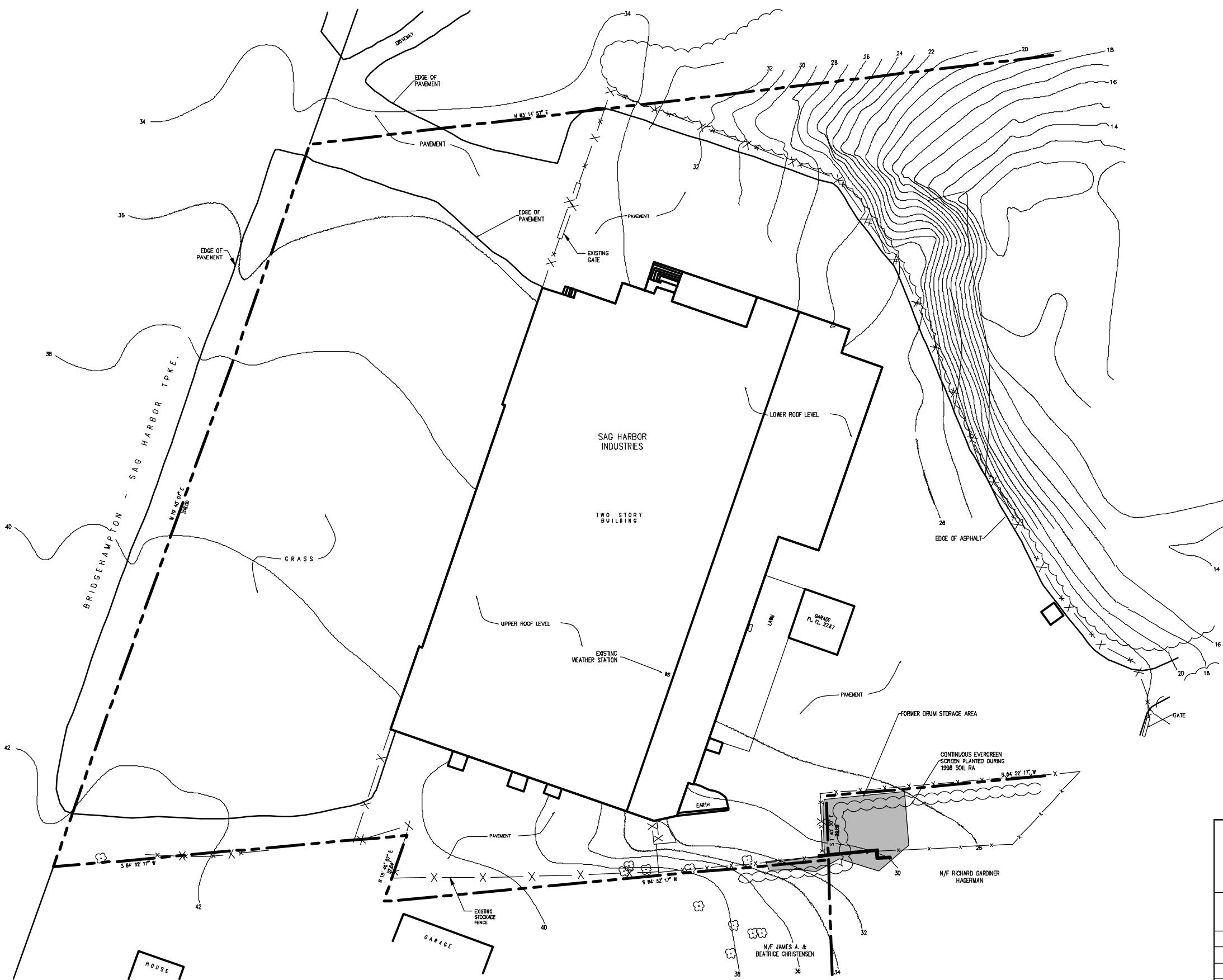


GRAPH 5

SUPPLEMENTAL CHARACTERIZATION AND FOCUSED GROUNDWATER REMEDIATION FEASIBILITY STUDY ROWE INDUSTRIES SITE SAG HARBOR, NEW YORK



FIGURES

LEGEND

- PROPERTY BOUNDARY
- CHAIN LINK FENCE (EXISTING)
- CHAIN LINK FENCE (FORMER)
- APPROXIMATE TREELINE
- GROUND SURFACE ELEVATION (FEET ABOVE MEAN SEA LEVEL)

**GROUNDWATER REMEDIAL ACTION
FORMER ROWE INDUSTRIES SUPERFUND SITE
SAG HARBOR, NEW YORK**

FORMER ROWE INDUSTRIES SUPERFUND SITE MAP

DATE

REVISED

PREPARED BY:



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Suite 204
Shelton, Connecticut 06484
(203) 929-8555

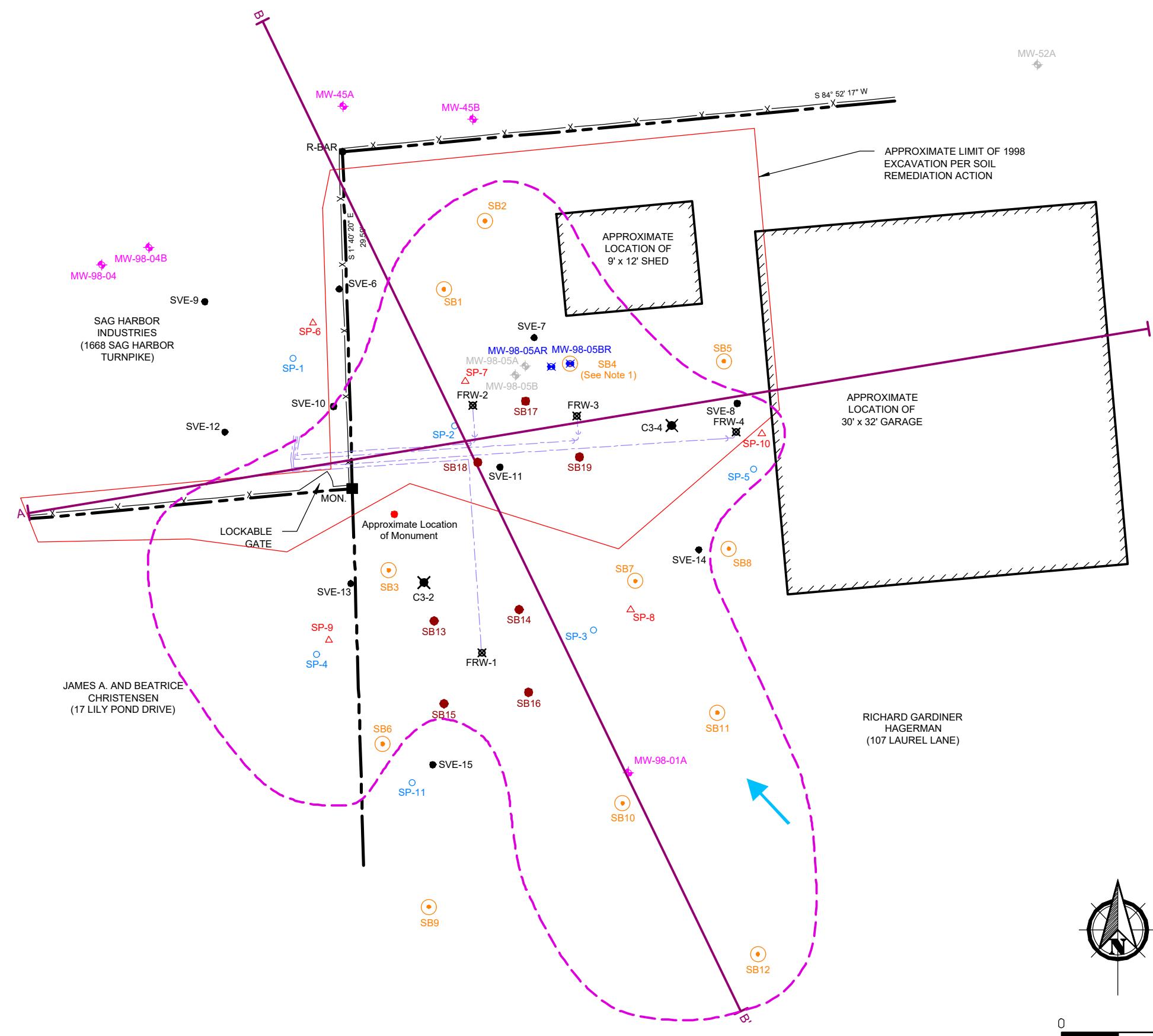
0 10
SCALE IN FEET

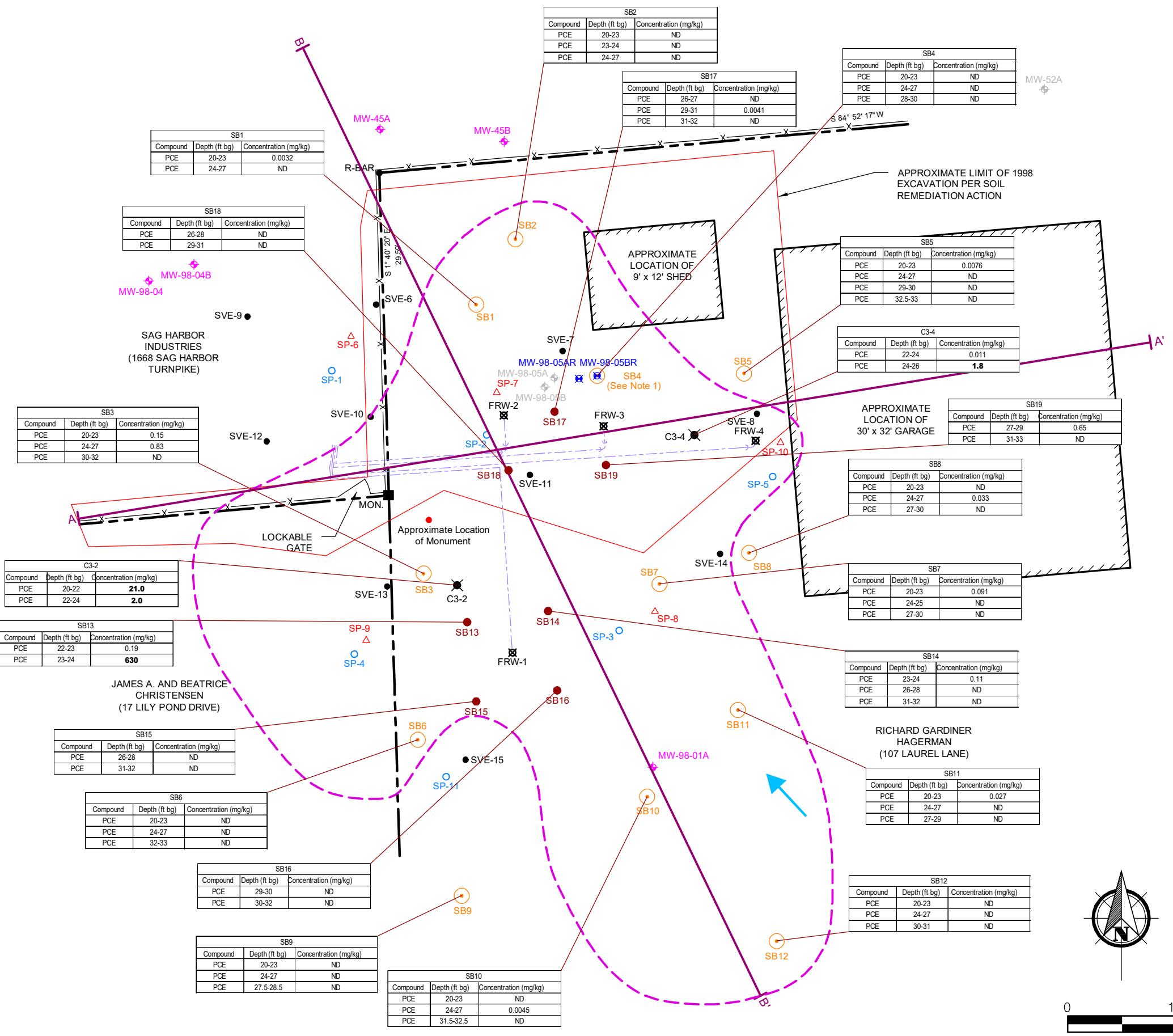
DRAWN: RAC

CHECKED: MG

DATE: 02/21/19

FIGURE: 1



**LEGEND**

- PROPERTY BOUNDARY
- CHAIN LINK FENCE
- APPROXIMATE LOCATION OF FOCUSED REMEDIATION GROUNDWATER RECOVERY PIPING
- APPROXIMATE EXTENT OF CLAY LENS (~25 - 33 ft.bg.)
- FOCUSED REMEDIATION RECOVERY WELL (APPROXIMATE LOCATION)
- GROUNDWATER MONITOR WELL LOCATION
- JANUARY 2003 BORING LOCATION
- DECEMBER 2015 BORING LOCATION
- DECOMMISSIONED MONITOR WELL
- REPLACEMENT MONITOR WELL INSTALLED IN DECEMBER 2015
- SHALLOW AIR SPARGE WELL LOCATION
- DEEP AIR SPARGE WELL LOCATION
- SVE WELL LOCATION
- JUNE 2018 SOIL BORING
- GENERAL DIRECTION OF GROUNDWATER FLOW

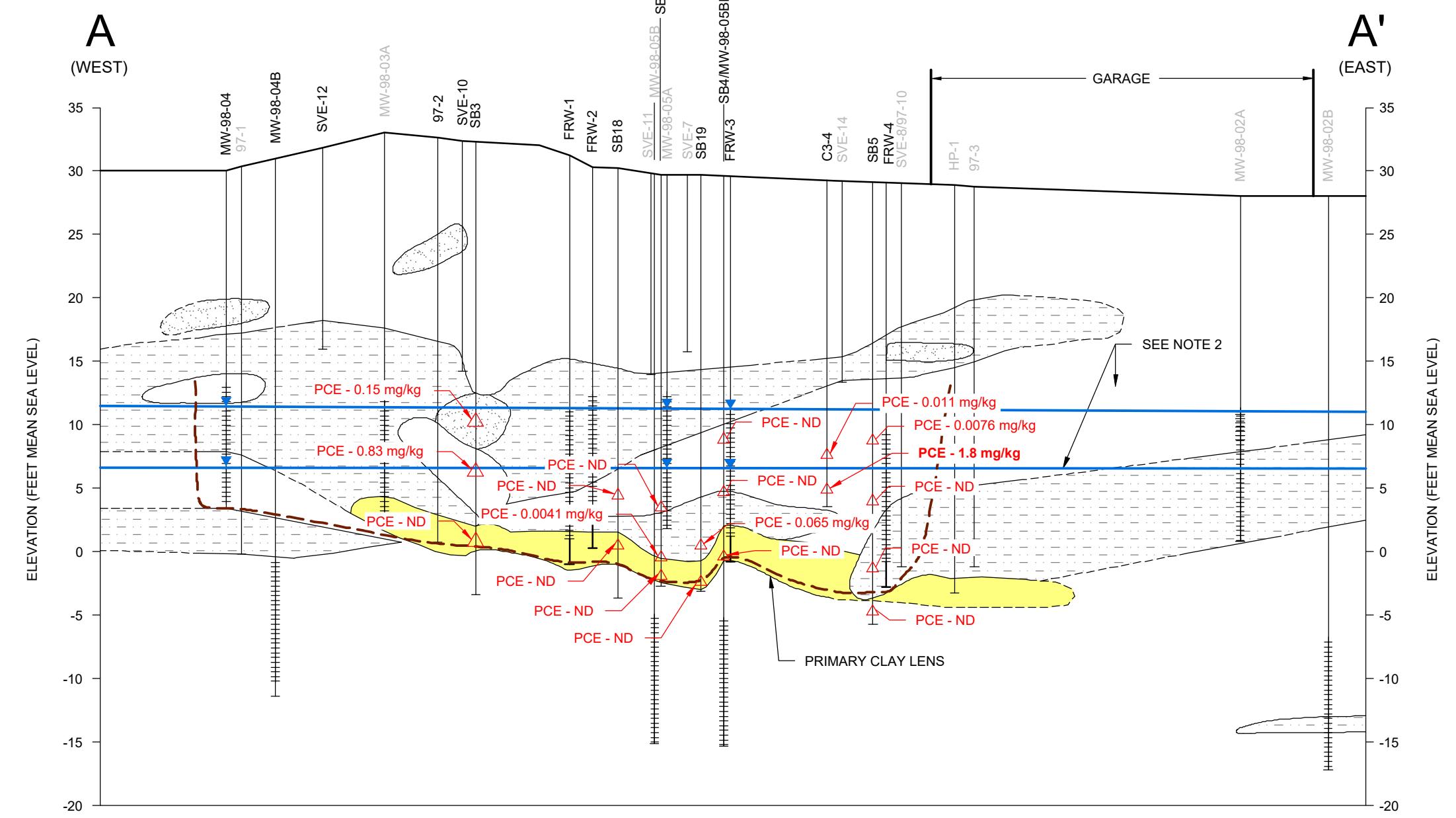
NOTES:

1. BORING SB4 WAS COMPLETED AS MW-98-05BR.
2. A BOLD VALUE INDICATES AN EXCEDENCE OF THE ARAR.

GROUNDWATER REMEDIAL ACTION FORMER ROWE INDUSTRIES SUPERFUND SITE SAG HARBOR, NEW YORK

FDSA CONCENTRATIONS IN SOIL

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DRAWN:	RAC	CHECKED: MG
DATE:	02/21/19	FIGURE: 3

LEGEND

- WATER TABLE ELEVATION
- SCREEN SETTING
- DEPTH OF BORING
- FINE TO COARSE SAND
- FINE TO COARSE SAND AND SILTY CLAY
- FINE SAND AND SILT
- SILT AND CLAY
- MW-98-03A
- ESTIMATED GEOLOGIC BOUNDARY

- APPROXIMATE BOUNDARY WHERE PCE CONCENTRATIONS IN THE GROUNDWATER EXCEED THE ARAR AT LEAST PART OF THE TIME
- SATURATED SOIL SAMPLE LOCATION

NOTES:

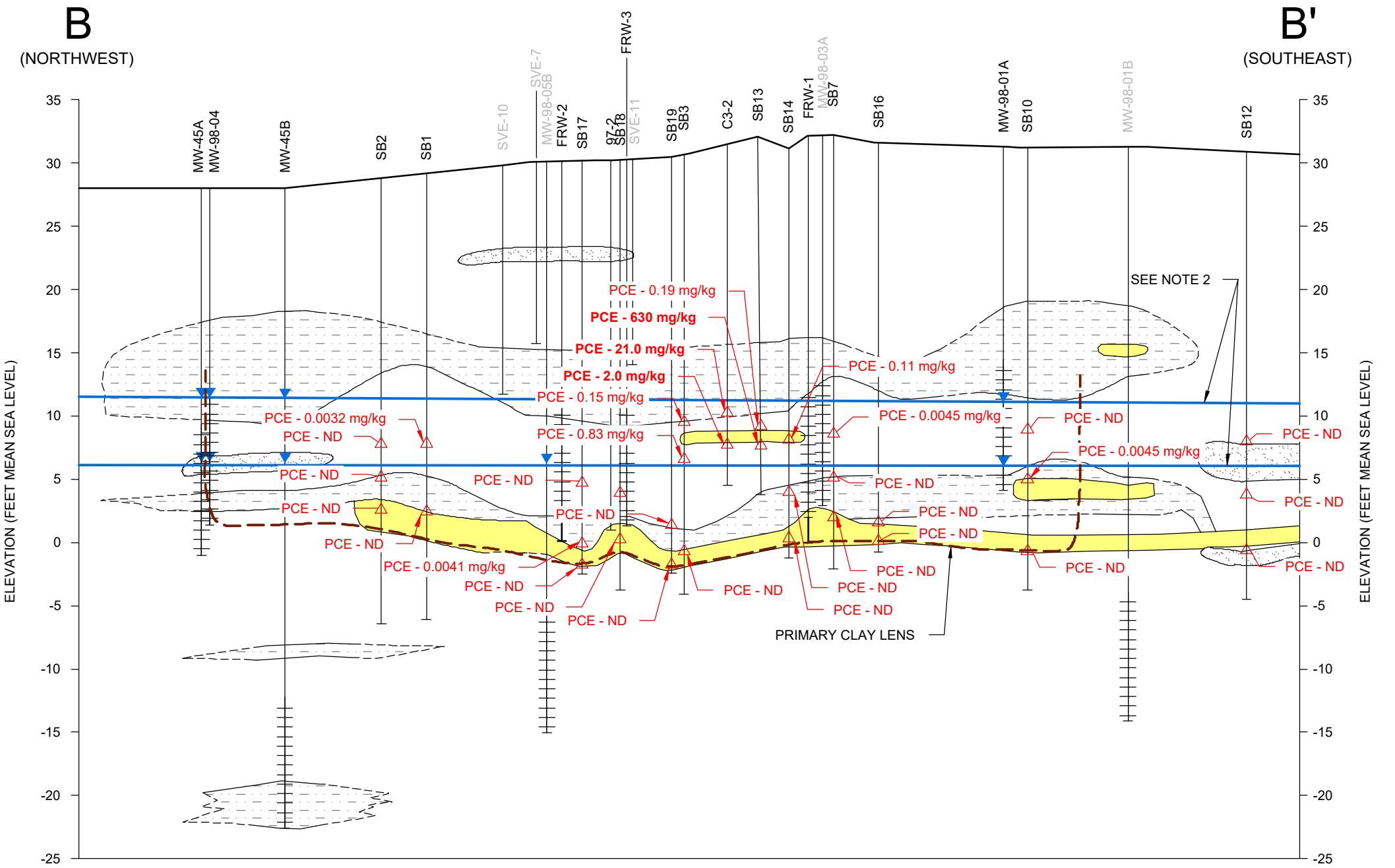
1. HORIZONTAL CROSS SECTION LINES ARE DEPICTED ON FIGURE 1.
2. LOW AND HIGH GROUNDWATER ELEVATIONS SHOWN ARE FOR RECORDED WATER ELEVATION DATA FROM 2003 TO 2018 AND RANGE FROM APPROXIMATELY 6.1 FT TO 11 FT ABOVE MEAN SEA LEVEL.
3. BOLD VALUE INDICATES AN EXCEEDANCE OF THE ARAR.

0 10
HORIZONTAL SCALE IN FEET
0 10
VERTICAL SCALE IN FEET

**GROUNDWATER REMEDIAL ACTION
FORMER ROWE INDUSTRIES SUPERFUND SITE
SAG HARBOR, NEW YORK**

FDSA CROSS-SECTION A-A'

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DRAWN:	RAC	CHECKED: MG DATE: 02/21/19 FIGURE: 4

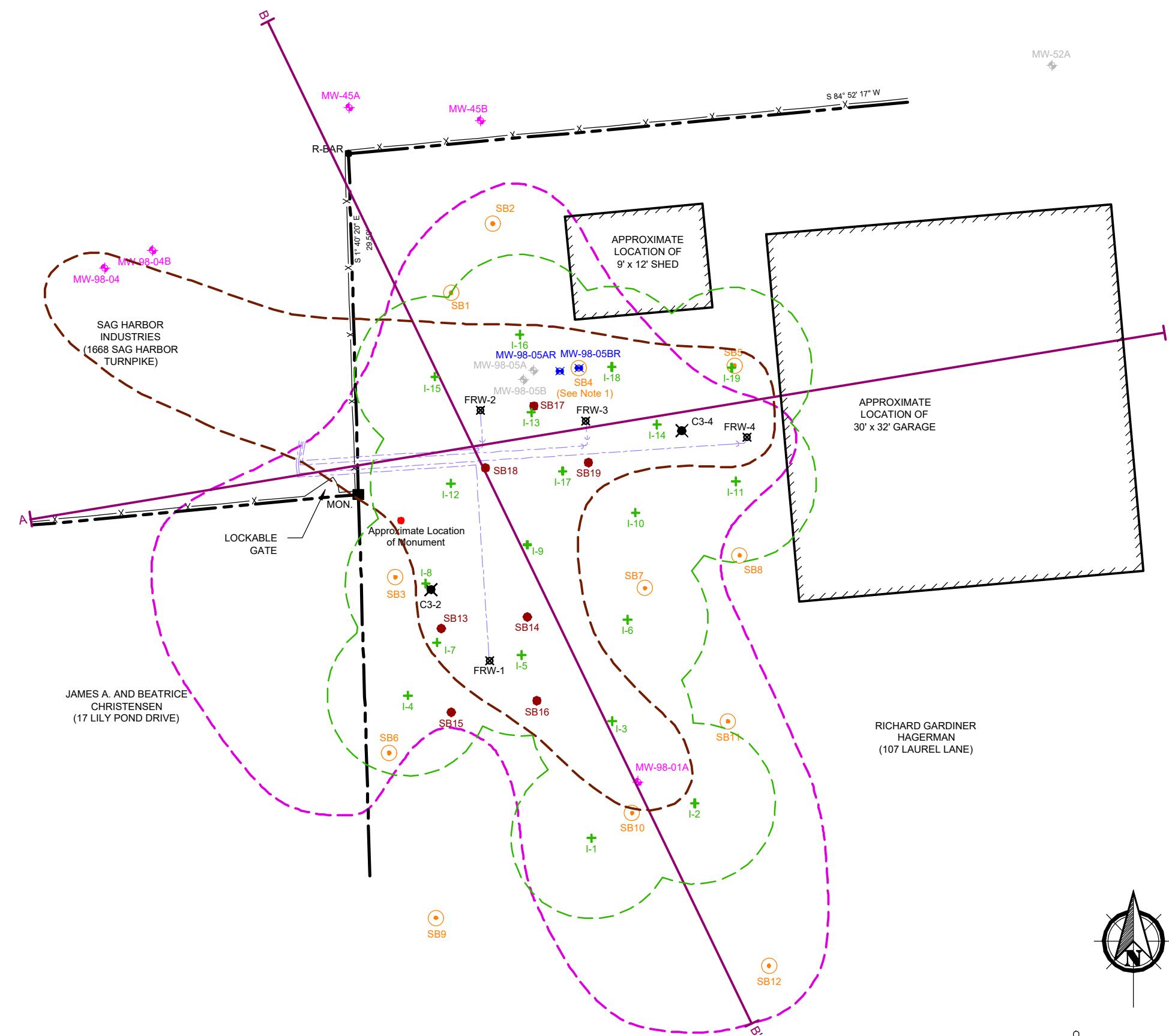


**GROUNDWATER REMEDIAL ACTION
FORMER ROWE INDUSTRIES SUPERFUND SITE
SAG HARBOR, NEW YORK**

FDSA CROSS-SECTION B-B'

DATE	REVISED	PREPARED BY:
		WSP USA 4 Research Drive Suite 204 Shelton, Connecticut 06484 (203) 929-8555
DRAWN:	RAC	CHECKED: MG
DATE:	12/19/18	FIGURE: 5

0 10 0 10
HORIZONTAL SCALE IN FEET VERTICAL SCALE IN FEET



LEGEND

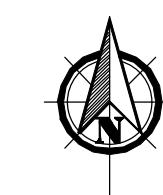
- PROPERTY BOUNDARY
- CHAIN LINK FENCE
- APPROXIMATE LOCATION OF FOCUSED REMEDIATION GROUNDWATER RECOVERY PIPING
- APPROXIMATE EXTENT OF CLAY LENS (~25 - 33 ft.bg.)
- FOCUSED REMEDIATION RECOVERY WELL (APPROXIMATE LOCATION)
- GROUNDWATER MONITOR WELL LOCATION
- JANUARY 2003 BORING LOCATION
- DECEMBER 2015 BORING LOCATION
- DECOMMISSIONED MONITOR WELL
- REPLACEMENT MONITOR WELL INSTALLED IN DECEMBER 2015
- JUNE 2018 SOIL BORING
- APPROXIMATE BOUNDARY WHERE PCE CONCENTRATIONS IN THE GROUNDWATER EXCEED THE ARAR AT LEAST PART OF THE TIME
- ESTIMATED BOUNDARY FOR DISTRIBUTION OF INJECTANTS (AREA ~ 1,700 SF). ASSUMES AN APPROXIMATE SEVEN (7) FOOT RADIUS AROUND EACH INJECTION POINT.
- PROPOSED INJECTION POINT

NOTE:
1. BORING SB4 WAS COMPLETED AS MW-98-05BR.

GROUNDWATER REMEDIAL ACTION FORMER ROWE INDUSTRIES SUPERFUND SITE SAG HARBOR, NEW YORK

FDSA SITE MAP WITH PROPOSED INJECTION POINTS

DATE	REVISED	PREPARED BY:
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DRAWN:	RAC	CHECKED: MG DATE: 02/21/19 FIGURE: 6



0 10
SCALE IN FEET

APPENDIX

I. BORING LOGS



GEOLOGIC LOG
WSP USA
SHELTON, CONNECTICUT

OWNER: Kraft Heinz Food Company
(as successor to Kraft Foods Group, Inc.)

BORING NO: SB13

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SITE LOCATION: Former Rowe Industries Superfund Site 1668 Sag Harbor Turnpike, Sag Harbor, NY	SCREEN SIZE & TYPE: NA SLOT NO: NA SETTING: NA
DATE COMPLETED: June 18, 2018	SAND PACK SIZE & TYPE: NA
DRILLING COMPANY: Aquifer Drilling & Testing 75 E 2 nd Street, Mineola, NY	SETTING: NA
DRILLING METHOD: Direct push (Geoprobe)	CASING SIZE & TYPE: NA SETTING: NA
SAMPLING METHOD: Macro core	SEAL TYPE: NA
OBSERVER: Sierra Anseeuw	SETTING:
REFERENCE POINT (RP): Grade	BACKFILL TYPE: Bentonite chips 0-28; topsoil/grass seed
ELEVATION OF RP: Not measured	STATIC WATER LEVEL: ~22 ftbg
STICK-UP: NA	DEVELOPMENT METHOD: NA
SURFACE COMPLETION: Backfill to grade	DURATION: NA YIELD: NA
REMARKS: Sampled (22-23) at 14:25; (23-24) at 14:30	
GPS COORDINATES:	
ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube REC = recovery PPM = parts per million	

DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					
4	8	MC	--	4.0	0	4-8: SAND, fine – medium, orangish brown; trace gravel, small – medium, sub-rounded; semi-compact; dry; no odor; no staining
8	12	MC	--	4.0	0	8-12: SAND, fine – medium, brown; semi-compact; dry; no odor; no staining
12	16	MC	--	4.0	0	12-13.2: SAND, fine, orangish brown; little gravel, medium, sub-angular; semi-compact; dry; no odor; no staining
						13.2-16: SAND, fine, brown; semi-compact; dry; no odor; no staining
16	20	MC	--	4.0	0	16-17.5: SAND, fine, brown; trace gravel, small, sub-rounded; semi-compact; dry; no odor; no staining
						17.5-18: SAND, medium, light tan; trace gravel, small, sub-rounded; loose; dry; no odor; no staining
						18-18.3: Sand and Silt, very fine – fine, brown; semi-compact; dry, no odor; no staining
						18.3-20: SAND, fine – medium, tan; semi-compact; dry; no odor; no staining

OWNER: Kraft Heinz Food Company (as successor to Kraft Foods Group, Inc.)

WELL NO.: SB13

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GEOLOGIC LOG
WSP USA
SHELTON, CONNECTICUT

OWNER: Kraft Heinz Food Company
(as successor to Kraft Foods Group, Inc.)

BORING NO: SB14

PAGE 1 OF 2 PAGE

SITE LOCATION: Former Rowe Industries Superfund Site 1668 Sag Harbor Turnpike, Sag Harbor, NY	SCREEN SIZE & TYPE: NA SLOT NO: NA SETTING: NA
DATE COMPLETED: June 18, 2018	SAND PACK SIZE & TYPE: NA
DRILLING COMPANY: Aquifer Drilling & Testing 75 E 2 nd Street, Mineola, NY	SETTING: NA
DRILLING METHOD: Direct push (Geoprobe)	CASING SIZE & TYPE: NA SETTING: NA
SAMPLING METHOD: Macro core	SEAL TYPE: NA
OBSERVER: Sierra Anseeuw	SETTING:
REFERENCE POINT (RP): Grade	BACKFILL TYPE: Bentonite chips 0-32, topsoil, seed
ELEVATION OF RP: Not measured	STATIC WATER LEVEL: ~22 ft bg
STICK-UP: NA	DEVELOPMENT METHOD: NA
SURFACE COMPLETION: Backfill to grade	DURATION: NA YIELD: NA
REMARKS: Sampled (23-24) at 16:45; (26-28) at 16:50; (~30-31) -> Clay layer at 17:00	
GPS COORDINATES:	
ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube REC = recovery PPM = parts per million	

DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					
3	4	MC	--	0.5	0	3-3.5: SAND, medium, tan; semi-compact; dry; no odor; no staining
4	8	MC	--	2.8	0	4-6.8: SAND, fine, brown; some gravel, medium – large, sub-angular; semi-compact; dry; no odor; no staining
8	12	MC	--	4.0	0	8-12: SAND, fine, orangish brown; little gravel, small – medium, sub-rounded; semi-compact; dry; no odor; no staining
12	16	MC	--	4.0	0	12-16: SAND, fine – medium, light brown; semi-compact; dry; no odor; no staining
16	20	MC	--	4.0	0	16-17.1: SAND, fine, brown; trace gravel, small – medium, sub-rounded; semi-compact; dry; no odor; no staining
					0	17.1-18.8: SAND, medium, tan; loose; dry; no odor; no staining
					0	18.8-19: SAND, very fine; with Silt; semi-compact; dry; no odor; no staining
					0	19-19.3: White Crushed Rock

OWNER: Kraft Heinz Food Company (as successor to Kraft Foods Group, Inc.)

WELL NO.: SB14

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DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					
					0	19.3-20: 17.1-18.8: SAND, medium, tan; loose; dry; no odor; no staining
20	24	MC	--	4.0	0	20-22: SAND, fine, brown; trace gravel, small – medium; sub-rounded; semi-compact; dry; no odor; no staining
					4.8	22-22.8: SAND, fine, gray; wet; semi-compact; no odor; no staining
					42.1	22.8-23.1: CLAY, gray; wet; compact; no odor; no staining
					65.5	23.1-24: SAND, medium, tan; loose; wet; no odor; no staining
24	28	MC	--	4.0	14.2	24-26.1: SAND, medium, gray; wet; no odor; no staining
					365	26.1-28: SAND, medium – coarse, tan; loose; wet; strong odor; no staining
28	32	MC	--	3.3	300	28-30: SAND, medium – coarse, tan; loose; wet; strong odor; no staining
					5.2	30-30.5: SAND; fine, orange, wet; no odor; no staining
					19.2	30.3-31.1: CLAY, gray; compact; wet; no. odor; no staining
					1.8	31.1-31.3: SAND, fine – medium, brown; semi-compact; wet; no odor; no staining
	32	--	--	--	--	End of Boring



GEOLOGIC LOG
WSP USA
SHELTON, CONNECTICUT

OWNER: Kraft Heinz Food Company
(as successor to Kraft Foods Group, Inc.)
BORING NO: SB15
PAGE 1 OF 1 PAGE

SITE LOCATION: Former Rowe Industries Superfund Site 1668 Sag Harbor Turnpike, Sag Harbor, NY	SCREEN SIZE & TYPE: NA SLOT NO: NA SETTING: NA
DATE COMPLETED: June 18, 2018	SAND PACK SIZE & TYPE: NA
DRILLING COMPANY: Aquifer Drilling & Testing 75 E 2 nd Street, Mineola, NY	SETTING: NA
DRILLING METHOD: Direct push (Geoprobe)	CASING SIZE & TYPE: NA SETTING: NA
SAMPLING METHOD: Macro core	SEAL TYPE: NA
OBSERVER: Sierra Anseeuw	SETTING:
REFERENCE POINT (RP): Grade	BACKFILL TYPE: Bentonite chips
ELEVATION OF RP: Not measured	STATIC WATER LEVEL: ~26 ft bg
STICK-UP: NA	DEVELOPMENT METHOD: NA
SURFACE COMPLETION: Backfill to grade	DURATION: NA YIELD: NA
REMARKS: Sampled (26-28) at 15:50; (31-32) at 16:00	
GPS COORDINATES:	
ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube REC = recovery PPM = parts per million	

DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					
3	4	MC	--	0.5	0	3-3.5: SAND, medium, tan; semi-compact; dry; no odor; no staining
4	8	MC	--	4.0	0	4-8: SAND, fine – medium, tan; some gravel, medium, sub-rounded; semi-compact; dry; no odor; no staining
8	12	MC	--	3.2	0	8-10.3: SAND, fine, dark brown; trace gravel, small, sub-angular; semi-compact; dry; no odor; no staining
					0	10.3-11.2: SAND, medium, tan; loose; dry; no odor; no staining
12	16	MC	--	3.6	0	12-14.4: SAND, fine, dark brown; some gravel at 13.5-14.4 ft, medium, sub-angular; semi-compact; dry; no odor; no staining
					0	14.4-15.6: 10.3-11.2: SAND, medium, tan; loose; dry; no odor; no staining
16	20	MC	--	4.0	0	16-17.5: SAND, fine, dark brown; trace gravel, small – medium, sub-rounded – sub-angular; semi-compact; dry; no odor; no staining
					0	17.5-18.4: SAND, medium, tan; loose; dry; no odor; no staining

OWNER: Kraft Heinz Food Company (as successor to Kraft Foods Group, Inc.)

WELL NO.: SB15

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DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					
					0	18.4-18.7: Sand and Silt; very fine, brown; compact; dry; no odor; no staining
					0	18.7-20: 17.5-18.4: SAND, medium, tan; loose; dry; no odor; no staining
20	24	MC	--	4.0	0	20-22: SAND, fine, dark brown; some gravel, medium, sub-rounded; semi-compact; dry; no odor; no staining
					0	22-22.9: SAND, fine, dark brown; little gravel, medium, sub-angular; semi-compact; dry; no odor; no staining
					0	22.9-23.1: SAND, medium – coarse, tan; loose; dry; no odor; no staining
					0	23.1-23.4: SAND, very fine, brown; with Silt; compact; dry; no odor; no staining
					0	23.4-24: SAND, fine, brown; some gravel, medium – large, sub-angular; semi-compact; dry; no odor; no staining
24	28	MC	--	4.0	0	24-26: SAND, fine, brown; some gravel, medium – large, sub-angular; semi-compact; dry; no odor; no staining
					34.5	26-28: SAND, medium, light tan; wet; slight odor; no staining
28	32	MC	--	4.0	21.1	28-31: SAND, medium, light tan; wet; slight odor; no staining
					19.8	31-31.8: CLAY, gray; compact; wet; slight odor; no staining
					0	31.8-32: SAND, medium, light brown; loose; wet; no odor; no staining
	32	--	--	--	--	End of Boring



GEOLOGIC LOG
WSP USA
SHELTON, CONNECTICUT

OWNER: Kraft Heinz Food Company
(as successor to Kraft Foods Group, Inc.)

BORING NO: SB16

PAGE 1 OF 1 PAGE

SITE LOCATION: Former Rowe Industries Superfund Site 1668 Sag Harbor Turnpike, Sag Harbor, NY	SCREEN SIZE & TYPE: NA SLOT NO: NA SETTING: NA
DATE COMPLETED: June 18, 2018	SAND PACK SIZE & TYPE: NA
DRILLING COMPANY: Aquifer Drilling & Testing 75 E 2 nd Street, Mineola, NY	SETTING: NA
DRILLING METHOD: Direct push (Geoprobe)	CASING SIZE & TYPE: NA SETTING: NA
SAMPLING METHOD: Macro core	SEAL TYPE: NA
OBSERVER: Sierra Anseeuw	SETTING:
REFERENCE POINT (RP): Grade	BACKFILL TYPE: Bentonite chips 0-32; topsoil and seed
ELEVATION OF RP: Not measured	STATIC WATER LEVEL: ~26 ft bg
STICK-UP: NA	DEVELOPMENT METHOD: NA
SURFACE COMPLETION: Backfill to grade	DURATION: NA YIELD: NA
REMARKS: Sampled (29-30) at 17:50; (30-32) at 18:00	
GPS COORDINATES:	
ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube REC = recovery PPM = parts per million	

DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					
4	8	MC	--	3.6	0	4-8: SAND, fine, orangish – brown; trace gravel, small, sub-angular; semi-compact; dry; no odor; no staining
8	12	MC	--	4.0	0	8-12: SAND, fine, orangish – brown; trace gravel, small, sub-angular; semi-compact; dry; no odor; no staining
12	16	MC	--	3.4	0	12-15.4: SAND, fine, tan; trace grave, small – medium, sub-rounded; semi-compact; dry; no odor; no staining
16	20	MC	--	4.0	0	16-18.1: SAND, fine, brown; trace silt; trace gravel, small, sub-rounded; semi-compact, dry; no odor; no staining
					0	18.1-19.2: SAND, medium, tan; loose; dry; no odor; no staining
					0	19.2-20: Sand with Silt; brown; compact; dry; no odor; no staining
20	24	MC	--	3.7	0	20-22: SAND, fine, brown; little gravel, small, sub-rounded; semi-compact; dry; no odor; no staining
					2.8	22-23.7: SAND, fine, tan; loose; dry; no odor; no staining

OWNER: Kraft Heinz Food Company (as successor to Kraft Foods Group, Inc.)

WELL NO.: SB16

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DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					
24	28	MC	--	3.6	1.2	24-26.7: SAND, fine, brown; semi-compact; dry; no odor; no staining
					0	26.7-27.6: SAND, medium, tan; loose; wet; no odor; no staining
28	32	MC	--	3.4	0	28-28.7: SAND, fine, brown; trace gravel, small – medium, sub-angular; semi-compact; wet; no odor; no staining
					2.8	28.7-30.2: SAND, medium – coarse, tan; loose; wet; no odor; no staining
					0	30.2-31.2: CLAY, gray; compact; wet; no odor; no staining
					0	31.2-31.4: SAND, medium, light brown; loose; wet; no odor; no staining
	32	--	--	--	--	End of Boring



GEOLOGIC LOG
WSP USA
SHELTON, CONNECTICUT

OWNER: Kraft Heinz Food Company
(as successor to Kraft Foods Group, Inc.)

BORING NO: SB17

PAGE 1 OF 2 PAGE

SITE LOCATION: Former Rowe Industries Superfund Site 1668 Sag Harbor Turnpike, Sag Harbor, NY	SCREEN SIZE & TYPE: NA SLOT NO: NA SETTING: NA
DATE COMPLETED: June 18, 2018	SAND PACK SIZE & TYPE: NA
DRILLING COMPANY: Aquifer Drilling & Testing 75 E 2 nd Street, Mineola, NY	SETTING: NA
DRILLING METHOD: Direct push (Geoprobe)	CASING SIZE & TYPE: NA SETTING: NA
SAMPLING METHOD: Macro core	SEAL TYPE: NA
OBSERVER: Sierra Anseeuw	SETTING:
REFERENCE POINT (RP): Grade	BACKFILL TYPE: Bentonite chips 0-32, topsoil and seed
ELEVATION OF RP: Not measured	STATIC WATER LEVEL: ~22 ft bg
STICK-UP: NA	DEVELOPMENT METHOD: NA
SURFACE COMPLETION: Backfill to grade	DURATION: NA YIELD: NA
REMARKS: Sampled (26-27) at 10:20; (29-31) at 10:30; (31-32) at 10:35	
GPS COORDINATES:	
ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube REC = recovery PPM = parts per million	

DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					
3	4	MC	--	0.6	0	3-3.6: SAND, fine, tan; loose; dry; no odor; no staining
4	8	MC	--	3.4	0	4-7.4: SAND, fine, brown; trace silt; trace gravel, small – medium, sub-rounded; loose; dry; no odor; no staining
8	12	MC	--	3.9	0	8-9.9: SAND, fine; brown; trace gravel, small – medium; sub-rounded; loose; dry; no odor; no staining
					0	9.9-11.9: SAND, fine, tan; trace silt; trace gravel, small – medium, sub-rounded; semi-compact; dry; no odor; no staining
12	16	MC	--	3.3	0	12-13: SAND, fine, tan; trace silt; trace gravel, small – medium, sub-rounded; semi-compact; dry; no odor; no staining
					0	13-14.2: SAND, fine, tan; trace gravel, small, sub-rounded; loose; dry; no odor; no staining
					0	14.2-15.2: SAND, fine, gray; little silt; sub-compact; dry; no odor; no staining

OWNER: Kraft Heinz Food Company (as successor to Kraft Foods Group, Inc.)

WELL NO.: SB17

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DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					
16	20	MC	--	2.5	0	16-17.3: SAND, fine, gray; little gravel, small – medium, rounded; trace silt; sub-compact; dry; no odor; no staining
					0	17.3-18.5: SAND, fine; yellowish brown; trace gravel, small, sub-angular; dry; no odor; no staining
20	24	MC	--	2.8	0	20-21.5: SAND, fine, brown; little gravel, small, sub-rounded; trace silt; dry; no odor; no staining
					0	21.5-22.8: SAND, medium, light gray; trace gravel, small, sub-rounded, wet; no odor; no staining
24	28	MC	--	4.0	4.2	24-25.8: SAND, fine, tan; trace silt; trace gravel, small, sub-rounded, semi-compact; wet; no odor; no staining
					14.0	25.8-26.3: SAND, medium, light tan; loose; wet; no odor; no staining
					660	26.3-27: SAND, very fine – fine, gray; semi-compact; wet; strong odor; no staining
					14.2	SAND, fine, gray; some silt; semi-compact; wet; slight odor; no staining
					3.6	27.3-28: SAND, fine, gray; trace silt; loose; wet; slight odor, no staining
28	32	MC	--	4.0	0	28-29.3: SAND, fine, brown; trace gravel, small, sub-rounded; wet; no odor; no staining
					20.3	29.3-30.8: SAND, medium, gray; loose; wet; slight odor; no staining
					0.4	30.8-31.7: CLAY, gray; compact; wet; slight odor; no staining
					0	31.7-32: SAND, medium, light brown; loose; wet; no odor; no staining
	32	--	--	--	--	End of Boring



GEOLOGIC LOG
WSP USA
SHELTON, CONNECTICUT

OWNER: Kraft Heinz Food Company
(as successor to Kraft Foods Group, Inc.)

BORING NO: SB18

PAGE 1 OF 1 PAGE

SITE LOCATION: Former Rowe Industries Superfund Site 1668 Sag Harbor Turnpike, Sag Harbor, NY	SCREEN SIZE & TYPE: NA SLOT NO: NA SETTING: NA
DATE COMPLETED: June 18, 2018	SAND PACK SIZE & TYPE: NA
DRILLING COMPANY: Aquifer Drilling & Testing 75 E 2 nd Street, Mineola, NY	SETTING: NA
DRILLING METHOD: Direct push (Geoprobe)	CASING SIZE & TYPE: NA SETTING: NA
SAMPLING METHOD: Macro core	SEAL TYPE: NA
OBSERVER: Sierra Anseeuw	SETTING:
REFERENCE POINT (RP): Grade	BACKFILL TYPE: Bentonite chips 0-33, topsoil, seed
ELEVATION OF RP: Not measured	STATIC WATER LEVEL: ~27 ft bg
STICK-UP: NA	DEVELOPMENT METHOD: NA
SURFACE COMPLETION: Backfill to grade	DURATION: NA YIELD: NA
REMARKS: Sampled (26-28) at 11:20; (29-31) at 11:30	
GPS COORDINATES:	
ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube REC = recovery PPM = parts per million	

DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					
5	9	MC	--	3.6	0	5-8.6: SAND, fine, orangish brown; semi-compact; dry; no odor; no staining
9	13	MC	--	4.0	0	9-13: SAND, fine, tan; trace gravel, small – medium, sub-angular; dry; no odor; no staining
13	17	MC	--	4.0	0	13-14.8: SAND, fine, brown; little gravel, medium, sub-angular to sub-rounded; semi-compact; dry; no odor; no staining
					0	14.8-15.9: SAND, fine, tan; semi-compact; dry; no odor; no staining
					0	15.9-17: SAND, medium, light brown; semi-compact; dry; no odor; no staining
17	21	MC	--	4.0	0	17-18.2: SAND, fine, brown; little gravel, small – medium; sub-rounded; semi-compact; dry; no odor; no staining
					0	18.2-19.5: SAND, fine-medium, tan; little gravel, sub-angular; semi-compact; dry; no odor; no staining

OWNER: Kraft Heinz Food Company (as successor to Kraft Foods Group, Inc.)

WELL NO.: SB18

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GEOLOGIC LOG
WSP USA
SHELTON, CONNECTICUT

OWNER: Kraft Heinz Food Company
(as successor to Kraft Foods Group, Inc.)

BORING NO: SB19

PAGE 1 OF 1 PAGE

SITE LOCATION: Former Rowe Industries Superfund Site 1668 Sag Harbor Turnpike, Sag Harbor, NY	SCREEN SIZE & TYPE: NA SLOT NO: NA SETTING: NA
DATE COMPLETED: June 18, 2018	SAND PACK SIZE & TYPE: NA
DRILLING COMPANY: Aquifer Drilling & Testing 75 E 2 nd Street, Mineola, NY	SETTING: NA
DRILLING METHOD: Direct push (Geoprobe)	CASING SIZE & TYPE: NA SETTING: NA
SAMPLING METHOD: Macro core	SEAL TYPE: NA
OBSERVER: Sierra Anseeuw	SETTING:
REFERENCE POINT (RP): Grade	BACKFILL TYPE: Bentonite chips
ELEVATION OF RP: Not measured	STATIC WATER LEVEL: ~26 ft bg
STICK-UP: NA	DEVELOPMENT METHOD: NA
SURFACE COMPLETION: Backfill to grade	DURATION: NA YIELD: NA
REMARKS:	
GPS COORDINATES:	
ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube REC = recovery PPM = parts per million	

DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					
5	9	MC	--	3.1	0	5-5.8: SAND, medium, brown; loose; dry; no odor; no staining
					0	5.8-8.1: SAND, fine, orangish brown; little gravel, small – medium; sub-rounded; semi-compact; dry; no odor; no staining
9	13	MC	--	4.0	0	9-13: SAND, fine, tan; some gravel, small – large, sub-angular; semi-compact; dry; no odor; no staining
13	17	MC	--	3.5	0	13-16.1: SAND, fine, tan; trace gravel, small – large, sub-angular; semi-compact; dry; no odor; no staining
					0	16.1-16.5: SAND, fine – medium, gray; loose; dry; no odor; no staining
17	21	MC	--	3.5	0	17-19: SAND, fine, brown; trace gravel, small – medium, sub-rounded; semi-compact; dry; no odor; no staining
					0	19-19.5: SAND, medium, tan; loose; dry; no odor; no staining
					0	19.5-20: SILT, brown; compact; dry; no odor; no staining

OWNER: Kraft Heinz Food Company (as successor to Kraft Foods Group, Inc.)

WELL NO.: SB19

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DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					
					0	20-20.5: SAND, medium, tan; loose; dry; no odor; no staining
21	25	MC	--	2.5	0	21-22.4: SAND, fine, tan; trace gravel, small, sub-rounded; semi-compact; dry; no odor; no staining
					0	22.4-22.8: Sand and Gravel, fine – medium, sub-rounded, gray; loose; dry; no odor; no staining
					1.8	22.8-23.5: SAND, medium, brown; loose; dry; no odor; no staining
					0	25-26.5: SAND, fine, tan to brown; trace gravel, small, sub-rounded; semi-compact; dry; no odor; no staining
25	29	MC	--	3.2	1.3	26.5-27.6: SAND, medium, light tan; loose; wet; no odor; no staining
					120	27.6-28.2: SAND, fine – medium, brown; semi-compact; wet; slight odor; no staining
					2.9	29-30.7: SAND, medium, light tan; loose; wet; slight odor; no staining
					0	30.7-31.8: Sand and Silt; very fine; gray; semi-compact; wet; very slight odor; no staining
29	33	MC	--	3.9	10.2	31.8-32.8: CLAY, gray, compact; wet; no odor; no staining
					0	32.8-32.9: SAND, medium, light tan; loose; wet; no odor; no staining
--	33	--	--	--	--	End of Boring

APPENDIX

II. GROUNDWATER LOW-FLOW SAMPLING LOGS FOR JUNE 2018



WSP USA

PAGE 1 OF

SAMPLE DATE: 01/19/13

TOTAL # WELLS: 3

LOW-FLOW SAMPLING LOG

Client Name: Power IndustriesSample Pump: GeopumpProject Location: Webb Sag Harbor TurnpikeTubing Type: LDPE - 45Sampler(s): S. AnseuwMonitoring Equipment: HoribaWell I.D. MW-98-05A~~BR~~

Screen Setting (ft btoc): _____ to _____

Well Diameter (inches): 2Tubing Intake (ft btoc): 34Total Depth (ft btoc): 46.15Comments: Pump on at 1132Depth to Water (ft btoc): 26.43Well Condition: Good

Time (hours)	Depth to Water (ft btoc)	Evacuation Rate (ml/min)	Water Quality Monitoring Parameters					
			pH	Conductivity mS/cm	Turbidity (NTU)	Dissolved oxygen (mg/l)	Temperature (°C)	ORP (mv)
1135	20.45	260	6.91	0.257	6.4	2.36	18.41	113
1138			6.17	0.226	2.6	1.36	17.05	114
1141			6.09	0.214	2.3	1.11	16.59	111
1144			6.07	0.203	3.6	0.95	16.25	106
1147			6.02	0.201	3.3	0.85	16.34	107
1150			6.03	0.190	3.3	0.77	16.57	106
1153			6.00	0.184	3.5	0.86	16.28	105
1156			6.01	0.185	3.8	0.80	16.36	103
1159	+	+	5.99	0.184	3.7	0.87	16.37	101

Total Volume of Groundwater Purged (gal): 2

Stabilization of Parameters (stabilization achieved for three consecutive measurements)

Time FROM	Depth to Water (ft btoc) TO	Total Removed > Change in Storage (Y/N)?	pH	Conductivity (%)	Turbidity (%)	Dissolved oxygen (%)	Temperature (%)	ORP (mv)
1153	1156	0	4	0.01	1.1	45	7.0	0.5
1156	1159	0	4	0.02	0.5	1	8.0	0.1
1153	1159	0	4	0.01	1.6	1	0.1	0.5

Recommended Stabilization	≤ 0.3 ft. total	NA	+/- 0.1 unit	+/- 3%	<5 NTU or +/- 10%	+/- 10% if >0.5 mg/L	+/- 3%	+/- 10 mv
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Stabilization: (Yes/No)	Y	Y	Y	Y	Y	Y	Y	Y
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Sample Time:	1205							
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ft btoc	feet below top of casing	NTU	Nephelometric Turbidity Units	°C	degrees Celsius
ml/min	milliliters per minute	mg/l	milligrams per liter	mv	millivolts
µs/cm	microseimens per centimeter	ms/cm	milliseimens per centimeter		



WSP USA

PAGE 1 OF _____SAMPLE DATE: 6/19/18

TOTAL # WELLS: _____

LOW-FLOW SAMPLING LOG

Client Name: Rowe IndustriesSample Pump: GeopumpProject Location: Route 8 Sag Harbor TurnpikeTubing Type: LDPE - 30Sampler(s): S. Anseeuw

Monitoring Equipment: _____

Well I.D. MW-98-01A

Screen Setting (ft btoc): _____ to _____

Well Diameter (inches): 2Tubing Intake (ft btoc): 24Total Depth (ft btoc): 26.76Comments: Pump on at 1252Depth to Water (ft btoc): 21.52Well Condition: Good

Time (hours)	Depth to Water (ft btoc)	Evacuation Rate (ml/min)	Water Quality Monitoring Parameters					
			pH	Conductivity mS/cm	Turbidity (NTU)	Dissolved oxygen (mg/l)	Temperature (°C)	ORP (mv)
1259	21.53	800	6.43	0.174	486	2.85	17.73	33
			* Wait for turbidity to clear					
1333	21.54	800	6.11	0.180	17.0	0.57	15.58	-88
1334			6.11	0.179	13.9	0.57	15.51	-87
1339			6.09	0.179	13.0	0.57	15.59	-87
1342			6.10	0.179	11.9	0.59	15.42	-87
1345			6.09	0.179	9.3	0.58	15.35	-86
1348			6.08	0.179	8.9	0.61	15.31	-86
1350	1	1	6.08	0.178	8.8	0.60	15.31	-87

Total Volume of Groundwater Purged (gal): 45

Stabilization of Parameters (stabilization achieved for three consecutive measurements)								
Time	Depth to Water (ft btoc)	Total Removed > Change in Storage (Y/N)?	pH	Conductivity (%)	Turbidity (%)	Dissolved oxygen (%)	Temperature (%)	ORP (mv)
FROM	TO							
1345	1348	0	4	0.01	4.3	4.9	0.3	0
1348	1351	0	4	0	6.1	1.6	0.3	1
1345	1351	0	4	0.01	6.4	3.3	0	1
Recommended Stabilization	≤ 0.3 ft. total	NA	+/- 0.1 unit	+/- 3%	<5 NTU or +/- 10%	+/- 10% if >0.5 mg/L	+/- 3%	+/- 10 mv

Stabilization: (Yes/No)	Y	Y	Y	Y	Y	Y	Y	Y
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Sample Time: 1355

ft btoc	feet below top of casing	NTU	Nephelometric Turbidity Units	°C	degrees Celsius
ml/min	milliliters per minute	mg/l	milligrams per liter	mv	millivolts
µs/cm	microseimemens per centimeter	ms/cm	milliseimemens per centimeter		



LOW-FLOW SAMPLING LOG

SAMPLE DATE: 6/19/18TOTAL # WELLS: 3Client Name: Pave IndustriesSample Pump: GeopumpProject Location: Velocity Sag Harbor TurnpikeTubing Type: LDPE - 30'Sampler(s): S. AnseeuwMonitoring Equipment: HoribaWell I.D. MW-98-04

Screen Setting (ft btoc): _____ to _____

Well Diameter (inches): 2Tubing Intake (ft btoc): ~22Total Depth (ft btoc): 21.05Comments: Pump on at 1434Depth to Water (ft btoc): 19.15Well Condition: Good

Time (hours)	Depth to Water (ft btoc)	Evacuation Rate (ml/min)	Water Quality Monitoring Parameters					
			pH	Conductivity mS/cm	Turbidity (NTU)	Dissolved oxygen (mg/l)	Temperature (°C)	ORP (mv)
1440	19.15	250	6.08	0.193	160	2.22	18.85	59
			Wait For turbidity					
1455	19.15	250	5.65	0.190	8.0	1.45	15.02	92
1458			5.68	0.193	5.6	1.46	14.96	87
1501			5.73	0.202	4.7	1.47	14.79	85
1504			5.80	0.205	4.8	1.47	14.68	82
1507			5.81	0.208	2.6	1.55	14.85	74
1510			5.83	0.210	2.5	1.51	14.66	77

Total Volume of Groundwater Purged (gal): 2

Stabilization of Parameters (stabilization achieved for three consecutive measurements)

Time	Depth to Water (ft btoc)	Total Removed > Change in Storage (Y/N)?	pH	Conductivity (%)	Turbidity (%)	Dissolved oxygen (%)	Temperature (%)	ORP (mv)
FROM	TO							
1504	1507	0	4	0.01	1.4	45	5.2	1.1
1507	1510	0	4	0.02	2.4	1	2.6	1.3
1504	1510	0	4	0.03	2.1	1	2.6	0.1
Recommended Stabilization	≤ 0.3 ft. total	NA	+/- 0.1 unit	+/- 3%	<5 NTU or +/- 10%	+/- 10% if >0.5 mg/L	+/- 3%	+/- 10 mv
Stabilization: (Yes/No)	✓	✓	✓	✓	✓	✓	✓	✓

Sample Time: 1515

ft btoc	feet below top of casing	NTU	Nephelometric Turbidity Units	°C	degrees Celsius
ml/min	milliliters per minute	mg/l	milligrams per liter	mv	millivolts
μs/cm	microseimins per centimeter	ms/cm	milliseimins per centimeter		

APPENDIX

III. LABORATORY RESULTS FOR JUNE AND JULY 2018 SOIL AND GROUNDWATER QUALITY



Technical Report

prepared for:

WSP USA, Inc. (Shelton)
4 Research Drive, Suite 204
Shelton CT, 06484
Attention: Mark Goldberg

Report Date: 06/29/2018
Client Project ID: 31401451.000
York Project (SDG) No.: 18F0837

Revision No. 1.0

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 06/29/2018
Client Project ID: 31401451.000
York Project (SDG) No.: 18F0837

WSP USA, Inc. (Shelton)
4 Research Drive, Suite 204
Shelton CT, 06484
Attention: Mark Goldberg

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on June 20, 2018 and listed below. The project was identified as your project: **31401451.000**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
18F0837-01	SB17(26-27)	Soil	06/18/2018	06/20/2018
18F0837-02	SB17(29-31)	Soil	06/18/2018	06/20/2018
18F0837-03	SB17(31-32)	Soil	06/18/2018	06/20/2018
18F0837-04	SB18(26-28)	Soil	06/18/2018	06/20/2018
18F0837-05	SB18(29-31)	Soil	06/18/2018	06/20/2018
18F0837-06	SB19(27-29)	Soil	06/18/2018	06/20/2018
18F0837-07	SB19(31-33)	Soil	06/18/2018	06/20/2018
18F0837-08	SB13(22-23)	Soil	06/18/2018	06/20/2018
18F0837-09	SB13(23-24)	Soil	06/18/2018	06/20/2018
18F0837-10	SB15(26-28)	Soil	06/18/2018	06/20/2018
18F0837-11	SB15(31-32)	Soil	06/18/2018	06/20/2018
18F0837-12	SB14(23-24)	Soil	06/18/2018	06/20/2018
18F0837-13	SB14(26-28)	Soil	06/18/2018	06/20/2018
18F0837-14	SB14(31-32)	Soil	06/18/2018	06/20/2018
18F0837-15	SB16(29-30)	Soil	06/18/2018	06/20/2018
18F0837-16	SB16(30-32)	Soil	06/18/2018	06/20/2018

General Notes for York Project (SDG) No.: 18F0837

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 06/29/2018





Sample Information

Client Sample ID: SB17(26-27)

York Sample ID: 18F0837-01

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
18F0837	31401451.000	Soil	June 18, 2018 10:20 am	06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/26/2018 07:30	06/26/2018 16:43	RDS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	06/26/2018 07:30	06/26/2018 16:43	RDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
123-91-1	1,4-Dioxane	ND		ug/kg dry	50	100	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
78-93-3	2-Butanone	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
591-78-6	2-Hexanone	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS



Sample Information

Client Sample ID: SB17(26-27)

York Sample ID: 18F0837-01

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 10:20 am

Date Received
06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
67-64-1	Acetone	29	SCAL-E	ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
107-02-8	Acrolein	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
107-13-1	Acrylonitrile	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
71-43-2	Benzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
74-97-5	Bromochloromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
75-25-2	Bromoform	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
74-83-9	Bromomethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
75-15-0	Carbon disulfide	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
75-00-3	Chloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
67-66-3	Chloroform	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
74-87-3	Chloromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
110-82-7	Cyclohexane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
74-95-3	Dibromomethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS



Sample Information

Client Sample ID: SB17(26-27)

York Sample ID: 18F0837-01

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 10:20 am

Date Received
06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
79-20-9	Methyl acetate	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
75-09-2	Methylene chloride	6.6	SCAL-E, J	ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
95-47-6	o-Xylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
100-42-5	Styrene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.5	10	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
108-88-3	Toluene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH	06/26/2018 07:30	06/26/2018 16:43	RDS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:43	RDS
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.5	15	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/26/2018 07:30	06/26/2018 16:43	RDS

Surrogate Recoveries

Result

Acceptance Range



Sample Information

Client Sample ID: SB17(26-27)

York Sample ID: 18F0837-01

York Project (SDG) No.

18F0837

Client Project ID

31401451.000

Matrix

Soil

Collection Date/Time

June 18, 2018 10:20 am

Date Received

06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	102 %			77-125						
2037-26-5	Surrogate: Toluene-d8	262 %	S-09		85-120						
460-00-4	Surrogate: p-Bromofluorobenzene	93.9 %			76-130						

Total Solids

Sample Prepared by Method: % Solids Prep

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	80.6		%	0.100	1	SM 2540G	06/27/2018 10:03	06/27/2018 16:09	LAB

Analyzed by: Phoenix Environmental Laboratories, Inc. S

Total Organic Carbon (TOC-SUB)

Sample Prepared by Method: *** DEFAULT PREP ***

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Organic Carbon (TOC)	4500		mg/kg	100	1	SW9060A/L.. Kahn	06/20/2018 00:00	06/23/2018 00:00	PHO

Sample Information

Client Sample ID: SB17(29-31)

York Sample ID: 18F0837-02

York Project (SDG) No.

18F0837

Client Project ID

31401451.000

Matrix

Soil

Collection Date/Time

June 18, 2018 10:30 am

Date Received

06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C	06/26/2018 07:30	06/26/2018 15:50	RDS
					Certifications:			CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C	06/26/2018 07:30	06/26/2018 15:50	RDS
					Certifications:			CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C	06/26/2018 07:30	06/26/2018 15:50	RDS
					Certifications:			CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	3.1	6.1	1	EPA 8260C	06/26/2018 07:30	06/26/2018 15:50	RDS
					Certifications:			CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			



Sample Information

Client Sample ID: SB17(29-31)

York Sample ID: 18F0837-02

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 10:30 am

Date Received
06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
96-18-4	1,2,3-Trichloroproppane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	06/26/2018 07:30	06/26/2018 15:50	RDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
78-87-5	1,2-Dichloroproppane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
123-91-1	1,4-Dioxane	ND		ug/kg dry	61	120	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
78-93-3	2-Butanone	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
591-78-6	2-Hexanone	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
67-64-1	Acetone	29	SCAL-E	ug/kg dry	6.1	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
107-02-8	Acrolein	ND		ug/kg dry	6.1	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
107-13-1	Acrylonitrile	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
71-43-2	Benzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS



Sample Information

Client Sample ID: SB17(29-31)

York Sample ID: 18F0837-02

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 10:30 am

Date Received
06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-97-5	Bromochloromethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
75-27-4	Bromodichloromethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
75-25-2	Bromoform	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
74-83-9	Bromomethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
75-15-0	Carbon disulfide	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
108-90-7	Chlorobenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
75-00-3	Chloroethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
67-66-3	Chloroform	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
74-87-3	Chloromethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
110-82-7	Cyclohexane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
124-48-1	Dibromochloromethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
74-95-3	Dibromomethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
100-41-4	Ethyl Benzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
98-82-8	Isopropylbenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
79-20-9	Methyl acetate	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
108-87-2	Methylcyclohexane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
75-09-2	Methylene chloride	8.1	SCAL-E, J	ug/kg dry	6.1	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS



Sample Information

Client Sample ID: SB17(29-31)

York Sample ID: 18F0837-02

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 10:30 am

Date Received
06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
104-51-8	n-Butylbenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
103-65-1	n-Propylbenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
95-47-6	o-Xylene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	6.1	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
100-42-5	Styrene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	3.1	12	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
127-18-4	Tetrachloroethylene	4.1	J	ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
108-88-3	Toluene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH	06/26/2018 07:30	06/26/2018 15:50	RDS
79-01-6	Trichloroethylene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
75-01-4	Vinyl Chloride	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 15:50	RDS
1330-20-7	Xylenes, Total	ND		ug/kg dry	9.2	18	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/26/2018 07:30	06/26/2018 15:50	RDS

Surrogate Recoveries	Result	Acceptance Range
Surrogate: 1,2-Dichloroethane-d4	105 %	77-125
Surrogate: Toluene-d8	106 %	85-120
Surrogate: p-Bromofluorobenzene	104 %	76-130

Total Solids

Sample Prepared by Method: % Solids Prep

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120 RESEARCH DRIVE	STRATFORD, CT 06615		■		132-02 89th AVENUE			RICHMOND HILL, NY 11418		
www.YORKLAB.com	(203) 325-1371				FAX (203) 357-0166			ClientServices@	Page 10 of 85	



Sample Information

Client Sample ID: SB17(29-31)

York Sample ID: 18F0837-02

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 10:30 am

Date Received
06/20/2018

Total Solids

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	84.3		%	0.100	1	SM 2540G Certifications: CTDOH	06/27/2018 10:03	06/27/2018 16:09	LAB

Sample Information

Client Sample ID: SB17(31-32)

York Sample ID: 18F0837-03

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 10:35 am

Date Received
06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/25/2018 14:30	06/26/2018 02:44	RDS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	06/25/2018 14:30	06/26/2018 02:44	RDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS



Sample Information

Client Sample ID: SB17(31-32)

York Sample ID: 18F0837-03

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 10:35 am

Date Received
06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
123-91-1	1,4-Dioxane	ND		ug/kg dry	50	99	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
78-93-3	2-Butanone	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
591-78-6	2-Hexanone	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
67-64-1	Acetone	35	SCALE	ug/kg dry	5.0	9.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
107-02-8	Acrolein	ND		ug/kg dry	5.0	9.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
107-13-1	Acrylonitrile	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
71-43-2	Benzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
74-97-5	Bromochloromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
75-25-2	Bromoform	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
74-83-9	Bromomethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
75-15-0	Carbon disulfide	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
75-00-3	Chloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
67-66-3	Chloroform	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
74-87-3	Chloromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS



Sample Information

Client Sample ID: SB17(31-32)

York Sample ID: 18F0837-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18F0837	31401451.000	Soil	June 18, 2018 10:35 am	06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
110-82-7	Cyclohexane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
74-95-3	Dibromomethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
79-20-9	Methyl acetate	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
75-09-2	Methylene chloride	7.7	SCAL-E, J	ug/kg dry	5.0	9.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
95-47-6	o-Xylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.0	9.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
100-42-5	Styrene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.5	9.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS



Sample Information

Client Sample ID: SB17(31-32)

York Sample ID: 18F0837-03

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 10:35 am

Date Received
06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-88-3	Toluene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH	06/25/2018 14:30	06/26/2018 02:44	RDS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 02:44	RDS
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.4	15	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/25/2018 14:30	06/26/2018 02:44	RDS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	111 %			77-125						
2037-26-5	Surrogate: Toluene-d8	104 %			85-120						
460-00-4	Surrogate: p-Bromofluorobenzene	95.2 %			76-130						

Total Solids

Sample Prepared by Method: % Solids Prep

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	79.4		%	0.100	1	SM 2540G Certifications: CTDOH	06/27/2018 10:03	06/27/2018 16:09	LAB

Sample Information

Client Sample ID: SB18(26-28)

York Sample ID: 18F0837-04

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 11:20 am

Date Received
06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS



Sample Information

Client Sample ID: SB18(26-28)

York Sample ID: 18F0837-04

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 11:20 am

Date Received
06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/25/2018 14:30	06/26/2018 03:11	RDS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	06/25/2018 14:30	06/26/2018 03:11	RDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
123-91-1	1,4-Dioxane	ND		ug/kg dry	49	98	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
78-93-3	2-Butanone	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
591-78-6	2-Hexanone	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
67-64-1	Acetone	29	SCAL-E	ug/kg dry	4.9	9.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS



Sample Information

Client Sample ID: SB18(26-28)

York Sample ID: 18F0837-04

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
18F0837	31401451.000	Soil	June 18, 2018 11:20 am	06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-02-8	Acrolein	ND		ug/kg dry	4.9	9.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
107-13-1	Acrylonitrile	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
71-43-2	Benzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
74-97-5	Bromochloromethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
75-25-2	Bromoform	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
74-83-9	Bromomethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
75-15-0	Carbon disulfide	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
75-00-3	Chloroethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
67-66-3	Chloroform	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
74-87-3	Chloromethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
110-82-7	Cyclohexane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
74-95-3	Dibromomethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
79-20-9	Methyl acetate	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS



Sample Information

Client Sample ID: SB18(26-28)

York Sample ID: 18F0837-04

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 11:20 am

Date Received
06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
75-09-2	Methylene chloride	ND		ug/kg dry	4.9	9.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
95-47-6	o-Xylene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.9	9.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
100-42-5	Styrene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.5	9.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
108-88-3	Toluene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH	06/25/2018 14:30	06/26/2018 03:11	RDS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:11	RDS
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.4	15	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/25/2018 14:30	06/26/2018 03:11	RDS

Surrogate Recoveries

	Result	Acceptance Range
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	101 %
2037-26-5	Surrogate: Toluene-d8	117 %
460-00-4	Surrogate: p-Bromofluorobenzene	101 %
		76-130



Sample Information

Client Sample ID: SB18(26-28)

York Sample ID: 18F0837-04

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 11:20 am

Date Received
06/20/2018

Total Solids

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	79.8		%	0.100	1	SM 2540G	06/27/2018 10:03	06/27/2018 16:09	LAB

Log-in Notes:

Sample Notes:

Analyzed by: Phoenix Environmental Laboratories, Inc. S

Total Organic Carbon (TOC-SUB)

Sample Prepared by Method: *** DEFAULT PREP ***

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Organic Carbon (TOC)	13000		mg/kg	100	1	SW9060A/L.. Kahn	06/20/2018 00:00	06/23/2018 00:00	PHO

Sample Information

Client Sample ID: SB18(29-31)

York Sample ID: 18F0837-05

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 11:30 am

Date Received
06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C	06/25/2018 14:30	06/26/2018 03:38	RDS
					Certifications:			CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C	06/25/2018 14:30	06/26/2018 03:38	RDS
					Certifications:			CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C	06/25/2018 14:30	06/26/2018 03:38	RDS
					Certifications:			CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.4	4.9	1	EPA 8260C	06/25/2018 14:30	06/26/2018 03:38	RDS
					Certifications:			CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C	06/25/2018 14:30	06/26/2018 03:38	RDS
					Certifications:			CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C	06/25/2018 14:30	06/26/2018 03:38	RDS
					Certifications:			CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C	06/25/2018 14:30	06/26/2018 03:38	RDS
					Certifications:			CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C	06/25/2018 14:30	06/26/2018 03:38	RDS
					Certifications:			NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			



Sample Information

Client Sample ID: SB18(29-31)

York Sample ID: 18F0837-05

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 11:30 am

Date Received
06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	06/25/2018 14:30	06/26/2018 03:38	RDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
123-91-1	1,4-Dioxane	ND		ug/kg dry	49	97	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
78-93-3	2-Butanone	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
591-78-6	2-Hexanone	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
67-64-1	Acetone	29	SCAL-E	ug/kg dry	4.9	9.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
107-02-8	Acrolein	ND		ug/kg dry	4.9	9.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
107-13-1	Acrylonitrile	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
71-43-2	Benzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
74-97-5	Bromochloromethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
75-25-2	Bromoform	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
74-83-9	Bromomethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS



Sample Information

Client Sample ID: SB18(29-31)

York Sample ID: 18F0837-05

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 11:30 am

Date Received
06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-15-0	Carbon disulfide	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
75-00-3	Chloroethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
67-66-3	Chloroform	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
74-87-3	Chloromethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
110-82-7	Cyclohexane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
74-95-3	Dibromomethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
79-20-9	Methyl acetate	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
108-87-2	Methylcyclohexane	2.9	J	ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
75-09-2	Methylene chloride	ND		ug/kg dry	4.9	9.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
95-47-6	o-Xylene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.9	9.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS



Sample Information

Client Sample ID: SB18(29-31)

York Sample ID: 18F0837-05

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 11:30 am

Date Received
06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
100-42-5	Styrene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.4	9.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
108-88-3	Toluene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH	06/25/2018 14:30	06/26/2018 03:38	RDS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 03:38	RDS
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.3	15	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/25/2018 14:30	06/26/2018 03:38	RDS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	101 %	77-125								
2037-26-5	Surrogate: Toluene-d8	114 %	85-120								
460-00-4	Surrogate: p-Bromofluorobenzene	96.6 %	76-130								

Total Solids

Sample Prepared by Method: % Solids Prep

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	78.5		%	0.100	1	SM 2540G Certifications: CTDOH	06/27/2018 10:03	06/27/2018 16:09	LAB



Sample Information

Client Sample ID: SB19(27-29)

York Sample ID: 18F0837-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18F0837	31401451.000	Soil	June 18, 2018 12:40 pm	06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/26/2018 07:30	06/26/2018 22:07	RDS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	06/26/2018 07:30	06/26/2018 22:07	RDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
123-91-1	1,4-Dioxane	ND		ug/kg dry	5400	11000	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
78-93-3	2-Butanone	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
591-78-6	2-Hexanone	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS



Sample Information

Client Sample ID: SB19(27-29)

York Sample ID: 18F0837-06

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 12:40 pm

Date Received
06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	Acetone	ND		ug/kg dry	540	1100	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
107-02-8	Acrolein	ND		ug/kg dry	540	1100	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
107-13-1	Acrylonitrile	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
71-43-2	Benzene	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
74-97-5	Bromochloromethane	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
75-27-4	Bromodichloromethane	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
75-25-2	Bromoform	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
74-83-9	Bromomethane	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
75-15-0	Carbon disulfide	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
108-90-7	Chlorobenzene	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
75-00-3	Chloroethane	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
67-66-3	Chloroform	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
74-87-3	Chloromethane	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
110-82-7	Cyclohexane	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
124-48-1	Dibromochloromethane	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
74-95-3	Dibromomethane	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
100-41-4	Ethyl Benzene	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
98-82-8	Isopropylbenzene	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS



Sample Information

Client Sample ID: SB19(27-29)

York Sample ID: 18F0837-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18F0837	31401451.000	Soil	June 18, 2018 12:40 pm	06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
108-87-2	Methylcyclohexane	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
75-09-2	Methylene chloride	ND		ug/kg dry	540	1100	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
104-51-8	n-Butylbenzene	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
103-65-1	n-Propylbenzene	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
95-47-6	o-Xylene	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	540	1100	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
100-42-5	Styrene	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	270	1100	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
127-18-4	Tetrachloroethylene	650		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
108-88-3	Toluene	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH	06/26/2018 07:30	06/26/2018 22:07	RDS
79-01-6	Trichloroethylene	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
75-01-4	Vinyl Chloride	ND		ug/kg dry	270	540	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:07	RDS
1330-20-7	Xylenes, Total	ND		ug/kg dry	810	1600	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/26/2018 07:30	06/26/2018 22:07	RDS

Surrogate Recoveries Result Acceptance Range

17060-07-0	Surrogate: 1,2-Dichloroethane-d4	78.7 %	77-125
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Sample Information

<u>Client Sample ID:</u> SB19(27-29)	<u>York Sample ID:</u> 18F0837-06			
<u>York Project (SDG) No.</u> 18F0837	<u>Client Project ID</u> 31401451.000	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 18, 2018 12:40 pm	<u>Date Received</u> 06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	Surrogate: Toluene-d8	232 %	S-09		85-120						
460-00-4	Surrogate: p-Bromofluorobenzene	94.5 %			76-130						

Total Solids

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	82.5		%	0.100	1	SM 2540G	06/27/2018 10:03	06/27/2018 16:09	LAB

Analyzed by: Phoenix Environmental Laboratories, Inc. S

Total Organic Carbon (TOC-SUB)

Sample Prepared by Method: *** DEFAULT PREP ***

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Organic Carbon (TOC)	12000		mg/kg	100	1	SW9060A/L.. Kahn	06/20/2018 00:00	06/23/2018 00:00	PHO

Sample Information

<u>Client Sample ID:</u> SB19(31-33)	<u>York Sample ID:</u> 18F0837-07			
<u>York Project (SDG) No.</u> 18F0837	<u>Client Project ID</u> 31401451.000	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 18, 2018 12:50 pm	<u>Date Received</u> 06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C	06/25/2018 14:30	06/26/2018 04:32	RDS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C	06/25/2018 14:30	06/26/2018 04:32	RDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C	06/25/2018 14:30	06/26/2018 04:32	RDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.7	5.4	1	EPA 8260C	06/25/2018 14:30	06/26/2018 04:32	RDS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C	06/25/2018 14:30	06/26/2018 04:32	RDS



Sample Information

Client Sample ID: SB19(31-33)

York Sample ID: 18F0837-07

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 12:50 pm

Date Received
06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	06/25/2018 14:30	06/26/2018 04:32	RDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
123-91-1	1,4-Dioxane	ND		ug/kg dry	54	110	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
78-93-3	2-Butanone	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
591-78-6	2-Hexanone	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
67-64-1	Acetone	19	SCAL-E	ug/kg dry	5.4	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
107-02-8	Acrolein	ND		ug/kg dry	5.4	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
107-13-1	Acrylonitrile	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
71-43-2	Benzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
74-97-5	Bromochloromethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS



Sample Information

Client Sample ID: SB19(31-33)

York Sample ID: 18F0837-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18F0837	31401451.000	Soil	June 18, 2018 12:50 pm	06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
75-25-2	Bromoform	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
74-83-9	Bromomethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
75-15-0	Carbon disulfide	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
75-00-3	Chloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
67-66-3	Chloroform	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
74-87-3	Chloromethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
110-82-7	Cyclohexane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
74-95-3	Dibromomethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
79-20-9	Methyl acetate	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
75-09-2	Methylene chloride	6.5	SCAL-E, J	ug/kg dry	5.4	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS



Sample Information

Client Sample ID: SB19(31-33)

York Sample ID: 18F0837-07

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 12:50 pm

Date Received
06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
95-47-6	o-Xylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.4	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
100-42-5	Styrene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.7	11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
108-88-3	Toluene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH	06/25/2018 14:30	06/26/2018 04:32	RDS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:32	RDS
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.0	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/25/2018 14:30	06/26/2018 04:32	RDS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	99.5 %	77-125								
2037-26-5	Surrogate: Toluene-d8	109 %	85-120								
460-00-4	Surrogate: p-Bromofluorobenzene	96.0 %	76-130								

Total Solids

Sample Prepared by Method: % Solids Prep

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	76.8		%	0.100	1	SM 2540G Certifications: CTDOH	06/27/2018 10:03	06/27/2018 16:09	LAB
120 RESEARCH DRIVE www.YORKLAB.com	STRATFORD, CT 06615 (203) 325-1371		■	132-02 89th AVENUE FAX (203) 357-0166			RICHMOND HILL, NY 11418 ClientServices@		Page 28 of 85	



Sample Information

Client Sample ID: SB19(31-33)

York Sample ID: 18F0837-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18F0837	31401451.000	Soil	June 18, 2018 12:50 pm	06/20/2018

Sample Information

Client Sample ID: SB13(22-23)

York Sample ID: 18F0837-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18F0837	31401451.000	Soil	June 18, 2018 2:25 pm	06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/25/2018 14:30	06/26/2018 04:59	RDS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	06/25/2018 14:30	06/26/2018 04:59	RDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS



Sample Information

Client Sample ID: SB13(22-23)

York Sample ID: 18F0837-08

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
18F0837	31401451.000	Soil	June 18, 2018 2:25 pm	06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
123-91-1	1,4-Dioxane	ND		ug/kg dry	43	85	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
78-93-3	2-Butanone	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
591-78-6	2-Hexanone	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
67-64-1	Acetone	22	SCAL-E	ug/kg dry	4.3	8.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
107-02-8	Acrolein	ND		ug/kg dry	4.3	8.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
107-13-1	Acrylonitrile	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
71-43-2	Benzene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
74-97-5	Bromochloromethane	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
75-25-2	Bromoform	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
74-83-9	Bromomethane	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
75-15-0	Carbon disulfide	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
75-00-3	Chloroethane	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
67-66-3	Chloroform	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
74-87-3	Chloromethane	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
110-82-7	Cyclohexane	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS



Sample Information

Client Sample ID: SB13(22-23)

York Sample ID: 18F0837-08

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 2:25 pm

Date Received
06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-95-3	Dibromomethane	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
79-20-9	Methyl acetate	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
75-09-2	Methylene chloride	5.7	SCAL-E, J	ug/kg dry	4.3	8.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
95-47-6	o-Xylene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.3	8.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
100-42-5	Styrene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.1	8.5	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
127-18-4	Tetrachloroethylene	190		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
108-88-3	Toluene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH	06/25/2018 14:30	06/26/2018 04:59	RDS



Sample Information

Client Sample ID: SB13(22-23)

York Sample ID: 18F0837-08

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 2:25 pm

Date Received
06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst		
79-01-6	Trichloroethylene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS		
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS		
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS		
1330-20-7	Xylenes, Total	ND		ug/kg dry	6.4	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 04:59	RDS		
Surrogate Recoveries		Result	Acceptance Range										
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	107 %			77-125								
2037-26-5	Surrogate: Toluene-d8	106 %			85-120								
460-00-4	Surrogate: p-Bromofluorobenzene	95.2 %			76-130								

Total Solids

Sample Prepared by Method: % Solids Prep

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	90.9		%	0.100	1	SM 2540G Certifications: CTDOH	06/27/2018 10:03	06/27/2018 16:09	LAB

Sample Information

Client Sample ID: SB13(23-24)

York Sample ID: 18F0837-09

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 2:30 pm

Date Received
06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	260	520	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	260	520	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	260	520	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	260	520	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/26/2018 07:30	06/26/2018 22:34	RDS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	260	520	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS



Sample Information

Client Sample ID: SB13(23-24)

York Sample ID: 18F0837-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18F0837	31401451.000	Soil	June 18, 2018 2:30 pm	06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	260	520	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	260	520	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	260	520	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	260	520	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	06/26/2018 07:30	06/26/2018 22:34	RDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	260	520	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
95-63-6	1,2,4-Trimethylbenzene	640		ug/kg dry	260	520	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	260	520	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	260	520	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	260	520	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	260	520	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	260	520	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
108-67-8	1,3,5-Trimethylbenzene	1500		ug/kg dry	260	520	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	260	520	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	260	520	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
123-91-1	1,4-Dioxane	ND		ug/kg dry	5200	10000	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
78-93-3	2-Butanone	ND		ug/kg dry	260	520	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
591-78-6	2-Hexanone	ND		ug/kg dry	260	520	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	260	520	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
67-64-1	Acetone	ND		ug/kg dry	520	1000	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
107-02-8	Acrolein	ND		ug/kg dry	520	1000	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
107-13-1	Acrylonitrile	ND		ug/kg dry	260	520	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
71-43-2	Benzene	ND		ug/kg dry	260	520	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
74-97-5	Bromochloromethane	ND		ug/kg dry	260	520	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS



Sample Information

Client Sample ID: SB13(23-24)

York Sample ID: 18F0837-09

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 2:30 pm

Date Received
06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-27-4	Bromodichloromethane	ND		ug/kg dry	260	520	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
75-25-2	Bromoform	ND		ug/kg dry	260	520	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
74-83-9	Bromomethane	ND		ug/kg dry	260	520	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
75-15-0	Carbon disulfide	ND		ug/kg dry	260	520	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	260	520	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
108-90-7	Chlorobenzene	ND		ug/kg dry	260	520	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
75-00-3	Chloroethane	ND		ug/kg dry	260	520	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
67-66-3	Chloroform	ND		ug/kg dry	260	520	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
74-87-3	Chloromethane	ND		ug/kg dry	260	520	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	260	520	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	260	520	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
110-82-7	Cyclohexane	ND		ug/kg dry	260	520	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
124-48-1	Dibromochloromethane	ND		ug/kg dry	260	520	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
74-95-3	Dibromomethane	ND		ug/kg dry	260	520	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	260	520	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
100-41-4	Ethyl Benzene	ND		ug/kg dry	260	520	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	260	520	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
98-82-8	Isopropylbenzene	1300		ug/kg dry	260	520	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
79-20-9	Methyl acetate	ND		ug/kg dry	260	520	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	260	520	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
108-87-2	Methylcyclohexane	18000		ug/kg dry	260	520	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
75-09-2	Methylene chloride	ND		ug/kg dry	520	1000	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS
104-51-8	n-Butylbenzene	290	CCV-E, J	ug/kg dry	260	520	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 22:34	RDS



Sample Information

Client Sample ID: SB13(23-24)

York Sample ID: 18F0837-09

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 2:30 pm

Date Received
06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
103-65-1	n-Propylbenzene	1100		ug/kg dry	260	520	100	EPA 8260C	06/26/2018 07:30	06/26/2018 22:34	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-47-6	o-Xylene	ND		ug/kg dry	260	520	100	EPA 8260C	06/26/2018 07:30	06/26/2018 22:34	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	520	1000	100	EPA 8260C	06/26/2018 07:30	06/26/2018 22:34	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
99-87-6	p-Isopropyltoluene	340	J	ug/kg dry	260	520	100	EPA 8260C	06/26/2018 07:30	06/26/2018 22:34	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
135-98-8	sec-Butylbenzene	ND		ug/kg dry	260	520	100	EPA 8260C	06/26/2018 07:30	06/26/2018 22:34	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-42-5	Styrene	ND		ug/kg dry	260	520	100	EPA 8260C	06/26/2018 07:30	06/26/2018 22:34	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	260	1000	100	EPA 8260C	06/26/2018 07:30	06/26/2018 22:34	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-06-6	tert-Butylbenzene	ND		ug/kg dry	260	520	100	EPA 8260C	06/26/2018 07:30	06/26/2018 22:34	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
127-18-4	Tetrachloroethylene	630000		ug/kg dry	26000	52000	10000	EPA 8260C	06/27/2018 07:30	06/27/2018 12:02	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-88-3	Toluene	ND		ug/kg dry	260	520	100	EPA 8260C	06/26/2018 07:30	06/26/2018 22:34	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	260	520	100	EPA 8260C	06/26/2018 07:30	06/26/2018 22:34	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	260	520	100	EPA 8260C	06/26/2018 07:30	06/26/2018 22:34	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	260	520	100	EPA 8260C	06/26/2018 07:30	06/26/2018 22:34	RDS
								Certifications:	CTDOH		
79-01-6	Trichloroethylene	920		ug/kg dry	260	520	100	EPA 8260C	06/26/2018 07:30	06/26/2018 22:34	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	260	520	100	EPA 8260C	06/26/2018 07:30	06/26/2018 22:34	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-01-4	Vinyl Chloride	ND		ug/kg dry	260	520	100	EPA 8260C	06/26/2018 07:30	06/26/2018 22:34	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1330-20-7	Xylenes, Total	ND		ug/kg dry	780	1600	100	EPA 8260C	06/26/2018 07:30	06/26/2018 22:34	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP		

Surrogate Recoveries

	Result	Acceptance Range	
17060-07-0	<i>Surrogate: 1,2-Dichloroethane-d4</i>	94.3 %	77-125
2037-26-5	<i>Surrogate: Toluene-d8</i>	182 %	S-09
460-00-4	<i>Surrogate: p-Bromoformobenzene</i>	92.3 %	76-130

Total Solids

Sample Prepared by Method: % Solids Prep

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Sample Information

Client Sample ID: SB13(23-24)

York Sample ID: 18F0837-09

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 2:30 pm

Date Received
06/20/2018

Total Solids

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	74.2		%	0.100	1	SM 2540G	06/27/2018 10:03	06/27/2018 16:09	LAB

Log-in Notes:

Sample Notes:

Analyzed by: Phoenix Environmental Laboratories, Inc. S

Total Organic Carbon (TOC-SUB)

Sample Prepared by Method: *** DEFAULT PREP ***

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Organic Carbon (TOC)	36000		mg/kg	100	1	SW9060A/L.. Kahn	06/20/2018 00:00	06/23/2018 00:00	PHO

Sample Information

Client Sample ID: SB15(26-28)

York Sample ID: 18F0837-10

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 3:50 pm

Date Received
06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C	06/27/2018 07:30	06/27/2018 13:07	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C	06/27/2018 07:30	06/27/2018 13:07	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C	06/27/2018 07:30	06/27/2018 13:07	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.7	5.4	1	EPA 8260C	06/27/2018 07:30	06/27/2018 13:07	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C	06/27/2018 07:30	06/27/2018 13:07	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C	06/27/2018 07:30	06/27/2018 13:07	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C	06/27/2018 07:30	06/27/2018 13:07	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C	06/27/2018 07:30	06/27/2018 13:07	SS
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB15(26-28)

York Sample ID: 18F0837-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18F0837	31401451.000	Soil	June 18, 2018 3:50 pm	06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	06/27/2018 07:30	06/27/2018 13:07	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	54	110	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
78-93-3	2-Butanone	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
591-78-6	2-Hexanone	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
67-64-1	Acetone	25	SCAL-E	ug/kg dry	5.4	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
107-02-8	Acrolein	ND		ug/kg dry	5.4	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
71-43-2	Benzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
75-25-2	Bromoform	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
74-83-9	Bromomethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS



Sample Information

Client Sample ID: SB15(26-28)

York Sample ID: 18F0837-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18F0837	31401451.000	Soil	June 18, 2018 3:50 pm	06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-15-0	Carbon disulfide	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
75-00-3	Chloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
67-66-3	Chloroform	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
74-87-3	Chloromethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
110-82-7	Cyclohexane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
74-95-3	Dibromomethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
79-20-9	Methyl acetate	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
75-09-2	Methylene chloride	12		ug/kg dry	5.4	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.4	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS



Sample Information

Client Sample ID: SB15(26-28)

York Sample ID: 18F0837-10

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 3:50 pm

Date Received
06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
100-42-5	Styrene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.7	27	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
108-88-3	Toluene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH	06/27/2018 07:30	06/27/2018 13:07	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 13:07	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.1	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/27/2018 07:30	06/27/2018 13:07	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	93.1 %	77-125								
2037-26-5	Surrogate: Toluene-d8	104 %	85-120								
460-00-4	Surrogate: p-Bromofluorobenzene	120 %	76-130								

Total Solids

Sample Prepared by Method: % Solids Prep

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	84.6		%	0.100	1	SM 2540G Certifications: CTDOH	06/27/2018 10:03	06/27/2018 16:09	LAB

Analyzed by: Phoenix Environmental Laboratories, Inc. S

Total Organic Carbon (TOC-SUB)

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB15(26-28)

York Sample ID: 18F0837-10

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
18F0837	31401451.000	Soil	June 18, 2018 3:50 pm	06/20/2018

Analyzed by: Phoenix Environmental Laboratories, Inc. S

Sample Prepared by Method: *** DEFAULT PREP ***

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Organic Carbon (TOC)	6000		mg/kg	100	1	SW9060A/L.. Kahn Certifications:	06/20/2018 00:00	06/23/2018 00:00	PHO

Sample Information

Client Sample ID: SB15(31-32)

York Sample ID: 18F0837-11

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
18F0837	31401451.000	Soil	June 18, 2018 4:00 pm	06/20/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/25/2018 14:30	06/26/2018 06:20	RDS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
96-18-4	1,2,3-Trichloroproppane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	06/25/2018 14:30	06/26/2018 06:20	RDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS



Sample Information

Client Sample ID: SB15(31-32)

York Sample ID: 18F0837-11

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 4:00 pm

Date Received
06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
123-91-1	1,4-Dioxane	ND		ug/kg dry	48	95	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
78-93-3	2-Butanone	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
591-78-6	2-Hexanone	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
67-64-1	Acetone	13	SCALE	ug/kg dry	4.8	9.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
107-02-8	Acrolein	ND		ug/kg dry	4.8	9.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
107-13-1	Acrylonitrile	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
71-43-2	Benzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
74-97-5	Bromochloromethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
75-25-2	Bromoform	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
74-83-9	Bromomethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
75-15-0	Carbon disulfide	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
75-00-3	Chloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
67-66-3	Chloroform	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
74-87-3	Chloromethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS



Sample Information

Client Sample ID: SB15(31-32)

York Sample ID: 18F0837-11

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 4:00 pm

Date Received
06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
110-82-7	Cyclohexane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
74-95-3	Dibromomethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
79-20-9	Methyl acetate	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
75-09-2	Methylene chloride	5.6	SCAL-E, J	ug/kg dry	4.8	9.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
95-47-6	o-Xylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.8	9.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
100-42-5	Styrene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.4	9.5	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS



Sample Information

Client Sample ID: SB15(31-32)

York Sample ID: 18F0837-11

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 4:00 pm

Date Received
06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst		
108-88-3	Toluene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS		
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH	06/25/2018 14:30	06/26/2018 06:20	RDS		
79-01-6	Trichloroethylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS		
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS		
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:20	RDS		
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.1	14	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/25/2018 14:30	06/26/2018 06:20	RDS		
Surrogate Recoveries		Result	Acceptance Range										
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	98.3 %			77-125								
2037-26-5	Surrogate: Toluene-d8	102 %			85-120								
460-00-4	Surrogate: p-Bromofluorobenzene	96.6 %			76-130								

Total Solids

Sample Prepared by Method: % Solids Prep

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	80.3		%	0.100	1	SM 2540G Certifications: CTDOH	06/27/2018 10:03	06/27/2018 16:09	LAB

Sample Information

Client Sample ID: SB14(23-24)

York Sample ID: 18F0837-12

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 4:45 pm

Date Received
06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS



Sample Information

Client Sample ID: SB14(23-24)

York Sample ID: 18F0837-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18F0837	31401451.000	Soil	June 18, 2018 4:45 pm	06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/25/2018 14:30	06/26/2018 06:47	RDS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
96-18-4	1,2,3-Trichloroproppane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	06/25/2018 14:30	06/26/2018 06:47	RDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
108-67-8	1,3,5-Trimethylbenzene	3.4	J	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
123-91-1	1,4-Dioxane	ND		ug/kg dry	52	100	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
78-93-3	2-Butanone	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
591-78-6	2-Hexanone	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
67-64-1	Acetone	12	SCAL-E	ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS



Sample Information

Client Sample ID: SB14(23-24)

York Sample ID: 18F0837-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18F0837	31401451.000	Soil	June 18, 2018 4:45 pm	06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-02-8	Acrolein	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
107-13-1	Acrylonitrile	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
71-43-2	Benzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
74-97-5	Bromochloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
75-25-2	Bromoform	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
74-83-9	Bromomethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
75-15-0	Carbon disulfide	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
75-00-3	Chloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
67-66-3	Chloroform	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
74-87-3	Chloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
110-82-7	Cyclohexane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
74-95-3	Dibromomethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
98-82-8	Isopropylbenzene	2.6	J	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
79-20-9	Methyl acetate	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS



Sample Information

Client Sample ID: SB14(23-24)

York Sample ID: 18F0837-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18F0837	31401451.000	Soil	June 18, 2018 4:45 pm	06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
75-09-2	Methylene chloride	7.4	SCAL-E, J	ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
103-65-1	n-Propylbenzene	3.0	J	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
95-47-6	o-Xylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
100-42-5	Styrene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.6	10	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
127-18-4	Tetrachloroethylene	110		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
108-88-3	Toluene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH	06/25/2018 14:30	06/26/2018 06:47	RDS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 06:47	RDS
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.8	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/25/2018 14:30	06/26/2018 06:47	RDS

Surrogate Recoveries

	Result	Acceptance Range
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	100 %
2037-26-5	Surrogate: Toluene-d8	107 %
460-00-4	Surrogate: p-Bromoform	99.0 %



Sample Information

Client Sample ID: SB14(23-24)

York Sample ID: 18F0837-12

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 4:45 pm

Date Received
06/20/2018

Total Solids

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	97.7		%	0.100	1	SM 2540G Certifications: CTDOH	06/27/2018 10:03	06/27/2018 16:09	LAB

Sample Information

Client Sample ID: SB14(26-28)

York Sample ID: 18F0837-13

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 4:50 pm

Date Received
06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/27/2018 07:30	06/27/2018 12:33	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	06/27/2018 07:30	06/27/2018 12:33	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS



Sample Information

Client Sample ID: SB14(26-28)

York Sample ID: 18F0837-13

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 4:50 pm

Date Received
06/20/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes: Rep-04

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	53000	110000	1000	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
78-93-3	2-Butanone	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
591-78-6	2-Hexanone	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
67-64-1	Acetone	ND		ug/kg dry	5300	11000	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
107-02-8	Acrolein	ND		ug/kg dry	5300	11000	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
71-43-2	Benzene	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
75-25-2	Bromoform	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
74-83-9	Bromomethane	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
75-00-3	Chloroethane	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
67-66-3	Chloroform	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
74-87-3	Chloromethane	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS



Sample Information

Client Sample ID: SB14(26-28)

York Sample ID: 18F0837-13

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 4:50 pm

Date Received
06/20/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes: Rep-04

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
110-82-7	Cyclohexane	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
74-95-3	Dibromomethane	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
79-20-9	Methyl acetate	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
108-87-2	Methylcyclohexane	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
75-09-2	Methylene chloride	ND		ug/kg dry	5300	11000	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
95-47-6	o-Xylene	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5300	11000	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
100-42-5	Styrene	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2700	27000	1000	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS



Sample Information

Client Sample ID: SB14(26-28)

York Sample ID: 18F0837-13

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 4:50 pm

Date Received
06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes: Rep-04

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-88-3	Toluene	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH	06/27/2018 07:30	06/27/2018 12:33	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2700	5300	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/27/2018 07:30	06/27/2018 12:33	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	8000	16000	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/27/2018 07:30	06/27/2018 12:33	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	90.5 %	77-125								
2037-26-5	Surrogate: Toluene-d8	93.1 %	85-120								
460-00-4	Surrogate: p-Bromofluorobenzene	110 %	76-130								

Total Solids

Sample Prepared by Method: % Solids Prep

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	85.0		%	0.100	1	SM 2540G Certifications: CTDOH	06/27/2018 10:03	06/27/2018 16:09	LAB

Analyzed by: Phoenix Environmental Laboratories, Inc. S

Total Organic Carbon (TOC-SUB)

Sample Prepared by Method: *** DEFAULT PREP ***

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Organic Carbon (TOC)	8400		mg/kg	100	1	SW9060A/L.. Kahn Certifications:	06/20/2018 00:00	06/23/2018 00:00	PHO



Sample Information

Client Sample ID: SB14(31-32)

York Sample ID: 18F0837-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18F0837	31401451.000	Soil	June 18, 2018 5:00 pm	06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:16	RDS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:16	RDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:16	RDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/26/2018 07:30	06/26/2018 16:16	RDS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:16	RDS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:16	RDS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:16	RDS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:16	RDS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	06/26/2018 07:30	06/26/2018 16:16	RDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:16	RDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:16	RDS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:16	RDS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:16	RDS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:16	RDS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:16	RDS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:16	RDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:16	RDS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:16	RDS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:16	RDS
123-91-1	1,4-Dioxane	ND		ug/kg dry	57	110	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:16	RDS
78-93-3	2-Butanone	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:16	RDS
591-78-6	2-Hexanone	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:16	RDS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:16	RDS



Sample Information

Client Sample ID: SB14(31-32)

York Sample ID: 18F0837-14

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
18F0837	31401451.000	Soil	June 18, 2018 5:00 pm	06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	Acetone	19	SCAL-E	ug/kg dry	5.7	11	1	EPA 8260C	06/26/2018 07:30	06/26/2018 16:16	RDS
					Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP					
107-02-8	Acrolein	ND		ug/kg dry	5.7	11	1	EPA 8260C	06/26/2018 07:30	06/26/2018 16:16	RDS
					Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP					
107-13-1	Acrylonitrile	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	06/26/2018 07:30	06/26/2018 16:16	RDS
					Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP					
71-43-2	Benzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	06/26/2018 07:30	06/26/2018 16:16	RDS
					Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP					
74-97-5	Bromochloromethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	06/26/2018 07:30	06/26/2018 16:16	RDS
					Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP					
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	06/26/2018 07:30	06/26/2018 16:16	RDS
					Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP					
75-25-2	Bromoform	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	06/26/2018 07:30	06/26/2018 16:16	RDS
					Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP					
74-83-9	Bromomethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	06/26/2018 07:30	06/26/2018 16:16	RDS
					Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP					
75-15-0	Carbon disulfide	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	06/26/2018 07:30	06/26/2018 16:16	RDS
					Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP					
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	06/26/2018 07:30	06/26/2018 16:16	RDS
					Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP					
108-90-7	Chlorobenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	06/26/2018 07:30	06/26/2018 16:16	RDS
					Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP					
75-00-3	Chloroethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	06/26/2018 07:30	06/26/2018 16:16	RDS
					Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP					
67-66-3	Chloroform	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	06/26/2018 07:30	06/26/2018 16:16	RDS
					Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP					
74-87-3	Chloromethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	06/26/2018 07:30	06/26/2018 16:16	RDS
					Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP					
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	06/26/2018 07:30	06/26/2018 16:16	RDS
					Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP					
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	06/26/2018 07:30	06/26/2018 16:16	RDS
					Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP					
110-82-7	Cyclohexane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	06/26/2018 07:30	06/26/2018 16:16	RDS
					Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP					
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	06/26/2018 07:30	06/26/2018 16:16	RDS
					Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP					
74-95-3	Dibromomethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	06/26/2018 07:30	06/26/2018 16:16	RDS
					Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP					
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	06/26/2018 07:30	06/26/2018 16:16	RDS
					Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP					
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	06/26/2018 07:30	06/26/2018 16:16	RDS
					Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP					
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	06/26/2018 07:30	06/26/2018 16:16	RDS
					Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP					
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	06/26/2018 07:30	06/26/2018 16:16	RDS
					Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP					



Sample Information

Client Sample ID: SB14(31-32)

York Sample ID: 18F0837-14

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 5:00 pm

Date Received
06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:16	RDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:16	RDS
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:16	RDS
75-09-2	Methylene chloride	7.6	SCAL-E, J	ug/kg dry	5.7	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:16	RDS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:16	RDS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:16	RDS
95-47-6	o-Xylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/26/2018 07:30	06/26/2018 16:16	RDS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.7	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/26/2018 07:30	06/26/2018 16:16	RDS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:16	RDS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:16	RDS
100-42-5	Styrene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:16	RDS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.9	11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:16	RDS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:16	RDS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:16	RDS
108-88-3	Toluene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:16	RDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:16	RDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:16	RDS
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH	06/26/2018 07:30	06/26/2018 16:16	RDS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:16	RDS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:16	RDS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 16:16	RDS
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.6	17	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/26/2018 07:30	06/26/2018 16:16	RDS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	107 %	77-125								



Sample Information

Client Sample ID: SB14(31-32)

York Sample ID: 18F0837-14

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 5:00 pm

Date Received
06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	Surrogate: Toluene-d8	105 %			85-120						
460-00-4	Surrogate: p-Bromofluorobenzene	96.1 %			76-130						

Total Solids

Sample Prepared by Method: % Solids Prep

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	76.4		%	0.100	1	SM 2540G Certifications: CTDOH	06/27/2018 10:03	06/27/2018 16:09	LAB

Sample Information

Client Sample ID: SB16(29-30)

York Sample ID: 18F0837-15

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 5:50 pm

Date Received
06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
71-55-6	1,1,1-Trichloroethane	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
79-34-5	1,1,2,2-Tetrachloroethane	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/26/2018 07:30	06/26/2018 08:08	RDS
79-00-5	1,1,2-Trichloroethane	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
75-34-3	1,1-Dichloroethane	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
75-35-4	1,1-Dichloroethylene	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
87-61-6	1,2,3-Trichlorobenzene	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
96-18-4	1,2,3-Trichloropropane	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	06/26/2018 07:30	06/26/2018 08:08	RDS
120-82-1	1,2,4-Trichlorobenzene	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS



Sample Information

Client Sample ID: SB16(29-30)

York Sample ID: 18F0837-15

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 5:50 pm

Date Received
06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
96-12-8	1,2-Dibromo-3-chloropropane	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
106-93-4	1,2-Dibromoethane	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
95-50-1	1,2-Dichlorobenzene	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
107-06-2	1,2-Dichloroethane	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
78-87-5	1,2-Dichloropropane	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
108-67-8	1,3,5-Trimethylbenzene	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
541-73-1	1,3-Dichlorobenzene	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
106-46-7	1,4-Dichlorobenzene	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
123-91-1	1,4-Dioxane	ND	IS-LO	ug/kg dry	52	100	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
78-93-3	2-Butanone	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
591-78-6	2-Hexanone	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
108-10-1	4-Methyl-2-pentanone	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
67-64-1	Acetone	20	IS-LO, SCAL-E	ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
107-02-8	Acrolein	ND	IS-LO	ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
107-13-1	Acrylonitrile	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
71-43-2	Benzene	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
74-97-5	Bromochloromethane	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
75-27-4	Bromodichloromethane	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
75-25-2	Bromoform	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
74-83-9	Bromomethane	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
75-15-0	Carbon disulfide	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
56-23-5	Carbon tetrachloride	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS



Sample Information

Client Sample ID: SB16(29-30)

York Sample ID: 18F0837-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18F0837	31401451.000	Soil	June 18, 2018 5:50 pm	06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
75-00-3	Chloroethane	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
67-66-3	Chloroform	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
74-87-3	Chloromethane	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
156-59-2	cis-1,2-Dichloroethylene	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
10061-01-5	cis-1,3-Dichloropropylene	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
110-82-7	Cyclohexane	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
124-48-1	Dibromochloromethane	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
74-95-3	Dibromomethane	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
75-71-8	Dichlorodifluoromethane	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
100-41-4	Ethyl Benzene	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
87-68-3	Hexachlorobutadiene	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
98-82-8	Isopropylbenzene	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
79-20-9	Methyl acetate	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
108-87-2	Methylcyclohexane	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
75-09-2	Methylene chloride	8.4	IS-LO, SCAL-E, J	ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
104-51-8	n-Butylbenzene	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
103-65-1	n-Propylbenzene	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
95-47-6	o-Xylene	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
179601-23-1	p- & m- Xylenes	ND	IS-LO	ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
99-87-6	p-Isopropyltoluene	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS
135-98-8	sec-Butylbenzene	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08	RDS



Sample Information

Client Sample ID: SB16(29-30)

York Sample ID: 18F0837-15

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 5:50 pm

Date Received
06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ/MDL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-42-5	Styrene	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08 RDS
75-65-0	tert-Butyl alcohol (TBA)	ND	IS-LO	ug/kg dry	2.6	10	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08 RDS
98-06-6	tert-Butylbenzene	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08 RDS
127-18-4	Tetrachloroethylene	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08 RDS
108-88-3	Toluene	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08 RDS
156-60-5	trans-1,2-Dichloroethylene	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08 RDS
10061-02-6	trans-1,3-Dichloropropylene	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08 RDS
110-57-6	* trans-1,4-dichloro-2-butene	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH	06/26/2018 07:30	06/26/2018 08:08 RDS
79-01-6	Trichloroethylene	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08 RDS
75-69-4	Trichlorofluoromethane	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08 RDS
75-01-4	Vinyl Chloride	ND	IS-LO	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/26/2018 07:30	06/26/2018 08:08 RDS
1330-20-7	Xylenes, Total	ND	IS-LO	ug/kg dry	7.7	15	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/26/2018 07:30	06/26/2018 08:08 RDS
Surrogate Recoveries		Result	Acceptance Range							
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	98.0 %	IS-LO		77-125					
2037-26-5	Surrogate: Toluene-d8	104 %	IS-LO		85-120					
460-00-4	Surrogate: p-Bromofluorobenzene	98.4 %	IS-LO		76-130					

Total Solids

Sample Prepared by Method: % Solids Prep

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	89.1		%	0.100	1	SM 2540G Certifications: CTDOH	06/27/2018 10:03	06/27/2018 16:09	LAB

Analyzed by: Phoenix Environmental Laboratories, Inc. S

Total Organic Carbon (TOC-SUB)

Sample Prepared by Method: *** DEFAULT PREP ***

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120 RESEARCH DRIVE	STRATFORD, CT 06615		■		132-02 89th AVENUE			RICHMOND HILL, NY 11418		



Sample Information

Client Sample ID: SB16(29-30)

York Sample ID: 18F0837-15

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 5:50 pm

Date Received
06/20/2018

Analyzed by: Phoenix Environmental Laboratories, Inc. S

Total Organic Carbon (TOC-SUB)

Sample Prepared by Method: *** DEFAULT PREP ***

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Organic Carbon (TOC)	7900		mg/kg	100	1	SW9060A/L.. Kahn	06/20/2018 00:00	06/23/2018 00:00	PHO

Sample Information

Client Sample ID: SB16(30-32)

York Sample ID: 18F0837-16

York Project (SDG) No.
18F0837

Client Project ID
31401451.000

Matrix
Soil

Collection Date/Time
June 18, 2018 6:00 pm

Date Received
06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	06/25/2018 14:30	06/26/2018 08:35	RDS
					Certifications:			CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	06/25/2018 14:30	06/26/2018 08:35	RDS
					Certifications:			CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	06/25/2018 14:30	06/26/2018 08:35	RDS
					Certifications:			CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	06/25/2018 14:30	06/26/2018 08:35	RDS
					Certifications:			CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	06/25/2018 14:30	06/26/2018 08:35	RDS
					Certifications:			CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	06/25/2018 14:30	06/26/2018 08:35	RDS
					Certifications:			CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	06/25/2018 14:30	06/26/2018 08:35	RDS
					Certifications:			CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	06/25/2018 14:30	06/26/2018 08:35	RDS
					Certifications:			NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	06/25/2018 14:30	06/26/2018 08:35	RDS
					Certifications:			NELAC-NY10854,NELAC-NY12058,NJDEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	06/25/2018 14:30	06/26/2018 08:35	RDS
					Certifications:			NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	06/25/2018 14:30	06/26/2018 08:35	RDS
					Certifications:			CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	06/25/2018 14:30	06/26/2018 08:35	RDS
					Certifications:			CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	06/25/2018 14:30	06/26/2018 08:35	RDS
					Certifications:			CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			



Sample Information

Client Sample ID: SB16(30-32)

York Sample ID: 18F0837-16

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18F0837	31401451.000	Soil	June 18, 2018 6:00 pm	06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
123-91-1	1,4-Dioxane	ND		ug/kg dry	52	100	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
78-93-3	2-Butanone	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
591-78-6	2-Hexanone	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
67-64-1	Acetone	17	SCAL-E	ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
107-02-8	Acrolein	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
107-13-1	Acrylonitrile	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
71-43-2	Benzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
74-97-5	Bromochloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
75-25-2	Bromoform	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
74-83-9	Bromomethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
75-15-0	Carbon disulfide	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
75-00-3	Chloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
67-66-3	Chloroform	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS



Sample Information

Client Sample ID: SB16(30-32)

York Sample ID: 18F0837-16

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18F0837	31401451.000	Soil	June 18, 2018 6:00 pm	06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-87-3	Chloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
110-82-7	Cyclohexane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
74-95-3	Dibromomethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
79-20-9	Methyl acetate	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
75-09-2	Methylene chloride	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
95-47-6	o-Xylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
100-42-5	Styrene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.6	10	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS



Sample Information

Client Sample ID: SB16(30-32)

York Sample ID: 18F0837-16

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18F0837	31401451.000	Soil	June 18, 2018 6:00 pm	06/20/2018

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
108-88-3	Toluene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH	06/25/2018 14:30	06/26/2018 08:35	RDS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/25/2018 14:30	06/26/2018 08:35	RDS
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.8	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/25/2018 14:30	06/26/2018 08:35	RDS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	96.0 %	77-125								
2037-26-5	Surrogate: Toluene-d8	105 %	85-120								
460-00-4	Surrogate: p-Bromofluorobenzene	93.0 %	76-130								

Total Solids

Sample Prepared by Method: % Solids Prep

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	78.0		%	0.100	1	SM 2540G Certifications: CTDOH	06/27/2018 10:03	06/27/2018 16:09	LAB



Analytical Batch Summary

Batch ID: 6/23/2018

Preparation Method: *** DEFAULT PREP ***

Prepared By:

YORK Sample ID	Client Sample ID	Preparation Date
18F0837-01	SB17(26-27)	06/20/18
18F0837-04	SB18(26-28)	06/20/18
18F0837-06	SB19(27-29)	06/20/18
18F0837-09	SB13(23-24)	06/20/18
18F0837-10	SB15(26-28)	06/20/18
18F0837-13	SB14(26-28)	06/20/18
18F0837-15	SB16(29-30)	06/20/18

Batch ID: BF81359

Preparation Method: EPA 5035A

Prepared By: TAB

YORK Sample ID	Client Sample ID	Preparation Date
18F0837-03	SB17(31-32)	06/25/18
18F0837-04	SB18(26-28)	06/25/18
18F0837-05	SB18(29-31)	06/25/18
18F0837-07	SB19(31-33)	06/25/18
18F0837-08	SB13(22-23)	06/25/18
18F0837-11	SB15(31-32)	06/25/18
18F0837-12	SB14(23-24)	06/25/18
18F0837-16	SB16(30-32)	06/25/18
BF81359-BLK1	Blank	06/25/18
BF81359-BS1	LCS	06/25/18
BF81359-BSD1	LCS Dup	06/25/18

Batch ID: BF81388

Preparation Method: EPA 5035A

Prepared By: RDS

YORK Sample ID	Client Sample ID	Preparation Date
18F0837-01	SB17(26-27)	06/26/18
18F0837-02	SB17(29-31)	06/26/18
18F0837-06	SB19(27-29)	06/26/18
18F0837-09	SB13(23-24)	06/26/18
18F0837-14	SB14(31-32)	06/26/18
18F0837-15	SB16(29-30)	06/26/18
BF81388-BLK1	Blank	06/26/18
BF81388-BLK2	Blank	06/26/18
BF81388-BS1	LCS	06/26/18
BF81388-BSD1	LCS Dup	06/26/18

Batch ID: BF81466

Preparation Method: EPA 5035A

Prepared By: TAB

YORK Sample ID	Client Sample ID	Preparation Date
18F0837-09RE1	SB13(23-24)	06/27/18
18F0837-10	SB15(26-28)	06/27/18
18F0837-13	SB14(26-28)	06/27/18
BF81466-BLK1	Blank	06/27/18



BF81466-BLK2	Blank	06/27/18
BF81466-BS1	LCS	06/27/18
BF81466-BSD1	LCS Dup	06/27/18

Batch ID: BF81490 **Preparation Method:** % Solids Prep **Prepared By:** TAJ

YORK Sample ID	Client Sample ID	Preparation Date
18F0837-01	SB17(26-27)	06/27/18
18F0837-02	SB17(29-31)	06/27/18
18F0837-03	SB17(31-32)	06/27/18
18F0837-04	SB18(26-28)	06/27/18
18F0837-05	SB18(29-31)	06/27/18
18F0837-06	SB19(27-29)	06/27/18
18F0837-07	SB19(31-33)	06/27/18
18F0837-08	SB13(22-23)	06/27/18
18F0837-09	SB13(23-24)	06/27/18
18F0837-10	SB15(26-28)	06/27/18
18F0837-11	SB15(31-32)	06/27/18
18F0837-12	SB14(23-24)	06/27/18
18F0837-13	SB14(26-28)	06/27/18
18F0837-14	SB14(31-32)	06/27/18
18F0837-15	SB16(29-30)	06/27/18
18F0837-16	SB16(30-32)	06/27/18



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD RPD	RPD Limit	Flag
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Batch BF81359 - EPA 5035A

Blank (BF81359-BLK1)

Prepared: 06/25/2018 Analyzed: 06/26/2018

1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet								
1,1,1-Trichloroethane	ND	5.0	"								
1,1,2,2-Tetrachloroethane	ND	5.0	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"								
1,1,2-Trichloroethane	ND	5.0	"								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
1,2,3-Trichlorobenzene	ND	5.0	"								
1,2,3-Trichloropropane	ND	5.0	"								
1,2,4-Trichlorobenzene	ND	5.0	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dibromo-3-chloropropane	ND	5.0	"								
1,2-Dibromoethane	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	ND	5.0	"								
1,2-Dichloropropane	ND	5.0	"								
1,3,5-Trimethylbenzene	ND	5.0	"								
1,3-Dichlorobenzene	ND	5.0	"								
1,4-Dichlorobenzene	ND	5.0	"								
1,4-Dioxane	ND	100	"								
2-Butanone	ND	5.0	"								
2-Hexanone	ND	5.0	"								
4-Methyl-2-pentanone	ND	5.0	"								
Acetone	ND	10	"								
Acrolein	ND	10	"								
Acrylonitrile	ND	5.0	"								
Benzene	ND	5.0	"								
Bromochloromethane	ND	5.0	"								
Bromodichloromethane	ND	5.0	"								
Bromoform	ND	5.0	"								
Bromomethane	ND	5.0	"								
Carbon disulfide	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroethane	ND	5.0	"								
Chloroform	ND	5.0	"								
Chloromethane	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
cis-1,3-Dichloropropylene	ND	5.0	"								
Cyclohexane	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dibromomethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Hexachlorobutadiene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl acetate	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylcyclohexane	ND	5.0	"								
Methylene chloride	ND	10	"								



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC %REC	%REC Limits	Flag	RPD RPD	RPD Limit	RPD Flag
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Batch BF81359 - EPA 5035A

Blank (BF81359-BLK1)

n-Butylbenzene	ND	5.0	ug/kg wet								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butyl alcohol (TBA)	ND	10	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
trans-1,4-dichloro-2-butene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	47.6		ug/L	50.0		95.1	77-125				
<i>Surrogate: Toluene-d8</i>	54.4		"	50.0		109	85-120				
<i>Surrogate: p-Bromofluorobenzene</i>	49.6		"	50.0		99.3	76-130				

LCS (BF81359-BS1)

1,1,1,2-Tetrachloroethane	47		ug/L	50.0		94.2	75-129				
1,1,1-Trichloroethane	46		"	50.0		92.3	71-137				
1,1,2,2-Tetrachloroethane	48		"	50.0		95.4	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	53		"	50.0		105	58-146				
1,1,2-Trichloroethane	43		"	50.0		86.6	83-123				
1,1-Dichloroethane	47		"	50.0		93.3	75-130				
1,1-Dichloroethylene	48		"	50.0		95.5	64-137				
1,2,3-Trichlorobenzene	41		"	50.0		82.2	81-140				
1,2,3-Trichloropropane	46		"	50.0		93.0	81-126				
1,2,4-Trichlorobenzene	39		"	50.0		79.0	80-141	Low Bias			
1,2,4-Trimethylbenzene	45		"	50.0		90.8	84-125				
1,2-Dibromo-3-chloropropane	48		"	50.0		95.3	74-142				
1,2-Dibromoethane	46		"	50.0		91.5	86-123				
1,2-Dichlorobenzene	48		"	50.0		96.7	85-122				
1,2-Dichloroethane	46		"	50.0		92.8	71-133				
1,2-Dichloropropane	48		"	50.0		95.4	81-122				
1,3,5-Trimethylbenzene	47		"	50.0		93.3	82-126				
1,3-Dichlorobenzene	46		"	50.0		91.4	84-124				
1,4-Dichlorobenzene	45		"	50.0		89.1	84-124				
1,4-Dioxane	1100		"	1050		101	10-228				
2-Butanone	48		"	50.0		96.7	58-147				
2-Hexanone	44		"	50.0		87.1	70-139				
4-Methyl-2-pentanone	45		"	50.0		89.4	72-132				
Acetone	39		"	50.0		77.7	36-155				
Acrolein	28		"	50.0		56.6	10-238				
Acrylonitrile	43		"	50.0		86.6	66-141				
Benzene	47		"	50.0		93.1	77-127				
Bromochloromethane	48		"	50.0		95.1	74-129				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF81359 - EPA 5035A

LCS (BF81359-BS1)

Prepared: 06/25/2018 Analyzed: 06/26/2018

Bromodichloromethane	46	ug/L	50.0		91.6	81-124					
Bromoform	41	"	50.0		82.8	80-136					
Bromomethane	55	"	50.0		109	32-177					
Carbon disulfide	52	"	50.0		104	10-136					
Carbon tetrachloride	47	"	50.0		93.5	66-143					
Chlorobenzene	48	"	50.0		96.8	86-120					
Chloroethane	52	"	50.0		104	51-142					
Chloroform	46	"	50.0		92.2	76-131					
Chloromethane	49	"	50.0		97.8	49-132					
cis-1,2-Dichloroethylene	48	"	50.0		96.5	74-132					
cis-1,3-Dichloropropylene	45	"	50.0		89.3	81-129					
Cyclohexane	50	"	50.0		100	70-130					
Dibromochloromethane	44	"	50.0		88.4	10-200					
Dibromomethane	47	"	50.0		94.5	83-124					
Dichlorodifluoromethane	57	"	50.0		115	28-158					
Ethyl Benzene	50	"	50.0		99.2	84-125					
Hexachlorobutadiene	43	"	50.0		86.5	83-133					
Isopropylbenzene	49	"	50.0		97.2	81-127					
Methyl acetate	44	"	50.0		87.4	41-143					
Methyl tert-butyl ether (MTBE)	46	"	50.0		92.6	74-131					
Methylcyclohexane	51	"	50.0		103	70-130					
Methylene chloride	42	"	50.0		84.8	57-141					
n-Butylbenzene	42	"	50.0		83.7	80-130					
n-Propylbenzene	47	"	50.0		94.8	74-136					
o-Xylene	49	"	50.0		97.3	83-123					
p- & m- Xylenes	94	"	100		94.4	82-128					
p-Isopropyltoluene	47	"	50.0		93.6	85-125					
sec-Butylbenzene	52	"	50.0		103	83-125					
Styrene	46	"	50.0		91.1	86-126					
tert-Butyl alcohol (TBA)	210	"	250		83.8	70-130					
tert-Butylbenzene	42	"	50.0		83.1	80-127					
Tetrachloroethylene	46	"	50.0		92.7	80-129					
Toluene	48	"	50.0		96.8	85-121					
trans-1,2-Dichloroethylene	47	"	50.0		93.8	72-132					
trans-1,3-Dichloropropylene	43	"	50.0		86.8	78-132					
trans-1,4-dichloro-2-butene	44	"	50.0		87.4	75-135					
Trichloroethylene	50	"	50.0		100	84-123					
Trichlorofluoromethane	47	"	50.0		94.0	62-140					
Vinyl Chloride	53	"	50.0		107	52-130					
<i>Surrogate: 1,2-Dichloroethane-d4</i>	50.9	"	50.0		102	77-125					
<i>Surrogate: Toluene-d8</i>	53.7	"	50.0		107	85-120					
<i>Surrogate: p-Bromofluorobenzene</i>	46.9	"	50.0		93.7	76-130					



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF81359 - EPA 5035A

LCS Dup (BF81359-BSD1)	Prepared: 06/25/2018 Analyzed: 06/26/2018									
1,1,1,2-Tetrachloroethane	47		ug/L	50.0	93.0	75-129			1.22	30
1,1,1-Trichloroethane	47		"	50.0	94.1	71-137			1.93	30
1,1,2,2-Tetrachloroethane	49		"	50.0	98.1	79-129			2.77	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	53		"	50.0	107	58-146			1.19	30
1,1,2-Trichloroethane	45		"	50.0	89.2	83-123			2.91	30
1,1-Dichloroethane	47		"	50.0	93.9	75-130			0.662	30
1,1-Dichloroethylene	49		"	50.0	97.9	64-137			2.42	30
1,2,3-Trichlorobenzene	42		"	50.0	83.9	81-140			2.02	30
1,2,3-Trichloropropane	48		"	50.0	96.0	81-126			3.17	30
1,2,4-Trichlorobenzene	40		"	50.0	80.0	80-141			1.28	30
1,2,4-Trimethylbenzene	47		"	50.0	93.7	84-125			3.16	30
1,2-Dibromo-3-chloropropane	48		"	50.0	95.7	74-142			0.356	30
1,2-Dibromoethane	48		"	50.0	95.3	86-123			4.07	30
1,2-Dichlorobenzene	47		"	50.0	94.0	85-122			2.85	30
1,2-Dichloroethane	47		"	50.0	93.6	71-133			0.880	30
1,2-Dichloropropane	47		"	50.0	94.1	81-122			1.35	30
1,3,5-Trimethylbenzene	48		"	50.0	95.0	82-126			1.87	30
1,3-Dichlorobenzene	45		"	50.0	90.8	84-124			0.659	30
1,4-Dichlorobenzene	45		"	50.0	89.1	84-124			0.0898	30
1,4-Dioxane	1100		"	1050	100	10-228			0.968	30
2-Butanone	47		"	50.0	93.1	58-147			3.75	30
2-Hexanone	45		"	50.0	89.1	70-139			2.20	30
4-Methyl-2-pentanone	47		"	50.0	94.3	72-132			5.40	30
Acetone	41		"	50.0	81.6	36-155			4.95	30
Acrolein	27		"	50.0	55.0	10-238			2.90	30
Acrylonitrile	46		"	50.0	91.7	66-141			5.75	30
Benzene	47		"	50.0	93.2	77-127			0.0644	30
Bromochloromethane	49		"	50.0	97.4	74-129			2.41	30
Bromodichloromethane	46		"	50.0	91.6	81-124			0.0218	30
Bromoform	41		"	50.0	81.5	80-136			1.53	30
Bromomethane	56		"	50.0	111	32-177			1.56	30
Carbon disulfide	53		"	50.0	105	10-136			1.21	30
Carbon tetrachloride	48		"	50.0	95.4	66-143			2.03	30
Chlorobenzene	48		"	50.0	96.0	86-120			0.830	30
Chloroethane	54		"	50.0	108	51-142			3.87	30
Chloroform	47		"	50.0	93.6	76-131			1.49	30
Chloromethane	50		"	50.0	99.2	49-132			1.36	30
cis-1,2-Dichloroethylene	48		"	50.0	96.0	74-132			0.499	30
cis-1,3-Dichloropropylene	44		"	50.0	88.5	81-129			0.878	30
Cyclohexane	51		"	50.0	101	70-130			0.853	30
Dibromochloromethane	45		"	50.0	89.3	10-200			0.968	30
Dibromomethane	47		"	50.0	94.7	83-124			0.169	30
Dichlorodifluoromethane	58		"	50.0	116	28-158			0.955	30
Ethyl Benzene	49		"	50.0	98.9	84-125			0.263	30
Hexachlorobutadiene	44		"	50.0	88.8	83-133			2.67	30
Isopropylbenzene	49		"	50.0	98.6	81-127			1.39	30
Methyl acetate	46		"	50.0	91.4	41-143			4.43	30
Methyl tert-butyl ether (MTBE)	48		"	50.0	95.7	74-131			3.38	30
Methylcyclohexane	51		"	50.0	102	70-130			0.508	30
Methylene chloride	42		"	50.0	84.9	57-141			0.165	30
n-Butylbenzene	49		"	50.0	98.1	80-130			15.8	30



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF81359 - EPA 5035A

LCS Dup (BF81359-BSD1)								Prepared: 06/25/2018 Analyzed: 06/26/2018		
n-Propylbenzene	49		ug/L	50.0	98.1	74-136			3.50	30
o-Xylene	49		"	50.0	97.5	83-123			0.144	30
p- & m- Xylenes	95		"	100	94.9	82-128			0.518	30
p-Isopropyltoluene	48		"	50.0	95.2	85-125			1.65	30
sec-Butylbenzene	53		"	50.0	105	83-125			2.01	30
Styrene	46		"	50.0	92.5	86-126			1.59	30
tert-Butyl alcohol (TBA)	210		"	250	84.8	70-130			1.23	30
tert-Butylbenzene	42		"	50.0	83.8	80-127			0.863	30
Tetrachloroethylene	46		"	50.0	92.3	80-129			0.411	30
Toluene	49		"	50.0	97.9	85-121			1.05	30
trans-1,2-Dichloroethylene	48		"	50.0	96.1	72-132			2.42	30
trans-1,3-Dichloropropylene	44		"	50.0	87.5	78-132			0.872	30
trans-1,4-dichloro-2-butene	45		"	50.0	89.2	75-135			1.99	30
Trichloroethylene	49		"	50.0	97.4	84-123			2.83	30
Trichlorofluoromethane	48		"	50.0	96.0	62-140			2.08	30
Vinyl Chloride	53		"	50.0	107	52-130			0.113	30
<i>Surrogate: 1,2-Dichloroethane-d4</i>	51.6		"	50.0	103	77-125				
<i>Surrogate: Toluene-d8</i>	54.0		"	50.0	108	85-120				
<i>Surrogate: p-Bromofluorobenzene</i>	48.3		"	50.0	96.6	76-130				

Batch BF81388 - EPA 5035A

Blank (BF81388-BLK1)								Prepared & Analyzed: 06/26/2018		
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet							
1,1,1-Trichloroethane	ND	5.0	"							
1,1,2,2-Tetrachloroethane	ND	5.0	"							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"							
1,1,2-Trichloroethane	ND	5.0	"							
1,1-Dichloroethane	ND	5.0	"							
1,1-Dichloroethylene	ND	5.0	"							
1,2,3-Trichlorobenzene	ND	5.0	"							
1,2,3-Trichloropropane	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	5.0	"							
1,2,4-Trimethylbenzene	ND	5.0	"							
1,2-Dibromo-3-chloropropane	ND	5.0	"							
1,2-Dibromoethane	ND	5.0	"							
1,2-Dichlorobenzene	ND	5.0	"							
1,2-Dichloroethane	ND	5.0	"							
1,2-Dichloropropane	ND	5.0	"							
1,3,5-Trimethylbenzene	ND	5.0	"							
1,3-Dichlorobenzene	ND	5.0	"							
1,4-Dichlorobenzene	ND	5.0	"							
1,4-Dioxane	ND	100	"							
2-Butanone	ND	5.0	"							
2-Hexanone	ND	5.0	"							
4-Methyl-2-pentanone	ND	5.0	"							
Acetone	ND	10	"							
Acrolein	ND	10	"							
Acrylonitrile	ND	5.0	"							
Benzene	ND	5.0	"							
Bromochloromethane	ND	5.0	"							



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD RPD	RPD Limit	RPD Flag
Batch BF81388 - EPA 5035A											
Blank (BF81388-BLK1)											
Bromodichloromethane	ND	5.0	ug/kg wet						Prepared & Analyzed: 06/26/2018		
Bromoform	ND	5.0	"								
Bromomethane	ND	5.0	"								
Carbon disulfide	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroethane	ND	5.0	"								
Chloroform	ND	5.0	"								
Chloromethane	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
cis-1,3-Dichloropropylene	ND	5.0	"								
Cyclohexane	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dibromomethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Hexachlorobutadiene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl acetate	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylcyclohexane	ND	5.0	"								
Methylene chloride	ND	10	"								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butyl alcohol (TBA)	ND	10	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
trans-1,4-dichloro-2-butene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	46.5		ug/L	50.0		93.0	77-125				
<i>Surrogate: Toluene-d8</i>	54.2		"	50.0		108	85-120				
<i>Surrogate: p-Bromofluorobenzene</i>	48.6		"	50.0		97.3	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF81388 - EPA 5035A

Blank (BF81388-BLK2)

Prepared & Analyzed: 06/26/2018

1,1,1,2-Tetrachloroethane	ND	500	ug/kg wet								
1,1,1-Trichloroethane	ND	500	"								
1,1,2,2-Tetrachloroethane	ND	500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	500	"								
1,1,2-Trichloroethane	ND	500	"								
1,1-Dichloroethane	ND	500	"								
1,1-Dichloroethylene	ND	500	"								
1,2,3-Trichlorobenzene	ND	500	"								
1,2,3-Trichloropropane	ND	500	"								
1,2,4-Trichlorobenzene	ND	500	"								
1,2,4-Trimethylbenzene	ND	500	"								
1,2-Dibromo-3-chloropropane	ND	500	"								
1,2-Dibromoethane	ND	500	"								
1,2-Dichlorobenzene	ND	500	"								
1,2-Dichloroethane	ND	500	"								
1,2-Dichloropropane	ND	500	"								
1,3,5-Trimethylbenzene	ND	500	"								
1,3-Dichlorobenzene	ND	500	"								
1,4-Dichlorobenzene	ND	500	"								
1,4-Dioxane	ND	10000	"								
2-Butanone	ND	500	"								
2-Hexanone	ND	500	"								
4-Methyl-2-pentanone	ND	500	"								
Acetone	ND	1000	"								
Acrolein	ND	1000	"								
Acrylonitrile	ND	500	"								
Benzene	ND	500	"								
Bromochloromethane	ND	500	"								
Bromodichloromethane	ND	500	"								
Bromoform	ND	500	"								
Bromomethane	ND	500	"								
Carbon disulfide	ND	500	"								
Carbon tetrachloride	ND	500	"								
Chlorobenzene	ND	500	"								
Chloroethane	ND	500	"								
Chloroform	ND	500	"								
Chloromethane	ND	500	"								
cis-1,2-Dichloroethylene	ND	500	"								
cis-1,3-Dichloropropylene	ND	500	"								
Cyclohexane	ND	500	"								
Dibromochloromethane	ND	500	"								
Dibromomethane	ND	500	"								
Dichlorodifluoromethane	ND	500	"								
Ethyl Benzene	ND	500	"								
Hexachlorobutadiene	ND	500	"								
Isopropylbenzene	ND	500	"								
Methyl acetate	ND	500	"								
Methyl tert-butyl ether (MTBE)	ND	500	"								
Methylcyclohexane	ND	500	"								
Methylene chloride	ND	1000	"								
n-Butylbenzene	ND	500	"								



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF81388 - EPA 5035A

Blank (BF81388-BLK2)

n-Propylbenzene	ND	500	ug/kg wet								
o-Xylene	ND	500	"								
p- & m- Xylenes	ND	1000	"								
p-Isopropyltoluene	ND	500	"								
sec-Butylbenzene	ND	500	"								
Styrene	ND	500	"								
tert-Butyl alcohol (TBA)	ND	1000	"								
tert-Butylbenzene	ND	500	"								
Tetrachloroethylene	ND	500	"								
Toluene	ND	500	"								
trans-1,2-Dichloroethylene	ND	500	"								
trans-1,3-Dichloropropylene	ND	500	"								
trans-1,4-dichloro-2-butene	ND	500	"								
Trichloroethylene	ND	500	"								
Trichlorofluoromethane	ND	500	"								
Vinyl Chloride	ND	500	"								
Xylenes, Total	ND	1500	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	47.3		ug/L	50.0		94.6	77-125				
<i>Surrogate: Toluene-d8</i>	54.3		"	50.0		109	85-120				
<i>Surrogate: p-Bromofluorobenzene</i>	48.6		"	50.0		97.1	76-130				

LCS (BF81388-BS1)

1,1,1,2-Tetrachloroethane	49		ug/L	50.0		97.1	75-129				
1,1,1-Trichloroethane	44		"	50.0		88.7	71-137				
1,1,2,2-Tetrachloroethane	46		"	50.0		91.4	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	48		"	50.0		97.0	58-146				
1,1,2-Trichloroethane	44		"	50.0		88.3	83-123				
1,1-Dichloroethane	46		"	50.0		91.3	75-130				
1,1-Dichloroethylene	46		"	50.0		92.4	64-137				
1,2,3-Trichlorobenzene	43		"	50.0		86.4	81-140				
1,2,3-Trichloropropane	46		"	50.0		92.7	81-126				
1,2,4-Trichlorobenzene	42		"	50.0		84.2	80-141				
1,2,4-Trimethylbenzene	45		"	50.0		90.7	84-125				
1,2-Dibromo-3-chloropropane	48		"	50.0		95.4	74-142				
1,2-Dibromoethane	46		"	50.0		91.9	86-123				
1,2-Dichlorobenzene	48		"	50.0		95.6	85-122				
1,2-Dichloroethane	45		"	50.0		90.3	71-133				
1,2-Dichloropropane	46		"	50.0		91.1	81-122				
1,3,5-Trimethylbenzene	47		"	50.0		93.0	82-126				
1,3-Dichlorobenzene	46		"	50.0		92.9	84-124				
1,4-Dichlorobenzene	45		"	50.0		90.8	84-124				
1,4-Dioxane	1200		"	1050		111	10-228				
2-Butanone	46		"	50.0		92.9	58-147				
2-Hexanone	42		"	50.0		84.7	70-139				
4-Methyl-2-pentanone	44		"	50.0		87.4	72-132				
Acetone	43		"	50.0		85.0	36-155				
Acrolein	25		"	50.0		50.0	10-238				
Acrylonitrile	42		"	50.0		84.5	66-141				
Benzene	45		"	50.0		89.4	77-127				
Bromochloromethane	44		"	50.0		87.3	74-129				
Bromodichloromethane	45		"	50.0		90.0	81-124				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF81388 - EPA 5035A

LCS (BF81388-BS1)	Prepared & Analyzed: 06/26/2018						
Bromoform	42		ug/L	50.0	83.8	80-136	
Bromomethane	47		"	50.0	93.9	32-177	
Carbon disulfide	50		"	50.0	100	10-136	
Carbon tetrachloride	46		"	50.0	92.6	66-143	
Chlorobenzene	48		"	50.0	96.0	86-120	
Chloroethane	45		"	50.0	89.4	51-142	
Chloroform	44		"	50.0	88.2	76-131	
Chloromethane	42		"	50.0	83.7	49-132	
cis-1,2-Dichloroethylene	45		"	50.0	89.1	74-132	
cis-1,3-Dichloropropylene	45		"	50.0	90.3	81-129	
Cyclohexane	47		"	50.0	94.7	70-130	
Dibromochloromethane	45		"	50.0	90.6	10-200	
Dibromomethane	47		"	50.0	93.7	83-124	
Dichlorodifluoromethane	50		"	50.0	101	28-158	
Ethyl Benzene	48		"	50.0	95.6	84-125	
Hexachlorobutadiene	47		"	50.0	93.0	83-133	
Isopropylbenzene	47		"	50.0	93.6	81-127	
Methyl acetate	41		"	50.0	82.7	41-143	
Methyl tert-butyl ether (MTBE)	45		"	50.0	91.0	74-131	
Methylcyclohexane	49		"	50.0	97.9	70-130	
Methylene chloride	40		"	50.0	80.8	57-141	
n-Butylbenzene	48		"	50.0	97.0	80-130	
n-Propylbenzene	47		"	50.0	94.4	74-136	
o-Xylene	47		"	50.0	94.8	83-123	
p- & m- Xylenes	92		"	100	92.0	82-128	
p-Isopropyltoluene	47		"	50.0	94.9	85-125	
sec-Butylbenzene	50		"	50.0	99.8	83-125	
Styrene	45		"	50.0	89.9	86-126	
tert-Butyl alcohol (TBA)	220		"	250	86.0	70-130	
tert-Butylbenzene	41		"	50.0	82.7	80-127	
Tetrachloroethylene	47		"	50.0	93.3	80-129	
Toluene	47		"	50.0	94.2	85-121	
trans-1,2-Dichloroethylene	44		"	50.0	88.3	72-132	
trans-1,3-Dichloropropylene	43		"	50.0	86.9	78-132	
trans-1,4-dichloro-2-butene	42		"	50.0	83.6	75-135	
Trichloroethylene	47		"	50.0	94.7	84-123	
Trichlorofluoromethane	43		"	50.0	86.7	62-140	
Vinyl Chloride	45		"	50.0	90.6	52-130	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	50.7		"	50.0	101	77-125	
<i>Surrogate: Toluene-d8</i>	54.2		"	50.0	108	85-120	
<i>Surrogate: p-Bromofluorobenzene</i>	47.9		"	50.0	95.8	76-130	



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF81388 - EPA 5035A

LCS Dup (BF81388-BSD1)	Prepared & Analyzed: 06/26/2018									
1,1,1,2-Tetrachloroethane	47		ug/L	50.0	94.4	75-129			2.80	30
1,1,1-Trichloroethane	46		"	50.0	91.6	71-137			3.15	30
1,1,2,2-Tetrachloroethane	49		"	50.0	97.9	79-129			6.82	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	51		"	50.0	103	58-146			5.71	30
1,1,2-Trichloroethane	43		"	50.0	86.6	83-123			1.94	30
1,1-Dichloroethane	45		"	50.0	90.6	75-130			0.726	30
1,1-Dichloroethylene	46		"	50.0	92.2	64-137			0.217	30
1,2,3-Trichlorobenzene	44		"	50.0	88.0	81-140			1.83	30
1,2,3-Trichloropropane	45		"	50.0	90.9	81-126			1.92	30
1,2,4-Trichlorobenzene	45		"	50.0	89.2	80-141			5.77	30
1,2,4-Trimethylbenzene	47		"	50.0	93.3	84-125			2.80	30
1,2-Dibromo-3-chloropropane	48		"	50.0	96.7	74-142			1.35	30
1,2-Dibromoethane	45		"	50.0	89.4	86-123			2.71	30
1,2-Dichlorobenzene	49		"	50.0	98.2	85-122			2.72	30
1,2-Dichloroethane	45		"	50.0	89.8	71-133			0.511	30
1,2-Dichloropropane	45		"	50.0	90.8	81-122			0.330	30
1,3,5-Trimethylbenzene	48		"	50.0	95.5	82-126			2.61	30
1,3-Dichlorobenzene	48		"	50.0	95.8	84-124			3.12	30
1,4-Dichlorobenzene	47		"	50.0	93.9	84-124			3.40	30
1,4-Dioxane	1000		"	1050	99.9	10-228			10.8	30
2-Butanone	45		"	50.0	90.1	58-147			3.06	30
2-Hexanone	42		"	50.0	83.9	70-139			0.996	30
4-Methyl-2-pentanone	43		"	50.0	86.3	72-132			1.22	30
Acetone	40		"	50.0	79.4	36-155			6.81	30
Acrolein	26		"	50.0	51.2	10-238			2.33	30
Acrylonitrile	42		"	50.0	84.5	66-141			0.0237	30
Benzene	45		"	50.0	90.1	77-127			0.735	30
Bromochloromethane	44		"	50.0	88.5	74-129			1.43	30
Bromodichloromethane	44		"	50.0	88.8	81-124			1.32	30
Bromoform	40		"	50.0	80.9	80-136			3.54	30
Bromomethane	48		"	50.0	95.4	32-177			1.56	30
Carbon disulfide	51		"	50.0	102	10-136			1.82	30
Carbon tetrachloride	47		"	50.0	93.7	66-143			1.14	30
Chlorobenzene	48		"	50.0	96.3	86-120			0.229	30
Chloroethane	46		"	50.0	92.3	51-142			3.13	30
Chloroform	45		"	50.0	90.6	76-131			2.64	30
Chloromethane	42		"	50.0	83.5	49-132			0.311	30
cis-1,2-Dichloroethylene	46		"	50.0	92.6	74-132			3.83	30
cis-1,3-Dichloropropylene	43		"	50.0	86.9	81-129			3.84	30
Cyclohexane	48		"	50.0	95.9	70-130			1.18	30
Dibromochloromethane	45		"	50.0	89.2	10-200			1.51	30
Dibromomethane	46		"	50.0	91.5	83-124			2.31	30
Dichlorodifluoromethane	50		"	50.0	101	28-158			0.159	30
Ethyl Benzene	48		"	50.0	96.4	84-125			0.771	30
Hexachlorobutadiene	48		"	50.0	95.6	83-133			2.71	30
Isopropylbenzene	49		"	50.0	97.4	81-127			4.04	30
Methyl acetate	42		"	50.0	83.9	41-143			1.37	30
Methyl tert-butyl ether (MTBE)	45		"	50.0	90.8	74-131			0.198	30
Methylcyclohexane	49		"	50.0	98.4	70-130			0.530	30
Methylene chloride	40		"	50.0	79.2	57-141			1.90	30
n-Butylbenzene	41		"	50.0	82.9	80-130			15.7	30



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF81388 - EPA 5035A

Prepared & Analyzed: 06/26/2018								
n-Propylbenzene	49		ug/L	50.0	98.3	74-136	4.13	30
o-Xylene	47		"	50.0	93.9	83-123	0.933	30
p- & m- Xylenes	92		"	100	91.8	82-128	0.305	30
p-Isopropyltoluene	48		"	50.0	95.9	85-125	1.05	30
sec-Butylbenzene	51		"	50.0	103	83-125	3.02	30
Styrene	46		"	50.0	91.4	86-126	1.70	30
tert-Butyl alcohol (TBA)	210		"	250	82.9	70-130	3.70	30
tert-Butylbenzene	42		"	50.0	84.3	80-127	1.92	30
Tetrachloroethylene	46		"	50.0	92.8	80-129	0.602	30
Toluene	47		"	50.0	93.2	85-121	1.11	30
trans-1,2-Dichloroethylene	45		"	50.0	89.4	72-132	1.28	30
trans-1,3-Dichloropropylene	43		"	50.0	85.1	78-132	2.05	30
trans-1,4-dichloro-2-butene	46		"	50.0	91.7	75-135	9.25	30
Trichloroethylene	47		"	50.0	94.4	84-123	0.254	30
Trichlorofluoromethane	44		"	50.0	87.9	62-140	1.44	30
Vinyl Chloride	45		"	50.0	89.8	52-130	0.931	30
Surrogate: 1,2-Dichloroethane-d4	50.0		"	50.0	100	77-125		
Surrogate: Toluene-d8	51.5		"	50.0	103	85-120		
Surrogate: p-Bromofluorobenzene	47.7		"	50.0	95.5	76-130		

Batch BF81466 - EPA 5035A

Prepared & Analyzed: 06/27/2018							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet				
1,1,1-Trichloroethane	ND	5.0	"				
1,1,2,2-Tetrachloroethane	ND	5.0	"				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"				
1,1,2-Trichloroethane	ND	5.0	"				
1,1-Dichloroethane	ND	5.0	"				
1,1-Dichloroethylene	ND	5.0	"				
1,2,3-Trichlorobenzene	ND	5.0	"				
1,2,3-Trichloropropane	ND	5.0	"				
1,2,4-Trichlorobenzene	ND	5.0	"				
1,2,4-Trimethylbenzene	ND	5.0	"				
1,2-Dibromo-3-chloropropane	ND	5.0	"				
1,2-Dibromoethane	ND	5.0	"				
1,2-Dichlorobenzene	ND	5.0	"				
1,2-Dichloroethane	ND	5.0	"				
1,2-Dichloropropane	ND	5.0	"				
1,3,5-Trimethylbenzene	ND	5.0	"				
1,3-Dichlorobenzene	ND	5.0	"				
1,4-Dichlorobenzene	ND	5.0	"				
1,4-Dioxane	ND	100	"				
2-Butanone	ND	5.0	"				
2-Hexanone	ND	5.0	"				
4-Methyl-2-pentanone	ND	5.0	"				
Acetone	ND	10	"				
Acrolein	ND	10	"				
Acrylonitrile	ND	5.0	"				
Benzene	ND	5.0	"				
Bromochloromethane	ND	5.0	"				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD RPD	RPD Limit	RPD Flag
Batch BF81466 - EPA 5035A											
Blank (BF81466-BLK1)											
Bromodichloromethane	ND	5.0	ug/kg wet						Prepared & Analyzed: 06/27/2018		
Bromoform	ND	5.0	"								
Bromomethane	ND	5.0	"								
Carbon disulfide	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroethane	ND	5.0	"								
Chloroform	ND	5.0	"								
Chloromethane	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
cis-1,3-Dichloropropylene	ND	5.0	"								
Cyclohexane	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dibromomethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Hexachlorobutadiene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl acetate	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylcyclohexane	ND	5.0	"								
Methylene chloride	ND	10	"								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butyl alcohol (TBA)	ND	25	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
trans-1,4-dichloro-2-butene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	44.1		ug/L	50.0		88.2	77-125				
<i>Surrogate: Toluene-d8</i>	50.3		"	50.0		101	85-120				
<i>Surrogate: p-Bromofluorobenzene</i>	53.1		"	50.0		106	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF81466 - EPA 5035A

Blank (BF81466-BLK2)

Prepared & Analyzed: 06/27/2018

1,1,1,2-Tetrachloroethane	ND	500	ug/kg wet								
1,1,1-Trichloroethane	ND	500	"								
1,1,2,2-Tetrachloroethane	ND	500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	500	"								
1,1,2-Trichloroethane	ND	500	"								
1,1-Dichloroethane	ND	500	"								
1,1-Dichloroethylene	ND	500	"								
1,2,3-Trichlorobenzene	ND	500	"								
1,2,3-Trichloropropane	ND	500	"								
1,2,4-Trichlorobenzene	ND	500	"								
1,2,4-Trimethylbenzene	ND	500	"								
1,2-Dibromo-3-chloropropane	ND	500	"								
1,2-Dibromoethane	ND	500	"								
1,2-Dichlorobenzene	ND	500	"								
1,2-Dichloroethane	ND	500	"								
1,2-Dichloropropane	ND	500	"								
1,3,5-Trimethylbenzene	ND	500	"								
1,3-Dichlorobenzene	ND	500	"								
1,4-Dichlorobenzene	ND	500	"								
1,4-Dioxane	ND	10000	"								
2-Butanone	ND	500	"								
2-Hexanone	ND	500	"								
4-Methyl-2-pentanone	ND	500	"								
Acetone	ND	1000	"								
Acrolein	ND	1000	"								
Acrylonitrile	ND	500	"								
Benzene	ND	500	"								
Bromochloromethane	ND	500	"								
Bromodichloromethane	ND	500	"								
Bromoform	ND	500	"								
Bromomethane	ND	500	"								
Carbon disulfide	ND	500	"								
Carbon tetrachloride	ND	500	"								
Chlorobenzene	ND	500	"								
Chloroethane	ND	500	"								
Chloroform	ND	500	"								
Chloromethane	ND	500	"								
cis-1,2-Dichloroethylene	ND	500	"								
cis-1,3-Dichloropropylene	ND	500	"								
Cyclohexane	ND	500	"								
Dibromochloromethane	ND	500	"								
Dibromomethane	ND	500	"								
Dichlorodifluoromethane	ND	500	"								
Ethyl Benzene	ND	500	"								
Hexachlorobutadiene	ND	500	"								
Isopropylbenzene	ND	500	"								
Methyl acetate	ND	500	"								
Methyl tert-butyl ether (MTBE)	ND	500	"								
Methylcyclohexane	ND	500	"								
Methylene chloride	ND	1000	"								
n-Butylbenzene	ND	500	"								



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF81466 - EPA 5035A

Blank (BF81466-BLK2)

											Prepared & Analyzed: 06/27/2018
n-Propylbenzene	ND	500	ug/kg wet								
o-Xylene	ND	500	"								
p- & m- Xylenes	ND	1000	"								
p-Isopropyltoluene	ND	500	"								
sec-Butylbenzene	ND	500	"								
Styrene	ND	500	"								
tert-Butyl alcohol (TBA)	ND	2500	"								
tert-Butylbenzene	ND	500	"								
Tetrachloroethylene	ND	500	"								
Toluene	ND	500	"								
trans-1,2-Dichloroethylene	ND	500	"								
trans-1,3-Dichloropropylene	ND	500	"								
trans-1,4-dichloro-2-butene	ND	500	"								
Trichloroethylene	ND	500	"								
Trichlorofluoromethane	ND	500	"								
Vinyl Chloride	ND	500	"								
Xylenes, Total	ND	1500	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	46.3		ug/L	50.0		92.7	77-125				
<i>Surrogate: Toluene-d8</i>	49.6		"	50.0		99.2	85-120				
<i>Surrogate: p-Bromofluorobenzene</i>	51.3		"	50.0		103	76-130				

LCS (BF81466-BS1)

											Prepared & Analyzed: 06/27/2018
1,1,1,2-Tetrachloroethane	51		ug/L	50.0		102	75-129				
1,1,1-Trichloroethane	49		"	50.0		97.2	71-137				
1,1,2,2-Tetrachloroethane	52		"	50.0		104	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	49		"	50.0		97.8	58-146				
1,1,2-Trichloroethane	51		"	50.0		102	83-123				
1,1-Dichloroethane	49		"	50.0		97.2	75-130				
1,1-Dichloroethylene	47		"	50.0		94.6	64-137				
1,2,3-Trichlorobenzene	48		"	50.0		96.1	81-140				
1,2,3-Trichloropropane	52		"	50.0		103	81-126				
1,2,4-Trichlorobenzene	46		"	50.0		91.6	80-141				
1,2,4-Trimethylbenzene	46		"	50.0		92.4	84-125				
1,2-Dibromo-3-chloropropane	50		"	50.0		99.4	74-142				
1,2-Dibromoethane	52		"	50.0		104	86-123				
1,2-Dichlorobenzene	50		"	50.0		101	85-122				
1,2-Dichloroethane	49		"	50.0		98.6	71-133				
1,2-Dichloropropane	49		"	50.0		97.1	81-122				
1,3,5-Trimethylbenzene	48		"	50.0		95.0	82-126				
1,3-Dichlorobenzene	48		"	50.0		95.3	84-124				
1,4-Dichlorobenzene	48		"	50.0		96.6	84-124				
1,4-Dioxane	1100		"	1050		102	10-228				
2-Butanone	51		"	50.0		102	58-147				
2-Hexanone	50		"	50.0		99.5	70-139				
4-Methyl-2-pentanone	54		"	50.0		108	72-132				
Acetone	41		"	50.0		81.9	36-155				
Acrolein	35		"	50.0		71.0	10-238				
Acrylonitrile	50		"	50.0		100	66-141				
Benzene	49		"	50.0		98.4	77-127				
Bromochloromethane	50		"	50.0		101	74-129				
Bromodichloromethane	51		"	50.0		102	81-124				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF81466 - EPA 5035A

LCS (BF81466-BS1)	Prepared & Analyzed: 06/27/2018									
Bromoform	56		ug/L	50.0	111	80-136				
Bromomethane	46		"	50.0	91.5	32-177				
Carbon disulfide	55		"	50.0	110	10-136				
Carbon tetrachloride	49		"	50.0	97.5	66-143				
Chlorobenzene	50		"	50.0	99.9	86-120				
Chloroethane	52		"	50.0	104	51-142				
Chloroform	50		"	50.0	100	76-131				
Chloromethane	52		"	50.0	105	49-132				
cis-1,2-Dichloroethylene	49		"	50.0	97.8	74-132				
cis-1,3-Dichloropropylene	49		"	50.0	98.2	81-129				
Cyclohexane	48		"	50.0	96.2	70-130				
Dibromochloromethane	56		"	50.0	112	10-200				
Dibromomethane	50		"	50.0	100	83-124				
Dichlorodifluoromethane	48		"	50.0	96.5	28-158				
Ethyl Benzene	48		"	50.0	96.0	84-125				
Hexachlorobutadiene	48		"	50.0	96.0	83-133				
Isopropylbenzene	48		"	50.0	96.6	81-127				
Methyl acetate	42		"	50.0	84.5	41-143				
Methyl tert-butyl ether (MTBE)	51		"	50.0	102	74-131				
Methylcyclohexane	48		"	50.0	96.6	70-130				
Methylene chloride	47		"	50.0	94.7	57-141				
n-Butylbenzene	48		"	50.0	95.2	80-130				
n-Propylbenzene	48		"	50.0	95.6	74-136				
o-Xylene	49		"	50.0	98.8	83-123				
p- & m- Xylenes	94		"	100	94.5	82-128				
p-Isopropyltoluene	48		"	50.0	96.3	85-125				
sec-Butylbenzene	51		"	50.0	102	83-125				
Styrene	48		"	50.0	96.7	86-126				
tert-Butyl alcohol (TBA)	260		"	250	105	70-130				
tert-Butylbenzene	48		"	50.0	96.9	80-127				
Tetrachloroethylene	46		"	50.0	91.4	80-129				
Toluene	49		"	50.0	97.5	85-121				
trans-1,2-Dichloroethylene	48		"	50.0	96.1	72-132				
trans-1,3-Dichloropropylene	49		"	50.0	98.2	78-132				
trans-1,4-dichloro-2-butene	49		"	50.0	98.8	75-135				
Trichloroethylene	51		"	50.0	101	84-123				
Trichlorofluoromethane	49		"	50.0	98.5	62-140				
Vinyl Chloride	50		"	50.0	99.6	52-130				
Surrogate: 1,2-Dichloroethane-d4	48.8		"	50.0	97.6	77-125				
Surrogate: Toluene-d8	49.5		"	50.0	99.0	85-120				
Surrogate: p-Bromoiodobenzene	50.2		"	50.0	100	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF81466 - EPA 5035A

LCS Dup (BF81466-BSD1)	Prepared & Analyzed: 06/27/2018									
1,1,1,2-Tetrachloroethane	49		ug/L	50.0	98.9	75-129			3.01	30
1,1,1-Trichloroethane	47		"	50.0	94.5	71-137			2.84	30
1,1,2,2-Tetrachloroethane	51		"	50.0	102	79-129			1.34	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	49		"	50.0	97.5	58-146			0.348	30
1,1,2-Trichloroethane	49		"	50.0	98.7	83-123			3.64	30
1,1-Dichloroethane	47		"	50.0	94.8	75-130			2.50	30
1,1-Dichloroethylene	47		"	50.0	94.1	64-137			0.551	30
1,2,3-Trichlorobenzene	45		"	50.0	89.3	81-140			7.25	30
1,2,3-Trichloropropane	50		"	50.0	99.5	81-126			3.52	30
1,2,4-Trichlorobenzene	42		"	50.0	84.8	80-141			7.69	30
1,2,4-Trimethylbenzene	44		"	50.0	87.8	84-125			5.17	30
1,2-Dibromo-3-chloropropane	50		"	50.0	101	74-142			1.60	30
1,2-Dibromoethane	49		"	50.0	97.0	86-123			6.54	30
1,2-Dichlorobenzene	48		"	50.0	96.4	85-122			4.18	30
1,2-Dichloroethane	48		"	50.0	96.1	71-133			2.57	30
1,2-Dichloropropane	49		"	50.0	97.2	81-122			0.123	30
1,3,5-Trimethylbenzene	47		"	50.0	93.8	82-126			1.27	30
1,3-Dichlorobenzene	45		"	50.0	90.8	84-124			4.92	30
1,4-Dichlorobenzene	46		"	50.0	92.4	84-124			4.42	30
1,4-Dioxane	970		"	1050	92.8	10-228			9.90	30
2-Butanone	48		"	50.0	96.6	58-147			5.04	30
2-Hexanone	48		"	50.0	95.7	70-139			3.93	30
4-Methyl-2-pentanone	51		"	50.0	102	72-132			5.51	30
Acetone	42		"	50.0	84.7	36-155			3.36	30
Acrolein	34		"	50.0	67.6	10-238			4.91	30
Acrylonitrile	48		"	50.0	96.9	66-141			3.49	30
Benzene	48		"	50.0	95.3	77-127			3.18	30
Bromochloromethane	49		"	50.0	97.8	74-129			2.88	30
Bromodichloromethane	49		"	50.0	98.3	81-124			3.81	30
Bromoform	55		"	50.0	109	80-136			1.83	30
Bromomethane	45		"	50.0	90.9	32-177			0.636	30
Carbon disulfide	55		"	50.0	109	10-136			0.366	30
Carbon tetrachloride	49		"	50.0	97.7	66-143			0.184	30
Chlorobenzene	48		"	50.0	96.3	86-120			3.69	30
Chloroethane	51		"	50.0	102	51-142			1.59	30
Chloroform	48		"	50.0	96.6	76-131			3.58	30
Chloromethane	50		"	50.0	101	49-132			3.87	30
cis-1,2-Dichloroethylene	48		"	50.0	95.6	74-132			2.32	30
cis-1,3-Dichloropropylene	47		"	50.0	93.4	81-129			5.05	30
Cyclohexane	47		"	50.0	93.2	70-130			3.10	30
Dibromochloromethane	54		"	50.0	108	10-200			3.35	30
Dibromomethane	49		"	50.0	98.3	83-124			2.13	30
Dichlorodifluoromethane	46		"	50.0	92.7	28-158			3.95	30
Ethyl Benzene	46		"	50.0	93.0	84-125			3.20	30
Hexachlorobutadiene	45		"	50.0	90.5	83-133			5.83	30
Isopropylbenzene	47		"	50.0	93.9	81-127			2.92	30
Methyl acetate	39		"	50.0	78.9	41-143			6.93	30
Methyl tert-butyl ether (MTBE)	50		"	50.0	99.7	74-131			1.85	30
Methylcyclohexane	47		"	50.0	94.0	70-130			2.71	30
Methylene chloride	48		"	50.0	96.1	57-141			1.45	30
n-Butylbenzene	45		"	50.0	89.7	80-130			5.99	30



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF81466 - EPA 5035A

LCS Dup (BF81466-BSD1)	Prepared & Analyzed: 06/27/2018										
n-Propylbenzene	46		ug/L	50.0	92.1	74-136		3.69	30		
o-Xylene	48		"	50.0	95.2	83-123		3.73	30		
p- & m- Xylenes	90		"	100	90.2	82-128		4.62	30		
p-Isopropyltoluene	46		"	50.0	91.4	85-125		5.26	30		
sec-Butylbenzene	50		"	50.0	99.4	83-125		2.88	30		
Styrene	46		"	50.0	91.1	86-126		5.92	30		
tert-Butyl alcohol (TBA)	250		"	250	102	70-130		2.56	30		
tert-Butylbenzene	48		"	50.0	95.1	80-127		1.90	30		
Tetrachloroethylene	43		"	50.0	85.9	80-129		6.18	30		
Toluene	48		"	50.0	95.6	85-121		1.99	30		
trans-1,2-Dichloroethylene	46		"	50.0	92.6	72-132		3.77	30		
trans-1,3-Dichloropropylene	48		"	50.0	95.9	78-132		2.33	30		
trans-1,4-dichloro-2-butene	48		"	50.0	97.0	75-135		1.90	30		
Trichloroethylene	48		"	50.0	96.8	84-123		4.43	30		
Trichlorofluoromethane	48		"	50.0	96.8	62-140		1.72	30		
Vinyl Chloride	49		"	50.0	97.9	52-130		1.80	30		
Surrogate: 1,2-Dichloroethane-d4	49.1		"	50.0	98.1	77-125					
Surrogate: Toluene-d8	50.0		"	50.0	100	85-120					
Surrogate: p-Bromofluorobenzene	50.9		"	50.0	102	76-130					



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
18F0837-01	SB17(26-27)	40mL Vial with Stir Bar-Cool 4° C
18F0837-02	SB17(29-31)	40mL Vial with Stir Bar-Cool 4° C
18F0837-03	SB17(31-32)	40mL Vial with Stir Bar-Cool 4° C
18F0837-04	SB18(26-28)	40mL Vial with Stir Bar-Cool 4° C
18F0837-05	SB18(29-31)	40mL Vial with Stir Bar-Cool 4° C
18F0837-06	SB19(27-29)	40mL Vial with Stir Bar-Cool 4° C
18F0837-07	SB19(31-33)	40mL Vial with Stir Bar-Cool 4° C
18F0837-08	SB13(22-23)	40mL Vial with Stir Bar-Cool 4° C
18F0837-09	SB13(23-24)	40mL Vial with Stir Bar-Cool 4° C
18F0837-10	SB15(26-28)	40mL Vial with Stir Bar-Cool 4° C
18F0837-11	SB15(31-32)	40mL Vial with Stir Bar-Cool 4° C
18F0837-12	SB14(23-24)	40mL Vial with Stir Bar-Cool 4° C
18F0837-13	SB14(26-28)	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
18F0837-14	SB14(31-32)	40mL Vial with Stir Bar-Cool 4° C
18F0837-15	SB16(29-30)	40mL Vial with Stir Bar-Cool 4° C
18F0837-16	SB16(30-32)	40mL Vial with Stir Bar-Cool 4° C



Sample and Data Qualifiers Relating to This Work Order

- SCAL-E The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%).
- S-09 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect confirmed by re-extraction and re-analysis of the sample.
- Rep-04 The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.
- QL-02 This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
- J Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
- IS-LO The internal std associated with this target compound did not meet acceptance criteria (area <50% CCV) at the stated dilution due to matrix effects. Sample was rerun to confirm matrix effects.
- CCV-E The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence . This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.



If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Revision Description: This report has been revised for VOA methylcyclohexane.



York Analytical Laboratories, Inc.
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www.yorklab.com

Field Chain-of-Custody Record

YORK Project No.
1B70B37

YORK
ANALYTICAL LABORATORIES INC.

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
Your signature binds you to YORK's Standard Terms & Conditions.

Page 1 of 2

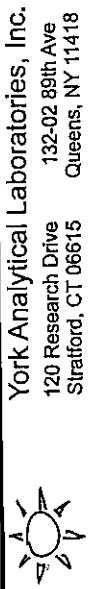
YOUR Information		Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: YSP	Company: <u>Same</u>	Company: <u>Same</u>	Address: _____	314014510000	RUSH - Next Day
Address: <u>4 Research Dr. Site 204</u>	Address: _____	Address: _____	Phone: _____	YOUR Project Name Powe Industries	RUSH - Two Day
Phone: Shelton CT 06484	Phone: _____	Contact: _____	Contact: _____	Phone: _____	RUSH - Three Day
Phone: 203-929-8555	Phone: _____	E-mail: _____	E-mail: _____	E-mail: _____	RUSH - Four Day
Contact: <u>Mark Goldwery</u>	Contact: _____	E-mail: _____	E-mail: _____	E-mail: _____	Standard (5-7 Day) <input checked="" type="checkbox"/>

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Sierra K Anseeuw

Samples Collected by: (print your name above and sign below)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
SB17(26-27)	S	6/18/18 10:25	VOCs, TOC	(H)VOCs + (1) 2-02
SB17(29-31)		10:30	VOCs	
SB17(31-32)		10:35	VOCs	
SB18(26-28)		11:20	VOCs, TOC	+ (1) 2-02
SB18(29-31)		11:30	VOCs	
SB19(27-29)		12:40	VOCs, TOC	+ (1) 2-02
SB19(31-33)		12:50	VOCs	
SB13(22-23)		14:25	VOCs	
SB13(23-24)		14:30	VOCs, TOC	+ (1) 2-02
SB15(26-28)		15:50	VOCs, TOC	+ (1) 2-02
Preservation: (check all that apply)				Special Instruction
<input checked="" type="checkbox"/> HCl <input checked="" type="checkbox"/> MeOH <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> H ₂ SO ₄ <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> ZnAc				Field Filtered _____ Lab to Filter _____
<input checked="" type="checkbox"/> Ascorbic Acid <input checked="" type="checkbox"/> Other: DL				Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Samples Relinquished by / Company	Date/Time
	6/19/18 8:40		Samples Received by / Company	Date/Time
Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time	Temp. Received at Lab
				620-0822-5



York Analytical Laboratories, Inc.
120 Research Drive
Stratford, CT 06615

Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

YORK
ANALYTICAL LABORATORIES INC.

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No.
1850837

Page 2 of 2

YOUR Information		Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: UJSP	Address: 4 Research Dr Ste 204 Shelton Ct 06484	Company: Savme Address:	Phone: _____ Contact: _____ E-mail: _____	31401451.000	RUSH - Next Day RUSH - Two Day RUSH - Three Day RUSH - Four Day Standard (5-7 Day) X
Phone: 203-929-8555	Contact: Mark Goldberg	Phone: _____ Contact: _____ E-mail: _____	Phone: _____ Contact: _____ E-mail: _____	YOUR Project Name Rose Industries	YOUR PO#:

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Stenek Anseeuw
Samples Collected by: (print your name above and sign below)
[Signature]

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested		Container Description
			Matrix Codes	Samples From	
SB15 (31-32)	S - soil / solid	6/19/18 1600	VOCS	New York	(4) VOA (1) VOC
SB14 (23-24)	GW - groundwater	6/19/18 1645	VOCS, TOC	New Jersey	(4) VOA A
SB14 (26-28)	DW - drinking water	6/20/18 1650	VOCS, TOC	Connecticut	(4) VOA, (1) VOC
SB14 (31-32)	WW - wastewater	6/20/18 1700	VOCS	Pennsylvania	(4) VOA
SB14 (29-30)	O - Oil	6/20/18 1750	VOCS, TOC	Other	(4) VOA, (1) 2-82
SB16 (30-32)	Other	6/20/18 1800	VOCS		(4) VOA

Preservation: (check all that apply)

HCl	MeOH	HNO ₃	H ₂ SO ₄	NaOH	ZnAc	Field Filtered	Lab to Filter
<input checked="" type="checkbox"/>							
Ascorbic Acid	Other:	D					
Date/Time						Date/Time	
Samples Received by / Company						Samples Relinquished by / Company	

Special Instruction

Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received at Lab by	Date/Time	Temp. Received at Lab	Degrees C
6/19/18 840	<i>[Signature]</i>	6/19/18 840	<i>[Signature]</i>				6-20-18 02:55	Degrees C



July 19, 2018

Mark Goldberg
Sr. Environmental Engineer, P.E.



WSP USA
4 Research Drive, Suite 204
Shelton, CT 06484

RE: Former Rowe Industries Superfund Site, Kraft FDSA Characterization, 1668 Sag Harbor Turnpike, Sag Harbor, NY Potassium Permanganate Soil Oxidation Demand Study Draft Report

Terra Systems, Inc. (TSI) is pleased to submit this draft report for the potassium permanganate soil oxidant demand (SOD) tests for the Former Rowe Industries Superfund Site, Kraft FDSA Characterization, 1668 Sag Harbor Turnpike, Sag Harbor, NY. To date, TSI has conducted treatability studies at over 100 sites in support of in situ chemical oxidation using potassium and sodium permanganate, activated persulfate, catalyzed hydrogen peroxide, or ozone or in situ chemical reduction of volatile organics, semivolatiles organics, and metals. TSI does not perform in situ chemical oxidation or in situ reduction field projects, but works with a number of environmental engineering consultants including ERM, AMEC, TRC, Moraine Environmental, AECOM, WSP, GZA, and others to evaluate chemical oxidant demand and effectiveness in the laboratory before the consultants go to pilot or full-scale implementation. The treatability work was directed by Michael D. Lee, Ph.D. He has over 30 years of experience in conducting treatability studies and in situ bioremediation of chlorinated solvents and hydrocarbons. He has published over 100 papers.

The study was designed to evaluate the soil oxidant demand (SOD) of up fourteen soil samples for potassium permanganate. Representative soil samples were collected from the site on June 18, 2018 by WSP for use in the study. Approximately 0.4 kilograms of each soil in 8-ounce jars were shipped via UPS on ice using standard Chain-of-Custody procedures on July 9, 2018 to:

Dr. Michael Lee
Terra Systems, Inc.
130 Hickman Road
Claymont DE 19703
Phone: 302-798-9553

The Chain-of-Custody form is attached as Exhibit A. The samples were received on July 10, 2018.

PERMANGANATE SOIL OXIDATION DEMAND STUDY

Permanganate Oxidant Demand Test

Each soil sample was mixed as thoroughly as possible. The soil density was measured by filling a tared 25 mL graduated cylinder to 15 mL, tamping down with spatula, and weighing the soil. The testing was conducted by reacting a known mass of soil with sodium or potassium permanganate concentrations according to the ASTM Protocol D 7262 – 07 Standard Test Method for Estimating the Permanganate Natural Oxidant Demand of Soil and Aquifer Solids. This test method covers the estimation of the permanganate natural oxidant demand (PNOD) through the determination of the quantity of potassium permanganate (KMnO_4) that organic matter and other naturally occurring oxidizable species present in soil or aquifer solids will consume under specified conditions as a function of time. Two hundred g of the soils were dried overnight at 103 °C. Then 50 g aliquots of the dry soil were added to three 120 mL jars for each sample. The weight of jar, soil and jar, and dry weight of soil and jar were recorded. A 20,000 mg/L solution of potassium permanganate (65 g in 3.25 L of distilled water) was prepared and stirred for 3 to 16 hours. A calibration curve from 1 to 100 mg/L was prepared with the 20,000 mg/L solution. Three jars of the dry soil received 100 g of the 20,000 mg/L potassium permanganate solution. The permanganate concentrations of the test solutions and the concentrations in each jar were determined by color spectrometry using a Hach 890 colorimeter after 48 hours.

The actual total soil permanganate demand concentrations were calculated from the amount added to the bottle less the remaining concentration. Results from this test were reported as grams of permanganate consumed per kilogram of dry-weight soil.

Results

Fourteen soil samples were collected. Four samples were evaluated initially – SB13 23-24', SB15 26-28, SB18 26-28', and SB19 31-33'. Approval was given on July 11, 2018 to evaluate another six samples: SB13 22-23', SB14 26-28', SB 14 31-32', SB17 26-27', SB18 29-31', and SB19 27-29'.

Table 1 presents a description of the soil samples, the percent moisture, wet soil density in g/cm^3 , and pounds/foot³, the measured permanganate concentrations, and the results of the potassium permanganate soil oxidant demands on a dry weight basis (mg/kg) and soil oxidant demands on a wet weight basis (mg/kg and pounds/cubic feet). The average soil oxidant demand on a dry weight basis ranged from an average of 0 mg/kg (SB14 26-28', SB15 26-28', and SB19 27-29') to 17,199 mg/kg (SB18 29-31'). The coarse sand and medium sand and gravel samples from SB14 26-28', SB15 26-28', SB17 at 26-27', and SB19 27-29' had potassium permanganate concentrations which were slightly higher than the initial potassium permanganate solution in some replicates indicating that the permanganate solution continued to dissolve over the 48 hour incubation period and that there was no oxidant demand. On a wet basis, the permanganate soil

oxidant demands ranged between 0 and 7.7 pounds per cubic foot of aquifer based upon the soil density and moisture content.

Conclusions

These permanganate soil oxidant demands other than SB18 29-31' are low in comparison to other sites. Potassium permanganate should effectively treat the chlorinated ethene contamination at this site. The intervals with more clay in samples SB13 23-24', SB14 31-32', SB18 29-31', and SB19 31-33' typically had higher soil oxidant demands and would require more potassium permanganate to treat.

Sincerely,
TERRA SYSTEMS, INC.



Michael D. Lee, Ph.D.
Vice-President
Research and Development

Table 1. Potassium Permanganate Soil Oxidant Testing Results

Sample	Depth		Description	Weight Soil	Weight Dry	Moisture	Wet Soil Density	Wet Soil Density	KMnO4	KMnO4 SOD	KMnO4 SOD	KMnO4 SOD
				g	g	%	g/cm ³	pounds/ft ³	mg/L	mg/kg Dry	mg/kg Wet	pounds/ft ³ Wet
SB13	22-23'	A	Gravel and sand, standing water	200.0	178.0	11.0	2.26	141	20188	0	0	
		B							17541	4918	4431	
		C							18600	2800	2523	
		Avg								2573	2318	1.6
SB13	23-24'	A	Sandy clay	200.0	164.3	17.9	1.88	117	17759	4482	3798	
		B							18998	2004	1698	
		C							18644	2712	2298	
		Avg								3066	2598	1.5
SB14	26-28'	A	Medium sand, gravel	200.0	176.4	11.8	1.90	119	20252	0	0	
		B							19955	90	81	
		C							19968	64	57	
		Avg								51	46	0.0
SB14	31-32'	A	Fine sand, clay	200.0	154.4	22.8	1.90	108	18342	3316	2700	
		B							18019	3962	3226	
		C							19168	1664	1355	
		Avg								2981	2427	1.3
SB15	26-28'	A	Coarse sand	200.0	165.5	17.3	1.82	114	21314	0		
		B							20931	0		
		C							21358	0		
		Avg								0	0	0
SB17	26-27'	A	Medium sand	200.0	165.4	17.3	1.75	109	20265	0	0	
		B							20381	0	0	
		C							19826	348	297	
		Avg								116	99	0.1
SB18	26-28'	A	Medium sand, some black sediment	200.0	160.1	20.0	1.84	115	19603	794	662	
		B							19692	616	513	
		C							19898	204	170	
		Avg								538	448	0.3
SB18	29-31'	A	Fine sand, clay, some dark layer	200.0	160.2	19.9	1.78	111	9937	20126	16772	
		B							11745	16510	13758	
		C							12519	14962	12468	
		Avg								17199	14333	7.7
SB19	27-29'	A	Medium sand, some gravel	200.0	173.6	13.2	1.74	109	20110	0	0	
		B							20343	0	0	
		C							20330	0	0	
		Avg								0	0	0.0
SB19	31-33'	A	Clayey	200.0	154.2	22.9	1.78	111	18364	3272	2664	
		B							19043	1914	1559	
		C							19249	1502	1223	
		Avg								2229	1815	1.0

ATTACHMENT A CHAIN-OF-CUSTODY

TERRA SYSTEMS, INC.

Chain of Custody

130 Hicken Road, Suite 1, Clifton, NJ 07011 phone 302-718-9553 fax 302-798-9551

Project Description							Parameters for Analysis							
Client: WSP USA		Project Name: former Rohr Industries Superfund Site		Lat:			Parameter				Method			
Project Description		Project Manager/Contact: Mark Goldberg		Lat:			Parameter				Method			
Address: 1000 River Street, Secaucus, NJ		Phone: 201-928-8556												
Blaster: 800-877-0000														
Date	Time	Sample Identification (and sample depth)		Sample Technique	Mixix	Prear-valve	Container Type	Number of Containers	Permittee Name/Order Number ASTM T202-07					Remarks
Date: July 11, 2018 Removal of the holds from 6 samples was authorized by the client so please analyze a total of 10 samples while 4 samples remain on hold. Thanks, Mark M. Goldberg														
6/8/2018	14:28	SB 13 (22-23) HOLD		grab	sol	none	8 oz glass	1	X					HOLD UNLESS DICTED OTHERWISE
6/8/2018	14:30	SB 13 (23-24)		grab	sol	none	8 oz glass	1	X					HOLD UNLESS DICTED OTHERWISE
6/8/2018	18:50	SB 14 (26-28) HOLD		grab	sol	none	8 oz glass	1	X					HOLD UNLESS DICTED OTHERWISE
6/8/2018	17:00	SB 14 (31-32) HOLD		grab	sol	none	8 oz glass	1	X					HOLD UNLESS DICTED OTHERWISE
6/8/2018	15:50	SB 15 (28-28)		grab	sol	none	8 oz glass	1	X					HOLD UNLESS DICTED OTHERWISE
6/8/2018	18:00	SB 16 (31-32) HOLD		grab	sol	none	8 oz glass	1	X					HOLD UNLESS DICTED OTHERWISE
6/8/2018	17:50	SB 16 (29-30) HOLD		grab	sol	none	8 oz glass	1	X					HOLD UNLESS DICTED OTHERWISE
6/8/2018	16:00	SB 16 (30-32) HOLD		grab	sol	none	8 oz glass	1	X					HOLD UNLESS DICTED OTHERWISE
6/8/2018	10:20	SB 17 (28-27) HOLD		grab	sol	none	8 oz glass	1	X					HOLD UNLESS DICTED OTHERWISE
6/8/2018	10:35	SB 17 (31-32) HOLD		grab	sol	none	8 oz glass	1	X					HOLD UNLESS DICTED OTHERWISE
6/8/2018	11:20	SB 18 (28-28)		grab	sol	none	8 oz glass	1	X					HOLD UNLESS DICTED OTHERWISE
6/8/2018	11:30	SB 18 (29-31) HOLD		grab	sol	none	8 oz glass	1	X					HOLD UNLESS DICTED OTHERWISE
6/8/2018	12:40	SB 19 (27-28) HOLD		grab	sol	none	8 oz glass	1	X					HOLD UNLESS DICTED OTHERWISE
6/8/2018	12:50	SB 19 (31-33)		grab	sol	none	8 oz glass	1	X					HOLD UNLESS DICTED OTHERWISE
Befurnished by (signature)		Date/time		Received by (signature)		Date/time		Shipped to:		Comments:				
		7/8/18 1:30		WSP Fridge		6/20/18 1:30		WSP USA		4 Research Drive, Suite 204 Shelton, CT 06484				
Fridge Mark M. Goldberg Michael Lee		7/8/18 10:00 7/9/18 11:10		Mark Goldberg Michael Lee		7/9/18 8:05 7/10/18 8:00				Attn: Mark Goldberg				
Comments: email results and invoice to Mark.Goldberg@wsp.com														
Center Temperature		°C		pH										
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Report Date:
 11-Jul-18 14:54

Laboratory Report
SC47887

WSP USA- Shelton, CT
 4 Research Drive Suite 204
 Shelton, CT 06484
 Attn: Mark Goldberg

Project: Rowe Industries - Sag Harbor, NY
 Project #: 31401451.000

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.

All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
 Connecticut # PH-0777
 Florida # E87936
 Maine # MA138
 New Hampshire # 2972/2538
 New Jersey # MA011
 New York # 11393
 Pennsylvania # 68-04426/68-02924
 Rhode Island # LAO00348
 USDA # P330-15-00375
 Vermont # VT-11393

Authorized by:

Christina White
 Technical Director



Christina A. White

Eurofins Spectrum Analytical holds primary NELAC certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 30 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Spectrum Analytical, Inc.

Eurofins Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Eurofins Spectrum Analytical, Inc. is currently accredited for the specific method or analyte indicated. Please refer to our Quality web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Eurofins Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (PA-68-04426).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Sample Summary

Work Order: SC47887
Project: Rowe Industries - Sag Harbor, NY
Project Number: 31401451.000

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SC47887-01	MW-98-01A	Ground Water	19-Jun-18 13:55	21-Jun-18 17:00
SC47887-02	MW-98-04	Ground Water	19-Jun-18 15:15	21-Jun-18 17:00
SC47887-03	MW-98-05BR	Ground Water	19-Jun-18 12:05	21-Jun-18 17:00
SC47887-04	Equipment Blank	Aqueous	19-Jun-18 11:00	21-Jun-18 17:00
SC47887-05	Trip Blank	Aqueous	19-Jun-18 00:00	21-Jun-18 17:00

CASE NARRATIVE:

Data has been reported to the RDL. This report includes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the detection limit are reported as “<” (less than) the detection limit in this report.

The samples were received 1.2 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group. If method or program required MS/MSD/Dup were not performed, sufficient sample was not provided to the laboratory.

July 11, 2018 Report Revision Case Narrative:

This report has been revised to change the matrix from surface water to groundwater per client request.

July 11, 2018 Report Revision Case Narrative:

This report has been revised to correct the sample ID for SC47887-03 from MW-98-05AR to MW-98-05BR and to change the matrix from surface water to groundwater for samples SC47887-01, -02 and -03 per client request.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8260C

Calibration:

1806025

Analyte quantified by quadratic equation type calibration.

1,1-Dichloropropene
1,2,3-Trichlorobenzene
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,2-Dibromo-3-chloropropane
1,3,5-Trimethylbenzene
2-Chlorotoluene
2-Hexanone (MBK)
4-Chlorotoluene
4-Isopropyltoluene
4-Methyl-2-pentanone (MIBK)
Bromodichloromethane
Bromoform
Carbon tetrachloride
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
m,p-Xylene
Naphthalene
n-Butylbenzene
n-Propylbenzene
o-Xylene
sec-Butylbenzene
Styrene
tert-Butylbenzene
trans-1,3-Dichloropropene

SW846 8260C

Calibration:

1806025

This affected the following samples:

1808754-BLK1
1808754-BS1
1808754-BSD1
Equipment Blank
MW-98-01A
MW-98-04
MW-98-05BR
S820051-ICV1
S820339-CCV1
Trip Blank

Samples:

S820339-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

2,2-Dichloropropane (-20.8%)
Chloromethane (-24.3%)

This affected the following samples:

1808754-BLK1
1808754-BS1
1808754-BSD1
Equipment Blank
MW-98-01A
MW-98-04
MW-98-05BR
Trip Blank

Sample Acceptance Check Form

Client: WSP USA- Shelton, CT
Project: Rowe Industries - Sag Harbor, NY / 31401451.000
Work Order: SC47887
Sample(s) received on: 6/21/2018

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	<u>Yes</u>	<u>No</u>	<u>N/A</u>
Were custody seals present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Were custody seals intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Were samples received at a temperature of $\leq 6^{\circ}\text{C}$?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples refrigerated upon transfer to laboratory representative?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were sample containers received intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples accompanied by a Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Did sample container labels agree with Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples received within method-specific holding times?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Summary of Hits

Lab ID: SC47887-01

Client ID: MW-98-01A

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Sulfate as SO ₄	9.15		1.00	mg/l	EPA 300.0
Sulfide	0.53		0.13	mg/l	SM4500S-D-11
Total Organic Carbon	0.962	J	1.00	mg/l	SM5310B (00, 11)
Iron	2.98		0.125	mg/l	SW846 6010C
Iron (dissolved)	3.05		0.250	mg/l	SW846 6010C
Tetrachloroethene	0.77	J	1.00	µg/l	SW846 8260C

Lab ID: SC47887-02

Client ID: MW-98-04

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Sulfate as SO ₄	12.2		1.00	mg/l	EPA 300.0
Total Organic Carbon	0.942	J	1.00	mg/l	SM5310B (00, 11)
Iron	8.70		0.125	mg/l	SW846 6010C
Iron (dissolved)	0.687		0.250	mg/l	SW846 6010C
Tetrachloroethene	2.17		1.00	µg/l	SW846 8260C

Lab ID: SC47887-03

Client ID: MW-98-05BR

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Sulfate as SO ₄	16.0		1.00	mg/l	EPA 300.0
Total Organic Carbon	1.74		1.00	mg/l	SM5310B (00, 11)
Iron	0.608		0.125	mg/l	SW846 6010C
Iron (dissolved)	0.120	J	0.250	mg/l	SW846 6010C

Lab ID: SC47887-04

Client ID: Equipment Blank

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acetone	9.39	J	10.0	µg/l	SW846 8260C
Chloromethane	1.35	J	2.00	µg/l	SW846 8260C
Methylene chloride	0.52	J	2.00	µg/l	SW846 8260C

Please note that because there are no reporting limits associated with hazardous waste characterizations or micro analyses, this summary does not include hits from these analyses if included in this work order.

Sample Identification

MW-98-01A

SC47887-01

Client Project #

31401451.000

Matrix

Ground Water

Collection Date/Time

19-Jun-18 13:55

Received

21-Jun-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	Ua	µg/l	1.00	0.58	1	SW846 8260C	25-Jun-18	26-Jun-18	GMA	1808754	X
67-64-1	Acetone	< 10.0	Ua	µg/l	10.0	3.76	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.50	Ua	µg/l	0.50	0.48	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00	Ua	µg/l	1.00	0.34	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.00	Ua	µg/l	1.00	0.28	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00	Ua	µg/l	1.00	0.34	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50	Ua	µg/l	0.50	0.29	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00	Ua	µg/l	1.00	0.24	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00	Ua	µg/l	2.00	0.45	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00	Ua	µg/l	2.00	0.70	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.00	Ua	µg/l	1.00	0.47	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.00	Ua	µg/l	1.00	0.31	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.00	Ua	µg/l	1.00	0.30	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00	Ua	µg/l	2.00	0.70	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00	Ua	µg/l	1.00	0.39	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00	Ua	µg/l	1.00	0.30	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00	Ua	µg/l	2.00	0.40	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00	Ua	µg/l	2.00	0.36	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.00	Ua	µg/l	1.00	0.31	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00	Ua	µg/l	2.00	0.47	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50	Ua	µg/l	0.50	0.29	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50	Ua	µg/l	0.50	0.30	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.00	Ua	µg/l	1.00	0.27	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00	Ua	µg/l	1.00	0.24	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00	Ua	µg/l	1.00	0.30	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00	Ua	µg/l	1.00	0.27	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00	Ua	µg/l	2.00	0.34	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00	Ua	µg/l	1.00	0.18	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00	Ua	µg/l	1.00	0.31	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00	Ua	µg/l	1.00	0.40	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00	Ua	µg/l	1.00	0.38	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.00	Ua	µg/l	1.00	0.44	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.00	Ua	µg/l	1.00	0.33	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50	Ua	µg/l	0.50	0.33	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50	Ua	µg/l	0.50	0.31	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00	Ua	µg/l	1.00	0.32	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.50	Ua	µg/l	0.50	0.26	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00	Ua	µg/l	2.00	0.63	1	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

MW-98-01A

SC47887-01

Client Project #

31401451.000

Matrix

Ground Water

Collection Date/Time

19-Jun-18 13:55

Received

21-Jun-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
98-82-8	Isopropylbenzene	< 1.00	Ua	µg/l	1.00	0.30	1	SW846 8260C	25-Jun-18	26-Jun-18	GMA	1808754	X
99-87-6	4-Isopropyltoluene	< 1.00	Ua	µg/l	1.00	0.42	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00	Ua	µg/l	1.00	0.30	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00	Ua	µg/l	2.00	0.35	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00	Ua	µg/l	2.00	0.38	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 2.00	Ua	µg/l	2.00	1.39	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.00	Ua	µg/l	1.00	0.32	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00	Ua	µg/l	1.00	0.33	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00	Ua	µg/l	1.00	0.32	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	Ua	µg/l	0.50	0.26	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	0.77	J	µg/l	1.00	0.31	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00	Ua	µg/l	1.00	0.38	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00	Ua	µg/l	1.00	0.32	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.00	Ua	µg/l	1.00	0.39	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.00	Ua	µg/l	1.00	0.24	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.00	Ua	µg/l	1.00	0.31	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.00	Ua	µg/l	1.00	0.36	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00	Ua	µg/l	1.00	0.28	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.00	Ua	µg/l	1.00	0.26	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.00	Ua	µg/l	1.00	0.62	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.00	Ua	µg/l	1.00	0.54	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00	Ua	µg/l	1.00	0.40	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00	Ua	µg/l	2.00	0.47	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00	Ua	µg/l	1.00	0.41	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.00	Ua	µg/l	2.00	0.50	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.00	Ua	µg/l	1.00	0.30	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0	Ua	µg/l	10.0	3.13	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0	Ua	µg/l	20.0	5.81	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.00	Ua	µg/l	5.00	0.61	1	"	"	"	"	"	X
64-17-5	Ethanol	< 200	Ua	µg/l	200	13.2	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	94	70-130 %	"	"	"	"	"
2037-26-5	Toluene-d8	93	70-130 %	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	97	70-130 %	"	"	"	"	"
1868-53-7	Dibromofluoromethane	99	70-130 %	"	"	"	"	"

Total Metals by EPA 200/6000 Series MethodsPrepared by method General Prep-Metal*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification

MW-98-01A

SC47887-01

Client Project #

31401451.000

Matrix

Ground Water

Collection Date/Time

19-Jun-18 13:55

Received

21-Jun-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Total Metals by EPA 200/6000 Series Methods													
<u>Prepared by method General Prep-Metal</u>													
	Preservation		Field Preserved; pH<2 confirmed	N/A			1	EPA 200/6000 methods	22-Jun-18		KP1	1808718	
Total Metals by EPA 6000/7000 Series Methods													
<u>Prepared by method SW846 3005A</u>													
7439-89-6	Iron	2.98		mg/l	0.125	0.0045	1	SW846 6010C	28-Jun-18	30-Jun-18	SJR/T	1809004	X
Soluble Metals by EPA 6000/7000 Series Methods													
<u>Prepared by method SW846 3005A</u>													
7439-89-6	Iron	3.05		mg/l	0.250	0.0089	1	SW846 6010C	27-Jun-18	29-Jun-18	SJR/T	1808906	X
General Chemistry Parameters													
14808-79-8	Sulfate as SO4	9.15		mg/l	1.00	0.798	1	EPA 300.0	21-Jun-18	21-Jun-18	TN	1808650	X
	Total Organic Carbon	0.962	J	mg/l	1.00	0.238	1	SM5310B (00, 11)	29-Jun-18	29-Jun-18	RLT	1809105	X
Dissolved Gas Analysis													
Dissolved Gases													
<u>Prepared by method General Air Prep</u>													
74-82-8	Methane	< 2.20	Ua	µg/l	2.20	2.16	1	RSK-175	27-Jun-18	27-Jun-18	SAD	1808994	
74-84-0	Ethane	< 5.00	Ua	µg/l	5.00	3.48	1	"	"	"	"	"	
74-85-1	Ethene	< 5.00	Ua	µg/l	5.00	4.58	1	"	"	"	"	"	
Subcontracted Analyses													
<u>Prepared by method 436179-SM450</u>													
<i>Analysis performed by Phoenix Environmental Labs, Inc. * - CT007</i>													
18496-25-8	Sulfide	0.53		mg/l	0.13	0.13	2.5	SM4500S-D-11	26-Jun-18	26-Jun-18	11301	436179A	11:11

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Sample Identification

MW-98-04

SC47887-02

Client Project #

31401451.000

Matrix

Ground Water

Collection Date/Time

19-Jun-18 15:15

Received

21-Jun-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	Ua	µg/l	1.00	0.58	1	SW846 8260C	25-Jun-18	26-Jun-18	GMA	1808754	X
67-64-1	Acetone	< 10.0	Ua	µg/l	10.0	3.76	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.50	Ua	µg/l	0.50	0.48	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00	Ua	µg/l	1.00	0.34	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.00	Ua	µg/l	1.00	0.28	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00	Ua	µg/l	1.00	0.34	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50	Ua	µg/l	0.50	0.29	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00	Ua	µg/l	1.00	0.24	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00	Ua	µg/l	2.00	0.45	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00	Ua	µg/l	2.00	0.70	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.00	Ua	µg/l	1.00	0.47	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.00	Ua	µg/l	1.00	0.31	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.00	Ua	µg/l	1.00	0.30	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00	Ua	µg/l	2.00	0.70	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00	Ua	µg/l	1.00	0.39	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00	Ua	µg/l	1.00	0.30	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00	Ua	µg/l	2.00	0.40	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00	Ua	µg/l	2.00	0.36	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.00	Ua	µg/l	1.00	0.31	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00	Ua	µg/l	2.00	0.47	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50	Ua	µg/l	0.50	0.29	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50	Ua	µg/l	0.50	0.30	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.00	Ua	µg/l	1.00	0.27	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00	Ua	µg/l	1.00	0.24	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00	Ua	µg/l	1.00	0.30	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00	Ua	µg/l	1.00	0.27	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00	Ua	µg/l	2.00	0.34	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00	Ua	µg/l	1.00	0.18	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00	Ua	µg/l	1.00	0.31	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00	Ua	µg/l	1.00	0.40	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00	Ua	µg/l	1.00	0.38	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.00	Ua	µg/l	1.00	0.44	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.00	Ua	µg/l	1.00	0.33	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50	Ua	µg/l	0.50	0.33	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50	Ua	µg/l	0.50	0.31	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00	Ua	µg/l	1.00	0.32	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.50	Ua	µg/l	0.50	0.26	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00	Ua	µg/l	2.00	0.63	1	"	"	"	"	"	X

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Sample Identification

MW-98-04

SC47887-02

Client Project #

31401451.000

Matrix

Ground Water

Collection Date/Time

19-Jun-18 15:15

Received

21-Jun-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
98-82-8	Isopropylbenzene	< 1.00	Ua	µg/l	1.00	0.30	1	SW846 8260C	25-Jun-18	26-Jun-18	GMA	1808754	X
99-87-6	4-Isopropyltoluene	< 1.00	Ua	µg/l	1.00	0.42	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00	Ua	µg/l	1.00	0.30	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00	Ua	µg/l	2.00	0.35	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00	Ua	µg/l	2.00	0.38	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 2.00	Ua	µg/l	2.00	1.39	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.00	Ua	µg/l	1.00	0.32	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00	Ua	µg/l	1.00	0.33	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00	Ua	µg/l	1.00	0.32	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	Ua	µg/l	0.50	0.26	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	2.17		µg/l	1.00	0.31	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00	Ua	µg/l	1.00	0.38	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00	Ua	µg/l	1.00	0.32	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.00	Ua	µg/l	1.00	0.39	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.00	Ua	µg/l	1.00	0.24	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.00	Ua	µg/l	1.00	0.31	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.00	Ua	µg/l	1.00	0.36	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00	Ua	µg/l	1.00	0.28	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.00	Ua	µg/l	1.00	0.26	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.00	Ua	µg/l	1.00	0.62	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.00	Ua	µg/l	1.00	0.54	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00	Ua	µg/l	1.00	0.40	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00	Ua	µg/l	2.00	0.47	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00	Ua	µg/l	1.00	0.41	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.00	Ua	µg/l	2.00	0.50	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.00	Ua	µg/l	1.00	0.30	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0	Ua	µg/l	10.0	3.13	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0	Ua	µg/l	20.0	5.81	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.00	Ua	µg/l	5.00	0.61	1	"	"	"	"	"	X
64-17-5	Ethanol	< 200	Ua	µg/l	200	13.2	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	95	70-130 %	"	"	"	"	"
2037-26-5	Toluene-d8	95	70-130 %	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	100	70-130 %	"	"	"	"	"
1868-53-7	Dibromofluoromethane	103	70-130 %	"	"	"	"	"

Total Metals by EPA 200/6000 Series Methods

Prepared by method General Prep-Metal

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Sample Identification

MW-98-04
SC47887-02

Client Project #

31401451.000

Matrix

Ground Water

Collection Date/Time

19-Jun-18 15:15

Received

21-Jun-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Total Metals by EPA 200/6000 Series Methods													
<u>Prepared by method General Prep-Metal</u>													
Preservation		Field Preserved; pH<2 confirmed		N/A			1	EPA 200/6000 methods			KP1	1808718	
Total Metals by EPA 6000/7000 Series Methods													
<u>Prepared by method SW846 3005A</u>													
7439-89-6	Iron	8.70		mg/l	0.125	0.0045	1	SW846 6010C	28-Jun-18	30-Jun-18	SJR/T	1809004	X
Soluble Metals by EPA 200/6000 Series Methods													
<u>Prepared by method General Prep-Metal</u>													
Filtration		Field Filtered		N/A			1	EPA 200.7/3005A/601 0			KP1	1808659	
Soluble Metals by EPA 6000/7000 Series Methods													
<u>Prepared by method SW846 3005A</u>													
7439-89-6	Iron	0.687		mg/l	0.250	0.0089	1	SW846 6010C	27-Jun-18	29-Jun-18	SJR/T	1808906	X
General Chemistry Parameters													
14808-79-8	Sulfate as SO4	12.2		mg/l	1.00	0.798	1	EPA 300.0	21-Jun-18	21-Jun-18	TN	1808650	X
	Total Organic Carbon	0.942	J	mg/l	1.00	0.238	1	SM5310B (00, 11)	29-Jun-18	29-Jun-18	RLT	1809105	X
Dissolved Gas Analysis													
Dissolved Gases													
<u>Prepared by method General Air Prep</u>													
74-82-8	Methane	< 2.20	Ua	µg/l	2.20	2.16	1	RSK-175	27-Jun-18	27-Jun-18	SAD	1808994	
74-84-0	Ethane	< 5.00	Ua	µg/l	5.00	3.48	1	"	"	"	"	"	
74-85-1	Ethene	< 5.00	Ua	µg/l	5.00	4.58	1	"	"	"	"	"	
Subcontracted Analyses													
<u>Prepared by method 436179-SM450</u>													
<i>Analysis performed by Phoenix Environmental Labs, Inc. * - CT007</i>													
18496-25-8	Sulfide	< 0.05		mg/l	0.05	0.05	1	SM4500S-D-11	26-Jun-18	26-Jun-18	11301	436179A	11:11

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Sample Identification

MW-98-05BR

SC47887-03

Client Project #

31401451.000

Matrix

Ground Water

Collection Date/Time

19-Jun-18 12:05

Received

21-Jun-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	Ua	µg/l	1.00	0.58	1	SW846 8260C	25-Jun-18	26-Jun-18	GMA	1808754	X
67-64-1	Acetone	< 10.0	Ua	µg/l	10.0	3.76	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.50	Ua	µg/l	0.50	0.48	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00	Ua	µg/l	1.00	0.34	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.00	Ua	µg/l	1.00	0.28	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00	Ua	µg/l	1.00	0.34	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50	Ua	µg/l	0.50	0.29	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00	Ua	µg/l	1.00	0.24	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00	Ua	µg/l	2.00	0.45	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00	Ua	µg/l	2.00	0.70	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.00	Ua	µg/l	1.00	0.47	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.00	Ua	µg/l	1.00	0.31	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.00	Ua	µg/l	1.00	0.30	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00	Ua	µg/l	2.00	0.70	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00	Ua	µg/l	1.00	0.39	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00	Ua	µg/l	1.00	0.30	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00	Ua	µg/l	2.00	0.40	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00	Ua	µg/l	2.00	0.36	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.00	Ua	µg/l	1.00	0.31	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00	Ua	µg/l	2.00	0.47	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50	Ua	µg/l	0.50	0.29	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50	Ua	µg/l	0.50	0.30	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.00	Ua	µg/l	1.00	0.27	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00	Ua	µg/l	1.00	0.24	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00	Ua	µg/l	1.00	0.30	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00	Ua	µg/l	1.00	0.27	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00	Ua	µg/l	2.00	0.34	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00	Ua	µg/l	1.00	0.18	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00	Ua	µg/l	1.00	0.31	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00	Ua	µg/l	1.00	0.40	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00	Ua	µg/l	1.00	0.38	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.00	Ua	µg/l	1.00	0.44	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.00	Ua	µg/l	1.00	0.33	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50	Ua	µg/l	0.50	0.33	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50	Ua	µg/l	0.50	0.31	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00	Ua	µg/l	1.00	0.32	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.50	Ua	µg/l	0.50	0.26	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00	Ua	µg/l	2.00	0.63	1	"	"	"	"	"	X

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Sample Identification

MW-98-05BR

SC47887-03

Client Project #

31401451.000

Matrix

Ground Water

Collection Date/Time

19-Jun-18 12:05

Received

21-Jun-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
98-82-8	Isopropylbenzene	< 1.00	Ua	µg/l	1.00	0.30	1	SW846 8260C	25-Jun-18	26-Jun-18	GMA	1808754	X
99-87-6	4-Isopropyltoluene	< 1.00	Ua	µg/l	1.00	0.42	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00	Ua	µg/l	1.00	0.30	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00	Ua	µg/l	2.00	0.35	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00	Ua	µg/l	2.00	0.38	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 2.00	Ua	µg/l	2.00	1.39	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.00	Ua	µg/l	1.00	0.32	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00	Ua	µg/l	1.00	0.33	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00	Ua	µg/l	1.00	0.32	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	Ua	µg/l	0.50	0.26	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00	Ua	µg/l	1.00	0.31	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00	Ua	µg/l	1.00	0.38	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00	Ua	µg/l	1.00	0.32	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.00	Ua	µg/l	1.00	0.39	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.00	Ua	µg/l	1.00	0.24	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.00	Ua	µg/l	1.00	0.31	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.00	Ua	µg/l	1.00	0.36	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00	Ua	µg/l	1.00	0.28	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.00	Ua	µg/l	1.00	0.26	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.00	Ua	µg/l	1.00	0.62	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.00	Ua	µg/l	1.00	0.54	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00	Ua	µg/l	1.00	0.40	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00	Ua	µg/l	2.00	0.47	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00	Ua	µg/l	1.00	0.41	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.00	Ua	µg/l	2.00	0.50	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.00	Ua	µg/l	1.00	0.30	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0	Ua	µg/l	10.0	3.13	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0	Ua	µg/l	20.0	5.81	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.00	Ua	µg/l	5.00	0.61	1	"	"	"	"	"	X
64-17-5	Ethanol	< 200	Ua	µg/l	200	13.2	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	94	70-130 %	"	"	"	"	"
2037-26-5	Toluene-d8	93	70-130 %	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	99	70-130 %	"	"	"	"	"
1868-53-7	Dibromofluoromethane	101	70-130 %	"	"	"	"	"

Total Metals by EPA 200/6000 Series Methods

Prepared by method General Prep-Metal

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Sample Identification**MW-98-05BR**

SC47887-03

Client Project #

31401451.000

Matrix

Ground Water

Collection Date/Time

19-Jun-18 12:05

Received

21-Jun-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	* <u>RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Total Metals by EPA 200/6000 Series Methods													
<u>Prepared by method General Prep-Metal</u>													
Preservation		Field Preserved; pH<2 confirmed		N/A			1	EPA 200/6000 methods	22-Jun-18		KP1	1808718	
Total Metals by EPA 6000/7000 Series Methods													
<u>Prepared by method SW846 3005A</u>													
7439-89-6	Iron	0.608		mg/l	0.125	0.0045	1	SW846 6010C	28-Jun-18	30-Jun-18	SJR/T	1809004	X
Soluble Metals by EPA 200/6000 Series Methods													
<u>Prepared by method General Prep-Metal</u>													
Filtration		Field Filtered		N/A			1	EPA 200.7/3005A/601 0			KP1	1808659	
Soluble Metals by EPA 6000/7000 Series Methods													
<u>Prepared by method SW846 3005A</u>													
7439-89-6	Iron	0.120	J	mg/l	0.250	0.0089	1	SW846 6010C	27-Jun-18	29-Jun-18	SJR/T	1808906	X
General Chemistry Parameters													
14808-79-8	Sulfate as SO4	16.0		mg/l	1.00	0.798	1	EPA 300.0	21-Jun-18	21-Jun-18	TN	1808650	X
	Total Organic Carbon	1.74		mg/l	1.00	0.238	1	SM5310B (00, 11)	29-Jun-18	29-Jun-18	RLT	1809105	X
Dissolved Gas Analysis													
Dissolved Gases													
<u>Prepared by method General Air Prep</u>													
74-82-8	Methane	< 2.20	Ua	µg/l	2.20	2.16	1	RSK-175	27-Jun-18	27-Jun-18	SAD	1808994	
74-84-0	Ethane	< 5.00	Ua	µg/l	5.00	3.48	1	"	"	"	"	"	
74-85-1	Ethene	< 5.00	Ua	µg/l	5.00	4.58	1	"	"	"	"	"	
Subcontracted Analyses													
<u>Prepared by method 436179-SM450</u>													
<i>Analysis performed by Phoenix Environmental Labs, Inc. * - CT007</i>													
18496-25-8	Sulfide	< 0.05		mg/l	0.05	0.05	1	SM4500S-D-11	26-Jun-18	26-Jun-18	11301	436179A	11:12

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Sample Identification

Equipment Blank

SC47887-04

Client Project #

31401451.000

Matrix

Aqueous

Collection Date/Time

19-Jun-18 11:00

Received

21-Jun-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	Ua	µg/l	1.00	0.58	1	SW846 8260C	25-Jun-18	26-Jun-18	GMA	1808754	X
67-64-1	Acetone	9.39	J	µg/l	10.0	3.76	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.50	Ua	µg/l	0.50	0.48	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00	Ua	µg/l	1.00	0.34	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.00	Ua	µg/l	1.00	0.28	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00	Ua	µg/l	1.00	0.34	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50	Ua	µg/l	0.50	0.29	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00	Ua	µg/l	1.00	0.24	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00	Ua	µg/l	2.00	0.45	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00	Ua	µg/l	2.00	0.70	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.00	Ua	µg/l	1.00	0.47	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.00	Ua	µg/l	1.00	0.31	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.00	Ua	µg/l	1.00	0.30	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00	Ua	µg/l	2.00	0.70	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00	Ua	µg/l	1.00	0.39	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00	Ua	µg/l	1.00	0.30	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00	Ua	µg/l	2.00	0.40	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
74-87-3	Chloromethane	1.35	J	µg/l	2.00	0.36	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.00	Ua	µg/l	1.00	0.31	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00	Ua	µg/l	2.00	0.47	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50	Ua	µg/l	0.50	0.29	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50	Ua	µg/l	0.50	0.30	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.00	Ua	µg/l	1.00	0.27	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00	Ua	µg/l	1.00	0.24	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00	Ua	µg/l	1.00	0.30	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00	Ua	µg/l	1.00	0.27	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00	Ua	µg/l	2.00	0.34	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00	Ua	µg/l	1.00	0.18	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00	Ua	µg/l	1.00	0.31	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00	Ua	µg/l	1.00	0.40	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00	Ua	µg/l	1.00	0.38	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.00	Ua	µg/l	1.00	0.44	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.00	Ua	µg/l	1.00	0.33	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50	Ua	µg/l	0.50	0.33	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50	Ua	µg/l	0.50	0.31	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00	Ua	µg/l	1.00	0.32	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.50	Ua	µg/l	0.50	0.26	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00	Ua	µg/l	2.00	0.63	1	"	"	"	"	"	X

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Sample Identification

Equipment Blank

SC47887-04

Client Project #

31401451.000

Matrix

Aqueous

Collection Date/Time

19-Jun-18 11:00

Received

21-Jun-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
98-82-8	Isopropylbenzene	< 1.00	Ua	µg/l	1.00	0.30	1	SW846 8260C	25-Jun-18	26-Jun-18	GMA	1808754	X
99-87-6	4-Isopropyltoluene	< 1.00	Ua	µg/l	1.00	0.42	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00	Ua	µg/l	1.00	0.30	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00	Ua	µg/l	2.00	0.35	1	"	"	"	"	"	X
75-09-2	Methylene chloride	0.52	J	µg/l	2.00	0.38	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 2.00	Ua	µg/l	2.00	1.39	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.00	Ua	µg/l	1.00	0.32	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00	Ua	µg/l	1.00	0.33	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00	Ua	µg/l	1.00	0.32	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	Ua	µg/l	0.50	0.26	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00	Ua	µg/l	1.00	0.31	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00	Ua	µg/l	1.00	0.38	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00	Ua	µg/l	1.00	0.32	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.00	Ua	µg/l	1.00	0.39	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.00	Ua	µg/l	1.00	0.24	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.00	Ua	µg/l	1.00	0.31	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.00	Ua	µg/l	1.00	0.36	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00	Ua	µg/l	1.00	0.28	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.00	Ua	µg/l	1.00	0.26	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.00	Ua	µg/l	1.00	0.62	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.00	Ua	µg/l	1.00	0.54	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00	Ua	µg/l	1.00	0.40	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00	Ua	µg/l	2.00	0.47	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00	Ua	µg/l	1.00	0.41	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.00	Ua	µg/l	2.00	0.50	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.00	Ua	µg/l	1.00	0.30	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0	Ua	µg/l	10.0	3.13	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0	Ua	µg/l	20.0	5.81	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.00	Ua	µg/l	5.00	0.61	1	"	"	"	"	"	X
64-17-5	Ethanol	< 200	Ua	µg/l	200	13.2	1	"	"	"	"	"	X
<i>Surrogate recoveries:</i>													
460-00-4	4-Bromofluorobenzene	96			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	95			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	102			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	105			70-130 %			"	"	"	"	"	

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Sample Identification

Trip Blank

SC47887-05

Client Project #

31401451.000

Matrix

Aqueous

Collection Date/Time

19-Jun-18 00:00

Received

21-Jun-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	Ua	µg/l	1.00	0.58	1	SW846 8260C	25-Jun-18	26-Jun-18	GMA	1808754	X
67-64-1	Acetone	< 10.0	Ua	µg/l	10.0	3.76	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.50	Ua	µg/l	0.50	0.48	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00	Ua	µg/l	1.00	0.34	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.00	Ua	µg/l	1.00	0.28	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00	Ua	µg/l	1.00	0.34	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50	Ua	µg/l	0.50	0.29	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00	Ua	µg/l	1.00	0.24	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00	Ua	µg/l	2.00	0.45	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00	Ua	µg/l	2.00	0.70	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.00	Ua	µg/l	1.00	0.47	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.00	Ua	µg/l	1.00	0.31	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.00	Ua	µg/l	1.00	0.30	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00	Ua	µg/l	2.00	0.70	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00	Ua	µg/l	1.00	0.39	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00	Ua	µg/l	1.00	0.30	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00	Ua	µg/l	2.00	0.40	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00	Ua	µg/l	2.00	0.36	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.00	Ua	µg/l	1.00	0.31	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00	Ua	µg/l	2.00	0.47	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50	Ua	µg/l	0.50	0.29	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50	Ua	µg/l	0.50	0.30	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.00	Ua	µg/l	1.00	0.27	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00	Ua	µg/l	1.00	0.24	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00	Ua	µg/l	1.00	0.30	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00	Ua	µg/l	1.00	0.27	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00	Ua	µg/l	2.00	0.34	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00	Ua	µg/l	1.00	0.18	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00	Ua	µg/l	1.00	0.31	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00	Ua	µg/l	1.00	0.40	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00	Ua	µg/l	1.00	0.38	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.00	Ua	µg/l	1.00	0.44	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.00	Ua	µg/l	1.00	0.33	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50	Ua	µg/l	0.50	0.33	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50	Ua	µg/l	0.50	0.31	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00	Ua	µg/l	1.00	0.32	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.50	Ua	µg/l	0.50	0.26	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00	Ua	µg/l	2.00	0.63	1	"	"	"	"	"	X

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Sample Identification

Trip Blank
SC47887-05

Client Project #

31401451.000

Matrix

Aqueous

Collection Date/Time

19-Jun-18 00:00

Received

21-Jun-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
98-82-8	Isopropylbenzene	< 1.00	Ua	µg/l	1.00	0.30	1	SW846 8260C	25-Jun-18	26-Jun-18	GMA	1808754	X
99-87-6	4-Isopropyltoluene	< 1.00	Ua	µg/l	1.00	0.42	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00	Ua	µg/l	1.00	0.30	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00	Ua	µg/l	2.00	0.35	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00	Ua	µg/l	2.00	0.38	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 2.00	Ua	µg/l	2.00	1.39	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.00	Ua	µg/l	1.00	0.32	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00	Ua	µg/l	1.00	0.33	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00	Ua	µg/l	1.00	0.32	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	Ua	µg/l	0.50	0.26	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00	Ua	µg/l	1.00	0.31	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00	Ua	µg/l	1.00	0.38	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00	Ua	µg/l	1.00	0.32	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.00	Ua	µg/l	1.00	0.39	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.00	Ua	µg/l	1.00	0.24	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.00	Ua	µg/l	1.00	0.31	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.00	Ua	µg/l	1.00	0.36	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00	Ua	µg/l	1.00	0.28	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.00	Ua	µg/l	1.00	0.26	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.00	Ua	µg/l	1.00	0.62	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.00	Ua	µg/l	1.00	0.54	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00	Ua	µg/l	1.00	0.40	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00	Ua	µg/l	2.00	0.47	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00	Ua	µg/l	1.00	0.41	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.00	Ua	µg/l	2.00	0.50	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.00	Ua	µg/l	1.00	0.30	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.00	Ua	µg/l	1.00	0.29	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0	Ua	µg/l	10.0	3.13	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0	Ua	µg/l	20.0	5.81	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.00	Ua	µg/l	5.00	0.61	1	"	"	"	"	"	X
64-17-5	Ethanol	< 200	Ua	µg/l	200	13.2	1	"	"	"	"	"	X
<i>Surrogate recoveries:</i>													
460-00-4	4-Bromofluorobenzene	96			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	97			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	104			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	103			70-130 %			"	"	"	"	"	

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1808754 - SW846 5030 Water MS										
<u>Blank (1808754-BLK1)</u>										
<u>Prepared & Analyzed: 25-Jun-18</u>										
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	Ua	µg/l	1.00						
Acetone	< 10.0	Ua	µg/l	10.0						
Acrylonitrile	< 0.50	Ua	µg/l	0.50						
Benzene	< 1.00	Ua	µg/l	1.00						
Bromobenzene	< 1.00	Ua	µg/l	1.00						
Bromochloromethane	< 1.00	Ua	µg/l	1.00						
Bromodichloromethane	< 0.50	Ua	µg/l	0.50						
Bromoform	< 1.00	Ua	µg/l	1.00						
Bromomethane	< 2.00	Ua	µg/l	2.00						
2-Butanone (MEK)	< 2.00	Ua	µg/l	2.00						
n-Butylbenzene	< 1.00	Ua	µg/l	1.00						
sec-Butylbenzene	< 1.00	Ua	µg/l	1.00						
tert-Butylbenzene	< 1.00	Ua	µg/l	1.00						
Carbon disulfide	< 2.00	Ua	µg/l	2.00						
Carbon tetrachloride	< 1.00	Ua	µg/l	1.00						
Chlorobenzene	< 1.00	Ua	µg/l	1.00						
Chloroethane	< 2.00	Ua	µg/l	2.00						
Chloroform	0.31	J	µg/l	1.00						
Chloromethane	< 2.00	Ua	µg/l	2.00						
2-Chlorotoluene	< 1.00	Ua	µg/l	1.00						
4-Chlorotoluene	< 1.00	Ua	µg/l	1.00						
1,2-Dibromo-3-chloropropane	< 2.00	Ua	µg/l	2.00						
Dibromochloromethane	< 0.50	Ua	µg/l	0.50						
1,2-Dibromoethane (EDB)	< 0.50	Ua	µg/l	0.50						
Dibromomethane	< 1.00	Ua	µg/l	1.00						
1,2-Dichlorobenzene	< 1.00	Ua	µg/l	1.00						
1,3-Dichlorobenzene	< 1.00	Ua	µg/l	1.00						
1,4-Dichlorobenzene	< 1.00	Ua	µg/l	1.00						
Dichlorodifluoromethane (Freon12)	< 2.00	Ua	µg/l	2.00						
1,1-Dichloroethane	< 1.00	Ua	µg/l	1.00						
1,2-Dichloroethane	< 1.00	Ua	µg/l	1.00						
1,1-Dichloroethene	< 1.00	Ua	µg/l	1.00						
cis-1,2-Dichloroethene	< 1.00	Ua	µg/l	1.00						
trans-1,2-Dichloroethene	< 1.00	Ua	µg/l	1.00						
1,2-Dichloropropane	< 1.00	Ua	µg/l	1.00						
1,3-Dichloropropane	< 1.00	Ua	µg/l	1.00						
2,2-Dichloropropane	< 1.00	Ua	µg/l	1.00						
1,1-Dichloropropene	< 1.00	Ua	µg/l	1.00						
cis-1,3-Dichloropropene	< 0.50	Ua	µg/l	0.50						
trans-1,3-Dichloropropene	< 0.50	Ua	µg/l	0.50						
Ethylbenzene	< 1.00	Ua	µg/l	1.00						
Hexachlorobutadiene	< 0.50	Ua	µg/l	0.50						
2-Hexanone (MBK)	< 2.00	Ua	µg/l	2.00						
Isopropylbenzene	< 1.00	Ua	µg/l	1.00						
4-Isopropyltoluene	< 1.00	Ua	µg/l	1.00						
Methyl tert-butyl ether	< 1.00	Ua	µg/l	1.00						
4-Methyl-2-pentanone (MIBK)	< 2.00	Ua	µg/l	2.00						
Methylene chloride	< 2.00	Ua	µg/l	2.00						
Naphthalene	< 2.00	Ua	µg/l	2.00						
n-Propylbenzene	< 1.00	Ua	µg/l	1.00						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1808754 - SW846 5030 Water MS										
<u>Blank (1808754-BLK1)</u>										
<u>Prepared & Analyzed: 25-Jun-18</u>										
Styrene	< 1.00	Ua	µg/l	1.00						
1,1,1,2-Tetrachloroethane	< 1.00	Ua	µg/l	1.00						
1,1,2,2-Tetrachloroethane	< 0.50	Ua	µg/l	0.50						
Tetrachloroethene	< 1.00	Ua	µg/l	1.00						
Toluene	< 1.00	Ua	µg/l	1.00						
1,2,3-Trichlorobenzene	< 1.00	Ua	µg/l	1.00						
1,2,4-Trichlorobenzene	< 1.00	Ua	µg/l	1.00						
1,3,5-Trichlorobenzene	< 1.00	Ua	µg/l	1.00						
1,1,1-Trichloroethane	< 1.00	Ua	µg/l	1.00						
1,1,2-Trichloroethane	< 1.00	Ua	µg/l	1.00						
Trichloroethene	< 1.00	Ua	µg/l	1.00						
Trichlorofluoromethane (Freon 11)	< 1.00	Ua	µg/l	1.00						
1,2,3-Trichloropropane	< 1.00	Ua	µg/l	1.00						
1,2,4-Trimethylbenzene	< 1.00	Ua	µg/l	1.00						
1,3,5-Trimethylbenzene	< 1.00	Ua	µg/l	1.00						
Vinyl chloride	< 1.00	Ua	µg/l	1.00						
m,p-Xylene	< 2.00	Ua	µg/l	2.00						
o-Xylene	< 1.00	Ua	µg/l	1.00						
Tetrahydrofuran	< 2.00	Ua	µg/l	2.00						
Ethyl ether	< 1.00	Ua	µg/l	1.00						
Tert-amyl methyl ether	< 1.00	Ua	µg/l	1.00						
Ethyl tert-butyl ether	< 1.00	Ua	µg/l	1.00						
Di-isopropyl ether	< 1.00	Ua	µg/l	1.00						
Tert-Butanol / butyl alcohol	< 10.0	Ua	µg/l	10.0						
1,4-Dioxane	< 20.0	Ua	µg/l	20.0						
trans-1,4-Dichloro-2-butene	< 5.00	Ua	µg/l	5.00						
Ethanol	< 200	Ua	µg/l	200						
Surrogate: 4-Bromofluorobenzene	48.2		µg/l	50.0		96		70-130		
Surrogate: Toluene-d8	49.3		µg/l	50.0		99		70-130		
Surrogate: 1,2-Dichloroethane-d4	49.9		µg/l	50.0		100		70-130		
Surrogate: Dibromofluoromethane	50.6		µg/l	50.0		101		70-130		
<u>LCS (1808754-BS1)</u>										
<u>Prepared & Analyzed: 25-Jun-18</u>										
1,1,2-Trichlorotrifluoroethane (Freon 113)	18.3		µg/l	20.0		91		70-130		
Acetone	18.8		µg/l	20.0		94		70-130		
Acrylonitrile	16.1		µg/l	20.0		81		70-130		
Benzene	18.4		µg/l	20.0		92		70-130		
Bromobenzene	22.3		µg/l	20.0		111		70-130		
Bromoform	17.2		µg/l	20.0		86		70-130		
Bromochloromethane	17.8		µg/l	20.0		89		70-130		
Bromodichloromethane	21.0		µg/l	20.0		105		70-130		
Bromomethane	17.5		µg/l	20.0		87		70-130		
2-Butanone (MEK)	18.7		µg/l	20.0		94		70-130		
n-Butylbenzene	20.2		µg/l	20.0		101		70-130		
sec-Butylbenzene	20.9		µg/l	20.0		105		70-130		
tert-Butylbenzene	22.0		µg/l	20.0		110		70-130		
Carbon disulfide	17.7		µg/l	20.0		89		70-130		
Carbon tetrachloride	17.6		µg/l	20.0		88		70-130		
Chlorobenzene	20.0		µg/l	20.0		100		70-130		
Chloroethane	17.3		µg/l	20.0		87		70-130		
Chloroform	17.4		µg/l	20.0		87		70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1808754 - SW846 5030 Water MS										
<u>LCS (1808754-BS1)</u>										
<u>Prepared & Analyzed: 25-Jun-18</u>										
Chloromethane	15.2		µg/l		20.0	76	70-130			
2-Chlorotoluene	19.2		µg/l		20.0	96	70-130			
4-Chlorotoluene	19.8		µg/l		20.0	99	70-130			
1,2-Dibromo-3-chloropropane	19.6		µg/l		20.0	98	70-130			
Dibromochloromethane	18.8		µg/l		20.0	94	70-130			
1,2-Dibromoethane (EDB)	19.2		µg/l		20.0	96	70-130			
Dibromomethane	17.8		µg/l		20.0	89	70-130			
1,2-Dichlorobenzene	21.1		µg/l		20.0	105	70-130			
1,3-Dichlorobenzene	22.8		µg/l		20.0	114	70-130			
1,4-Dichlorobenzene	19.3		µg/l		20.0	96	70-130			
Dichlorodifluoromethane (Freon12)	19.3		µg/l		20.0	96	70-130			
1,1-Dichloroethane	18.2		µg/l		20.0	91	70-130			
1,2-Dichloroethane	17.5		µg/l		20.0	88	70-130			
1,1-Dichloroethene	20.1		µg/l		20.0	101	70-130			
cis-1,2-Dichloroethene	18.0		µg/l		20.0	90	70-130			
trans-1,2-Dichloroethene	18.7		µg/l		20.0	93	70-130			
1,2-Dichloropropane	17.0		µg/l		20.0	85	70-130			
1,3-Dichloropropane	17.2		µg/l		20.0	86	70-130			
2,2-Dichloropropane	16.2		µg/l		20.0	81	70-130			
1,1-Dichloropropene	18.2		µg/l		20.0	91	70-130			
cis-1,3-Dichloropropene	17.5		µg/l		20.0	88	70-130			
trans-1,3-Dichloropropene	18.2		µg/l		20.0	91	70-130			
Ethylbenzene	20.4		µg/l		20.0	102	70-130			
Hexachlorobutadiene	23.2		µg/l		20.0	116	70-130			
2-Hexanone (MBK)	18.9		µg/l		20.0	94	70-130			
Isopropylbenzene	23.0		µg/l		20.0	115	70-130			
4-Isopropyltoluene	20.3		µg/l		20.0	101	70-130			
Methyl tert-butyl ether	19.7		µg/l		20.0	98	70-130			
4-Methyl-2-pentanone (MIBK)	17.9		µg/l		20.0	90	70-130			
Methylene chloride	17.8		µg/l		20.0	89	70-130			
Naphthalene	22.7		µg/l		20.0	114	70-130			
n-Propylbenzene	20.7		µg/l		20.0	104	70-130			
Styrene	21.3		µg/l		20.0	106	70-130			
1,1,1,2-Tetrachloroethane	21.5		µg/l		20.0	108	70-130			
1,1,2,2-Tetrachloroethane	18.9		µg/l		20.0	94	70-130			
Tetrachloroethene	19.3		µg/l		20.0	97	70-130			
Toluene	18.7		µg/l		20.0	94	70-130			
1,2,3-Trichlorobenzene	22.8		µg/l		20.0	114	70-130			
1,2,4-Trichlorobenzene	22.3		µg/l		20.0	111	70-130			
1,3,5-Trichlorobenzene	22.6		µg/l		20.0	113	70-130			
1,1,1-Trichloroethane	17.7		µg/l		20.0	88	70-130			
1,1,2-Trichloroethane	17.7		µg/l		20.0	89	70-130			
Trichloroethene	19.3		µg/l		20.0	97	70-130			
Trichlorofluoromethane (Freon 11)	19.7		µg/l		20.0	98	70-130			
1,2,3-Trichloropropane	20.5		µg/l		20.0	103	70-130			
1,2,4-Trimethylbenzene	21.3		µg/l		20.0	107	70-130			
1,3,5-Trimethylbenzene	21.1		µg/l		20.0	106	70-130			
Vinyl chloride	21.9		µg/l		20.0	109	70-130			
m,p-Xylene	20.0		µg/l		20.0	100	70-130			
o-Xylene	20.0		µg/l		20.0	100	70-130			

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1808754 - SW846 5030 Water MS										
<u>LCS (1808754-BS1)</u>										
<u>Prepared & Analyzed: 25-Jun-18</u>										
Tetrahydrofuran	15.2		µg/l		20.0	76	70-130			
Ethyl ether	17.0		µg/l		20.0	85	70-130			
Tert-amyl methyl ether	16.8		µg/l		20.0	84	70-130			
Ethyl tert-butyl ether	19.9		µg/l		20.0	100	70-130			
Di-isopropyl ether	17.8		µg/l		20.0	89	70-130			
Tert-Butanol / butyl alcohol	195		µg/l		200	97	70-130			
1,4-Dioxane	188		µg/l		200	94	70-130			
trans-1,4-Dichloro-2-butene	18.4		µg/l		20.0	92	70-130			
Ethanol	355		µg/l		400	89	70-130			
Surrogate: 4-Bromofluorobenzene	52.0		µg/l		50.0	104	70-130			
Surrogate: Toluene-d8	48.1		µg/l		50.0	96	70-130			
Surrogate: 1,2-Dichloroethane-d4	47.5		µg/l		50.0	95	70-130			
Surrogate: Dibromofluoromethane	49.3		µg/l		50.0	99	70-130			
<u>LCS Dup (1808754-BSD1)</u>										
<u>Prepared & Analyzed: 25-Jun-18</u>										
1,1,2-Trichlorotrifluoroethane (Freon 113)	16.9		µg/l		20.0	84	70-130	8	20	
Acetone	18.8		µg/l		20.0	94	70-130	0.2	20	
Acrylonitrile	16.3		µg/l		20.0	82	70-130	1	20	
Benzene	17.7		µg/l		20.0	89	70-130	4	20	
Bromobenzene	21.2		µg/l		20.0	106	70-130	5	20	
Bromoform	17.0		µg/l		20.0	85	70-130	1	20	
Bromochloromethane	17.0		µg/l		20.0	85	70-130	4	20	
Bromodichloromethane	17.0		µg/l		20.0	104	70-130	1	20	
Bromoform	20.8		µg/l		20.0	82	70-130	6	20	
Bromomethane	16.4		µg/l		20.0	89	70-130	8	20	
2-Butanone (MEK)	17.9		µg/l		20.0	94	70-130	0.2	20	
n-Butylbenzene	18.7		µg/l		20.0	95	70-130	10	20	
sec-Butylbenzene	19.0		µg/l		20.0	103	70-130	6	20	
tert-Butylbenzene	20.6		µg/l		20.0	82	70-130	8	20	
Carbon disulfide	16.3		µg/l		20.0	83	70-130	5	20	
Carbon tetrachloride	16.6		µg/l		20.0	95	70-130	7	20	
Chlorobenzene	19.0		µg/l		20.0	82	70-130	2	20	
Chloroethane	16.5		µg/l		20.0	82	70-130	7	20	
Chloroform	16.3		µg/l		20.0	71	70-130	6	20	
Chloromethane	14.3		µg/l		20.0	89	70-130	8	20	
2-Chlorotoluene	17.7		µg/l		20.0	93	70-130	7	20	
4-Chlorotoluene	18.6		µg/l		20.0	99	70-130	1	20	
1,2-Dibromo-3-chloropropane	19.9		µg/l		20.0	92	70-130	2	20	
Dibromochloromethane	18.5		µg/l		20.0	93	70-130	3	20	
1,2-Dibromoethane (EDB)	18.6		µg/l		20.0	85	70-130	4	20	
Dibromomethane	17.1		µg/l		20.0	102	70-130	4	20	
1,2-Dichlorobenzene	20.3		µg/l		20.0	109	70-130	4	20	
1,3-Dichlorobenzene	21.8		µg/l		20.0	92	70-130	5	20	
1,4-Dichlorobenzene	18.3		µg/l		20.0	87	70-130	7	20	
Dichlorodifluoromethane (Freon12)	17.4		µg/l		20.0	84	70-130	10	20	
1,1-Dichloroethane	16.9		µg/l		20.0	91	70-130	7	20	
1,2-Dichloroethane	16.8		µg/l		20.0	86	70-130	4	20	
1,1-Dichloroethene	18.1		µg/l		20.0	86	70-130	10	20	
cis-1,2-Dichloroethene	17.2		µg/l		20.0	86	70-130	5	20	
trans-1,2-Dichloroethene	17.3		µg/l		20.0	79	70-130	8	20	
1,2-Dichloropropane	15.8		µg/l		20.0	83	70-130	7	20	
1,3-Dichloropropane	16.5		µg/l		20.0			4	20	

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1808754 - SW846 5030 Water MS										
<u>LCS Dup (1808754-BSD1)</u>										
<u>Prepared & Analyzed: 25-Jun-18</u>										
2,2-Dichloropropane	15.0		µg/l		20.0	75	70-130	8	20	
1,1-Dichloropropene	17.2		µg/l		20.0	86	70-130	6	20	
cis-1,3-Dichloropropene	16.6		µg/l		20.0	83	70-130	5	20	
trans-1,3-Dichloropropene	17.6		µg/l		20.0	88	70-130	3	20	
Ethylbenzene	19.5		µg/l		20.0	97	70-130	5	20	
Hexachlorobutadiene	21.2		µg/l		20.0	106	70-130	9	20	
2-Hexanone (MBK)	18.3		µg/l		20.0	91	70-130	3	20	
Isopropylbenzene	21.7		µg/l		20.0	108	70-130	6	20	
4-Isopropyltoluene	18.5		µg/l		20.0	92	70-130	9	20	
Methyl tert-butyl ether	18.9		µg/l		20.0	95	70-130	4	20	
4-Methyl-2-pentanone (MIBK)	18.1		µg/l		20.0	91	70-130	1	20	
Methylene chloride	17.0		µg/l		20.0	85	70-130	5	20	
Naphthalene	21.5		µg/l		20.0	107	70-130	6	20	
n-Propylbenzene	19.6		µg/l		20.0	98	70-130	6	20	
Styrene	20.6		µg/l		20.0	103	70-130	3	20	
1,1,1,2-Tetrachloroethane	20.3		µg/l		20.0	101	70-130	6	20	
1,1,2,2-Tetrachloroethane	19.4		µg/l		20.0	97	70-130	3	20	
Tetrachloroethene	17.4		µg/l		20.0	87	70-130	11	20	
Toluene	16.8		µg/l		20.0	84	70-130	11	20	
1,2,3-Trichlorobenzene	21.7		µg/l		20.0	109	70-130	5	20	
1,2,4-Trichlorobenzene	21.5		µg/l		20.0	107	70-130	4	20	
1,3,5-Trichlorobenzene	21.4		µg/l		20.0	107	70-130	6	20	
1,1,1-Trichloroethane	16.2		µg/l		20.0	81	70-130	8	20	
1,1,2-Trichloroethane	16.9		µg/l		20.0	84	70-130	5	20	
Trichloroethene	17.9		µg/l		20.0	89	70-130	8	20	
Trichlorofluoromethane (Freon 11)	17.8		µg/l		20.0	89	70-130	10	20	
1,2,3-Trichloropropane	20.2		µg/l		20.0	101	70-130	1	20	
1,2,4-Trimethylbenzene	19.8		µg/l		20.0	99	70-130	7	20	
1,3,5-Trimethylbenzene	19.6		µg/l		20.0	98	70-130	8	20	
Vinyl chloride	18.2		µg/l		20.0	91	70-130	18	20	
m,p-Xylene	19.6		µg/l		20.0	98	70-130	2	20	
o-Xylene	19.4		µg/l		20.0	97	70-130	3	20	
Tetrahydrofuran	15.6		µg/l		20.0	78	70-130	2	20	
Ethyl ether	16.9		µg/l		20.0	84	70-130	0.6	20	
Tert-amyl methyl ether	15.9		µg/l		20.0	79	70-130	6	20	
Ethyl tert-butyl ether	19.1		µg/l		20.0	95	70-130	4	20	
Di-isopropyl ether	16.7		µg/l		20.0	84	70-130	6	20	
Tert-Butanol / butyl alcohol	190		µg/l		200	95	70-130	2	20	
1,4-Dioxane	189		µg/l		200	94	70-130	0.2	20	
trans-1,4-Dichloro-2-butene	18.2		µg/l		20.0	91	70-130	0.7	20	
Ethanol	361		µg/l		400	90	70-130	2	20	
Surrogate: 4-Bromofluorobenzene	52.7		µg/l		50.0	105	70-130			
Surrogate: Toluene-d8	48.1		µg/l		50.0	96	70-130			
Surrogate: 1,2-Dichloroethane-d4	47.0		µg/l		50.0	94	70-130			
Surrogate: Dibromofluoromethane	48.9		µg/l		50.0	98	70-130			

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Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 6010C</u>										
Batch 1809004 - SW846 3005A										
<u>Blank (1809004-BLK1)</u>										
Iron	< 0.125	Ua	mg/l	0.125						
<u>LCS (1809004-BS1)</u>										
Iron	1.34		mg/l	0.125	1.25	107	85-115			
<u>LCS Dup (1809004-BSD1)</u>										
Iron	1.33		mg/l	0.125	1.25	107	85-115	0.7		20

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Soluble Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 6010C</u>										
Batch 1808906 - SW846 3005A										
<u>Blank (1808906-BLK1)</u>										
Iron	< 0.250	Ua	mg/l	0.250						
<u>LCS (1808906-BS1)</u>										
Iron	2.17		mg/l	0.250	2.00		108	85-115		
<u>LCS Dup (1808906-BSD1)</u>										
Iron	2.19		mg/l	0.250	2.00		110	85-115	1	20

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General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
EPA 300.0										
Batch 1808650 - General Preparation										
<u>Blank (1808650-BLK1)</u>										
Sulfate as SO ₄	< 1.00	Ua	mg/l	1.00						
<u>LCS (1808650-BS1)</u>										
Sulfate as SO ₄	20.7		mg/l	1.00	20.0	104	90-110			
<u>Reference (1808650-SRM1)</u>										
Sulfate as SO ₄	25.4		mg/l	1.00	25.0	101	90-110			
SM5310B (00, 11)										
Batch 1809105 - General Preparation										
<u>Blank (1809105-BLK1)</u>										
Total Organic Carbon	< 1.00	Ua	mg/l	1.00						
<u>LCS (1809105-BS1)</u>										
Total Organic Carbon	13.3		mg/l	1.00	15.0	89	85-115			
<u>Reference (1809105-SRM1)</u>										
Total Organic Carbon	13.5		mg/l	1.00	15.0	90	85-115			

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Dissolved Gas Analysis - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
RSK-175										
Batch 1808994 - General Air Prep										
<u>Blank (1808994-BLK1)</u>										
<u>Prepared & Analyzed: 27-Jun-18</u>										
Methane	< 2.20	Ua	µg/l	2.20						
Ethane	< 5.00	Ua	µg/l	5.00						
Ethene	< 5.00	Ua	µg/l	5.00						
<u>LCS (1808994-BS1)</u>										
<u>Prepared & Analyzed: 27-Jun-18</u>										
Methane	465		mg/l		500	93	70-130			
Ethane	537		mg/l		500	107	70-130			
Ethene	450		mg/l		500	90	70-130			
<u>Duplicate (1808994-DUP1)</u>										
<u>Source: SC47887-01</u>										
<u>Prepared & Analyzed: 27-Jun-18</u>										
Methane	< 2.20	Ua	µg/l	2.20		BRL				30
Ethane	< 5.00	Ua	µg/l	5.00		BRL				30
Ethene	< 5.00	Ua	µg/l	5.00		BRL				30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
<u>SM4500S-D-11</u>											
Batch 436179A - 436179-SM450											
<u>BLK (CA77388-BLK)</u>						<u>Prepared & Analyzed: 26-Jun-18</u>					
Sulfide	< 0.05	U	mg/l	0.05				-			
<u>DUP (CA77388-DUP)</u>						<u>Source: CA77388</u>	<u>Prepared & Analyzed: 26-Jun-18</u>				
Sulfide	< 0.05	U	mg/l	0.05				-	NC	20	
<u>LCS (CA77388-LCS)</u>						<u>Prepared & Analyzed: 26-Jun-18</u>					
Sulfide	0.1895		mg/l	0.05	0.2		94.8	90-110		20	
<u>MS (CA77388-MS)</u>						<u>Source: CA77388</u>	<u>Prepared & Analyzed: 26-Jun-18</u>				
Sulfide	0.1869		mg/l	0.05	0.2		93.4	75-125		20	

Notes and Definitions

J	Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
U	Analyte included in the analysis, but not detected at or above the MDL, at or above the MRL.
Ua	Analyte included in the analysis, but not detected
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.



Spectrum Analytical

CHAIN OF CUSTODY RECORD

Special Handling
TAT - 7 to 10 business days
Date Needed:

Standard TAT - 7 to 10 business days

Rush TAT - Date Needed: _____

All TAT's subject to laboratory approval
Min. 24-hr notification needed for rushes

Standard TAT - 7 to 10 business days
 Rush TAT - Date Needed: _____
All TATs subject to laboratory approval.
Min. 24-hr notification needed for rushes

Report To: Mark Goldberg

Invoice To: Same

Project No.: 31401451, ○○○

4 Research Drive Ste. 204

1

Location: Sag Harbor State: NY
Sample(s): Sierra Anseeuw



Spectrum Analytical

CHAIN OF CUSTODY RECORD

Special Handling:

Standard TAT - 7 to 10 business days
 Rush TAT - Date Needed:

All TAT's subject to laboratory approval.
 Min. 24-hr notification needed for rushies
 Samples disposed after 30 days unless otherwise instructed.

Report To: Mark Goldberg

WSP

4 Research Drive Ste. 204

Shelton, CT 06484

Project Mgr:

P.O. No.:

Quote #:

F=Field Filtered

7=CH3OH

8=NaHSO4

9=Deionized Water

10=H2K2O4

11=NAClA + ZnCl2

12=

1=Na2SO3

2=HCl

3=H2SO4

4=HNO3

5=NaOH

6=Ascorbic Acid

List Preservative Code below:

QA/QC Reporting Notes:
 * additional charges may apply

MA DEP MCP/CAM Report?

 Yes No

CT DPH RCP Report?

 Yes No

CT DPH RCP Report?

 Standard No QC

DQW*

 DQW*

ASPR A*

 ASPR A*

ASPR B*

 ASPR B*

ASPR C*

 ASPR C*

ASPR D*

 ASPR D*

ASPR E*

 ASPR E*

ASPR F*

 ASPR F*

ASPR G*

 ASPR G*

ASPR H*

 ASPR H*

ASPR I*

 ASPR I*

ASPR J*

 ASPR J*

ASPR K*

 ASPR K*

ASPR L*

 ASPR L*

ASPR M*

 ASPR M*

ASPR N*

 ASPR N*

ASPR O*

 ASPR O*

ASPR P*

 ASPR P*

ASPR Q*

 ASPR Q*

ASPR R*

 ASPR R*

ASPR S*

 ASPR S*

ASPR T*

 ASPR T*

ASPR U*

 ASPR U*

ASPR V*

 ASPR V*

ASPR W*

 ASPR W*

ASPR X*

 ASPR X*

ASPR Y*

 ASPR Y*

ASPR Z*

 ASPR Z*

ASPR AA*

 ASPR AA*

ASPR BB*

 ASPR BB*

ASPR CC*

 ASPR CC*

ASPR DD*

 ASPR DD*

ASPR EE*

 ASPR EE*

ASPR FF*

 ASPR FF*

ASPR GG*

 ASPR GG*

ASPR HH*

 ASPR HH*

ASPR II*

 ASPR II*

ASPR JJ*

 ASPR JJ*

ASPR KK*

 ASPR KK*

ASPR LL*

 ASPR LL*

ASPR MM*

 ASPR MM*

ASPR NN*

 ASPR NN*

ASPR OO*

 ASPR OO*

ASPR PP*

 ASPR PP*

ASPR QQ*

 ASPR QQ*

ASPR RR*

 ASPR RR*

ASPR SS*

 ASPR SS*

ASPR TT*

 ASPR TT*

ASPR UU*

 ASPR UU*

ASPR VV*

 ASPR VV*

ASPR WW*

 ASPR WW*

ASPR XX*

 ASPR XX*

ASPR YY*

 ASPR YY*

ASPR ZZ*

 ASPR ZZ*

ASPR AA*

 ASPR AA*

ASPR BB*

 ASPR BB*

ASPR CC*

 ASPR CC*

ASPR DD*

 ASPR DD*

ASPR EE*

 ASPR EE*

ASPR FF*

 ASPR FF*

ASPR GG*

 ASPR GG*

ASPR HH*

 ASPR HH*

ASPR II*

 ASPR II*

ASPR JJ*

 ASPR JJ*

ASPR KK*

 ASPR KK*

ASPR LL*

 ASPR LL*

ASPR MM*

 ASPR MM*

ASPR NN*

 ASPR NN*

ASPR OO*

 ASPR OO*

ASPR PP*

 ASPR PP*

ASPR QQ*

 ASPR QQ*

ASPR RR*

 ASPR RR*

ASPR SS*

 ASPR SS*

ASPR TT*

 ASPR TT*

ASPR UU*

 ASPR UU*

ASPR VV*

 ASPR VV*

ASPR WW*

 ASPR WW*

ASPR XX*

 ASPR XX*

ASPR YY*

 ASPR YY*

ASPR ZZ*

 ASPR ZZ*

ASPR AA*

 ASPR AA*

ASPR BB*

 ASPR BB*

ASPR CC*

 ASPR CC*

ASPR DD*

 ASPR DD*

ASPR EE*

 ASPR EE*

ASPR FF*

 ASPR FF*

ASPR GG*

 ASPR GG*

ASPR HH*

 ASPR HH*

ASPR II*

 ASPR II*

ASPR JJ*

 ASPR JJ*

ASPR KK*

 ASPR KK*

ASPR LL*

 ASPR LL*

ASPR MM*

 ASPR MM*

ASPR NN*

 ASPR NN*

ASPR OO*

 ASPR OO*

ASPR PP*

 ASPR PP*

ASPR QQ*

 ASPR QQ*

ASPR RR*

 ASPR RR*

ASPR SS*

 ASPR SS*

ASPR TT*

 ASPR TT*

ASPR UU*

 ASPR UU*

ASPR VV*

 ASPR VV*

ASPR WW*

 ASPR WW*

ASPR XX*

 ASPR XX*

ASPR YY*

 ASPR YY*

ASPR ZZ*

 ASPR ZZ*

ASPR AA*

 ASPR AA*

ASPR BB*

 ASPR BB*

ASPR CC*

 ASPR CC*

ASPR DD*

 ASPR DD*

ASPR EE*

 ASPR EE*

ASPR FF*

 ASPR FF*

ASPR GG*

 ASPR GG*

ASPR HH*

 ASPR HH*

ASPR II*

 ASPR II*

ASPR JJ*

 ASPR JJ*

ASPR KK*

 ASPR KK*

ASPR LL*

 ASPR LL*

ASPR MM*

 ASPR MM*

ASPR NN*

 ASPR NN*

ASPR OO*

 ASPR OO*

ASPR PP*

 ASPR PP*

ASPR QQ*

 ASPR QQ*

ASPR RR*

 ASPR RR*

ASPR SS*

 ASPR SS*

ASPR TT*

 ASPR TT*

ASPR UU*

 ASPR UU*

ASPR VV*

 ASPR VV*

ASPR WW*

 ASPR WW*

ASPR XX*

 ASPR XX*

ASPR YY*

 ASPR YY*

ASPR ZZ*

 ASPR ZZ*

ASPR AA*

 ASPR AA*

ASPR BB*

 ASPR BB*

ASPR CC*

 ASPR CC*

ASPR DD*

 ASPR DD*

ASPR EE*

 ASPR EE*

ASPR FF*

 ASPR FF*

ASPR GG*

<input type="checkbox

Batch Summary

1808650

General Chemistry Parameters

1808650-BLK1
1808650-BS1
1808650-SRM1
SC47887-01 (MW-98-01A)
SC47887-02 (MW-98-04)
SC47887-03 (MW-98-05BR)

1809004-BS1

1809004-BSD1
SC47887-01 (MW-98-01A)
SC47887-02 (MW-98-04)
SC47887-03 (MW-98-05BR)

1808659

Soluble Metals by EPA 200/6000 Series Methods

SC47887-02 (MW-98-04)
SC47887-03 (MW-98-05BR)

1809105

General Chemistry Parameters

1809105-BLK1
1809105-BS1
1809105-SRM1
SC47887-01 (MW-98-01A)
SC47887-02 (MW-98-04)
SC47887-03 (MW-98-05BR)

1808718

Total Metals by EPA 200/6000 Series Methods

SC47887-01 (MW-98-01A)
SC47887-02 (MW-98-04)
SC47887-03 (MW-98-05BR)

436179A

Subcontracted Analyses

CA77388-BLK
CA77388-DUP
CA77388-LCS
CA77388-MS
SC47887-01 (MW-98-01A)
SC47887-02 (MW-98-04)
SC47887-03 (MW-98-05BR)

1808754

Volatile Organic Compounds

1808754-BLK1
1808754-BS1
1808754-BSD1
SC47887-01 (MW-98-01A)
SC47887-02 (MW-98-04)
SC47887-03 (MW-98-05BR)
SC47887-04 (Equipment Blank)
SC47887-05 (Trip Blank)

S816041

Dissolved Gas Analysis

S816041-CAL1
S816041-CAL2
S816041-CAL3
S816041-CAL4
S816041-CAL5
S816041-CAL6
S816041-CAL7
S816041-ICV1
S816041-LCV1
S816041-LCV2

1808906

Soluble Metals by EPA 6000/7000 Series Methods

1808906-BLK1
1808906-BS1
1808906-BSD1
SC47887-01 (MW-98-01A)
SC47887-02 (MW-98-04)
SC47887-03 (MW-98-05BR)

S816041-CAL5

S816041-CAL6

S816041-CAL7

S816041-ICV1

S816041-LCV1

S816041-LCV2

1808994

Dissolved Gas Analysis

1808994-BLK1
1808994-BS1
1808994-DUP1
SC47887-01 (MW-98-01A)
SC47887-02 (MW-98-04)
SC47887-03 (MW-98-05BR)

S816041-CAL5

S816041-CAL6

S816041-CAL7

S816041-ICV1

S816041-LCV1

S816041-LCV2

1809004

Total Metals by EPA 6000/7000 Series Methods

1809004-BLK1

S820051*Volatile Organic Compounds*

S820051-CAL1

S820051-CAL2

S820051-CAL3

S820051-CAL4

S820051-CAL5

S820051-CAL6

S820051-CAL7

S820051-CAL8

S820051-CAL9

S820051-ICV1

S820051-LCV1

S820051-LCV2

S820051-TUN1

S820051-TUN2

S820339*Volatile Organic Compounds*

S820339-CCV1

S820339-TUN1

S820455*Dissolved Gas Analysis*

S820455-CCV1

S820455-CCV2



Technical Report

prepared for:

WSP USA, Inc. (Shelton)
4 Research Drive, Suite 204
Shelton CT, 06484
Attention: Tunde Komuves-Sandor

Report Date: 07/10/2018

Client Project ID: 31401451.00 task 01.00
York Project (SDG) No.: 18G0083

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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132-02 89th AVENUE
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RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 07/10/2018
Client Project ID: 31401451.00 task 01.00
York Project (SDG) No.: 18G0083

WSP USA, Inc. (Shelton)
4 Research Drive, Suite 204
Shelton CT, 06484
Attention: Tunde Komuves-Sandor

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on July 03, 2018 and listed below. The project was identified as your project: **31401451.00 task 01.00**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
18G0083-01	WQ070218:1350 FRW-1	Water	07/02/2018	07/03/2018
18G0083-02	WQ070218:1355 FRW-2	Water	07/02/2018	07/03/2018
18G0083-03	WQ070218:1400 FRW-3	Water	07/02/2018	07/03/2018
18G0083-04	WQ070218:1405 FRW-4	Water	07/02/2018	07/03/2018

General Notes for York Project (SDG) No.: 18G0083

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 07/10/2018





Sample Information

Client Sample ID: WQ070218:1350 FRW-1

York Sample ID: 18G0083-01

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
18G0083	31401451.00 task 01.00	Water	July 2, 2018 1:50 pm	07/03/2018

Volatile Organics, 8260 List - Low Level

Sample Prepared by Method: EPA 5030B

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	07/06/2018 07:30	07/06/2018 19:45	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS



Sample Information

Client Sample ID: WQ070218:1350 FRW-1

York Sample ID: 18G0083-01

York Project (SDG) No.

18G0083

Client Project ID

31401451.00 task 01.00

Matrix

Water

Collection Date/Time

July 2, 2018 1:50 pm

Date Received

07/03/2018

Volatile Organics, 8260 List - Low Level

Sample Prepared by Method: EPA 5030B

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
156-59-2	cis-1,2-Dichloroethylene	0.60		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS



Sample Information

Client Sample ID: WQ070218:1350 FRW-1

York Sample ID: 18G0083-01

York Project (SDG) No.

18G0083

Client Project ID

31401451.00 task 01.00

Matrix

Water

Collection Date/Time

July 2, 2018 1:50 pm

Date Received

07/03/2018

Volatile Organics, 8260 List - Low Level

Sample Prepared by Method: EPA 5030B

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
127-18-4	Tetrachloroethylene	22		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
79-01-6	Trichloroethylene	0.66		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 19:45	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	07/06/2018 07:30	07/06/2018 19:45	SS

Surrogate Recoveries

Result

Acceptance Range

17060-07-0	Surrogate: 1,2-Dichloroethane-d4	97.6 %	69-130
2037-26-5	Surrogate: Toluene-d8	92.7 %	81-117
460-00-4	Surrogate: p-Bromofluorobenzene	99.6 %	79-122

Nitrate as N

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: WQ070218:1350 FRW-1

York Sample ID: 18G0083-01

York Project (SDG) No.

18G0083

Client Project ID
31401451.00 task 01.00

Matrix

Water

Collection Date/Time

July 2, 2018 1:50 pm

Date Received

07/03/2018

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	0.870		mg/L	0.0500	1	EPA 300.0 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/03/2018 20:16	07/03/2018 20:16	AD

Nitrite as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-65-0	Nitrite as N	ND		mg/L	0.0500	1	EPA 300.0 Certifications: NELAC-NY10854,CTDOH,PADEP	07/03/2018 20:16	07/03/2018 20:16	AD

Sample Information

Client Sample ID: WQ070218:1355 FRW-2

York Sample ID: 18G0083-02

York Project (SDG) No.

18G0083

Client Project ID
31401451.00 task 01.00

Matrix

Water

Collection Date/Time

July 2, 2018 1:55 pm

Date Received

07/03/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	07/06/2018 07:30	07/06/2018 20:17	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS



Sample Information

Client Sample ID: WQ070218:1355 FRW-2

York Sample ID: 18G0083-02

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
18G0083	31401451.00 task 01.00	Water	July 2, 2018 1:55 pm	07/03/2018

Volatile Organics, 8260 List - Low Level

Sample Prepared by Method: EPA 5030B

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS



Sample Information

Client Sample ID: WQ070218:1355 FRW-2

York Sample ID: 18G0083-02

York Project (SDG) No.

18G0083

Client Project ID

31401451.00 task 01.00

Matrix

Water

Collection Date/Time

July 2, 2018 1:55 pm

Date Received

07/03/2018

Volatile Organics, 8260 List - Low Level

Sample Prepared by Method: EPA 5030B

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
127-18-4	Tetrachloroethylene	3.8		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS



Sample Information

<u>Client Sample ID:</u> WQ070218:1355 FRW-2	<u>York Sample ID:</u> 18G0083-02			
<u>York Project (SDG) No.</u> 18G0083	<u>Client Project ID</u> 31401451.00 task 01.00	<u>Matrix</u> Water	<u>Collection Date/Time</u> July 2, 2018 1:55 pm	<u>Date Received</u> 07/03/2018

Volatile Organics, 8260 List - Low Level

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS		
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS		
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS		
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:17	SS		
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	07/06/2018 07:30	07/06/2018 20:17	SS		
Surrogate Recoveries		Result	Acceptance Range										
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	98.0 %			69-130								
2037-26-5	Surrogate: Toluene-d8	92.5 %			81-117								
460-00-4	Surrogate: p-Bromofluorobenzene	98.2 %			79-122								

Nitrate as N

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	0.0820		mg/L	0.0500	1	EPA 300.0 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/03/2018 20:34	07/03/2018 20:34	AD

Nitrite as N

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-65-0	Nitrite as N	ND		mg/L	0.0500	1	EPA 300.0 Certifications: NELAC-NY10854,CTDOH,PADEP	07/03/2018 20:34	07/03/2018 20:34	AD

Sample Information

<u>Client Sample ID:</u> WQ070218:1400 FRW-3	<u>York Sample ID:</u> 18G0083-03			
<u>York Project (SDG) No.</u> 18G0083	<u>Client Project ID</u> 31401451.00 task 01.00	<u>Matrix</u> Water	<u>Collection Date/Time</u> July 2, 2018 2:00 pm	<u>Date Received</u> 07/03/2018

Volatile Organics, 8260 List - Low Level

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120 RESEARCH DRIVE	STRATFORD, CT 06615		■		132-02 89th AVENUE				RICHMOND HILL, NY 11418		
www.YORKLAB.com	(203) 325-1371				FAX (203) 357-0166				ClientServices@	Page 10 of 28	



Sample Information

Client Sample ID: WQ070218:1400 FRW-3

York Sample ID: 18G0083-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G0083	31401451.00 task 01.00	Water	July 2, 2018 2:00 pm	07/03/2018

Volatile Organics, 8260 List - Low Level

Sample Prepared by Method: EPA 5030B

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	07/06/2018 07:30	07/06/2018 20:48	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS



Sample Information

Client Sample ID: WQ070218:1400 FRW-3

York Sample ID: 18G0083-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G0083	31401451.00 task 01.00	Water	July 2, 2018 2:00 pm	07/03/2018

Volatile Organics, 8260 List - Low Level

Sample Prepared by Method: EPA 5030B

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
156-59-2	cis-1,2-Dichloroethylene	1.4		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS



Sample Information

Client Sample ID: WQ070218:1400 FRW-3

York Sample ID: 18G0083-03

York Project (SDG) No.
18G0083

Client Project ID
31401451.00 task 01.00

Matrix
Water

Collection Date/Time
July 2, 2018 2:00 pm

Date Received
07/03/2018

Volatile Organics, 8260 List - Low Level

Sample Prepared by Method: EPA 5030B

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
127-18-4	Tetrachloroethylene	49		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
79-01-6	Trichloroethylene	1.4		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 20:48	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	07/06/2018 07:30	07/06/2018 20:48	SS

Surrogate Recoveries	Result	Acceptance Range
17060-07-0 Surrogate: 1,2-Dichloroethane-d4	98.2 %	69-130
2037-26-5 Surrogate: Toluene-d8	92.9 %	81-117
460-00-4 Surrogate: p-Bromofluorobenzene	104 %	79-122

Nitrate as N

Sample Prepared by Method: EPA 300

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120 RESEARCH DRIVE	STRATFORD, CT 06615		■		132-02 89th AVENUE			RICHMOND HILL, NY 11418		
www.YORKLAB.com	(203) 325-1371				FAX (203) 357-0166			ClientServices@	Page 13 of 28	



Sample Information

Client Sample ID: WQ070218:1400 FRW-3

York Sample ID: 18G0083-03

York Project (SDG) No.

18G0083

Client Project ID

31401451.00 task 01.00

Matrix

Water

Collection Date/Time

July 2, 2018 2:00 pm

Date Received

07/03/2018

Nitrate as N

Sample Prepared by Method: EPA 300

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	1.02		mg/L	0.0500	1	EPA 300.0 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/03/2018 20:52	07/03/2018 20:52	AD

Nitrite as N

Sample Prepared by Method: EPA 300

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-65-0	Nitrite as N	ND		mg/L	0.0500	1	EPA 300.0 Certifications: NELAC-NY10854,CTDOH,PADEP	07/03/2018 20:52	07/03/2018 20:52	AD

Sample Information

Client Sample ID: WQ070218:1405 FRW-4

York Sample ID: 18G0083-04

York Project (SDG) No.

18G0083

Client Project ID

31401451.00 task 01.00

Matrix

Water

Collection Date/Time

July 2, 2018 2:05 pm

Date Received

07/03/2018

Volatile Organics, 8260 List - Low Level

Sample Prepared by Method: EPA 5030B

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	07/06/2018 07:30	07/06/2018 21:20	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS



Sample Information

Client Sample ID: WQ070218:1405 FRW-4

York Sample ID:

18G0083-04

York Project (SDG) No.

18G0083

Client Project ID

31401451.00 task 01.00

Matrix

Water

Collection Date/Time

July 2, 2018 2:05 pm

Date Received

07/03/2018

Volatile Organics, 8260 List - Low Level

Sample Prepared by Method: EPA 5030B

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS



Sample Information

Client Sample ID: WQ070218:1405 FRW-4

York Sample ID:

18G0083-04

York Project (SDG) No.

18G0083

Client Project ID

31401451.00 task 01.00

Matrix

Water

Collection Date/Time

July 2, 2018 2:05 pm

Date Received

07/03/2018

Volatile Organics, 8260 List - Low Level

Sample Prepared by Method: EPA 5030B

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 07:30	07/06/2018 21:20	SS



Sample Information

Client Sample ID: WQ070218:1405 FRW-4

York Sample ID: 18G0083-04

York Project (SDG) No.
18G0083

Client Project ID
31401451.00 task 01.00

Matrix
Water

Collection Date/Time
July 2, 2018 2:05 pm

Date Received
07/03/2018

Volatile Organics, 8260 List - Low Level

Sample Prepared by Method: EPA 5030B

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	1.7		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 21:20	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 21:20	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 21:20	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 21:20	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 21:20	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 21:20	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 21:20	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	07/06/2018 07:30	07/06/2018 21:20	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP		
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	99.4 %	69-130								
2037-26-5	Surrogate: Toluene-d8	92.7 %	81-117								
460-00-4	Surrogate: p-Bromofluorobenzene	101 %	79-122								



Analytical Batch Summary

Batch ID: BG80217

Preparation Method: EPA 300

Prepared By: AD

YORK Sample ID	Client Sample ID	Preparation Date
18G0083-01	WQ070218:1350 FRW-1	07/03/18
18G0083-02	WQ070218:1355 FRW-2	07/03/18
18G0083-03	WQ070218:1400 FRW-3	07/03/18
BG80217-BLK1	Blank	07/03/18
BG80217-BS1	LCS	07/03/18

Batch ID: BG80246

Preparation Method: EPA 5030B

Prepared By: TAB

YORK Sample ID	Client Sample ID	Preparation Date
18G0083-01	WQ070218:1350 FRW-1	07/06/18
18G0083-02	WQ070218:1355 FRW-2	07/06/18
18G0083-03	WQ070218:1400 FRW-3	07/06/18
18G0083-04	WQ070218:1405 FRW-4	07/06/18
BG80246-BLK1	Blank	07/06/18
BG80246-BS1	LCS	07/06/18
BG80246-BSD1	LCS Dup	07/06/18



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD RPD	RPD Limit	Flag
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Batch BG80246 - EPA 5030B

Blank (BG80246-BLK1)

Prepared & Analyzed: 07/06/2018

1,1,1,2-Tetrachloroethane	ND	0.50	ug/L
1,1,1-Trichloroethane	ND	0.50	"
1,1,2,2-Tetrachloroethane	ND	0.50	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"
1,1,2-Trichloroethane	ND	0.50	"
1,1-Dichloroethane	ND	0.50	"
1,1-Dichloroethylene	ND	0.50	"
1,1-Dichloropropylene	ND	0.50	"
1,2,3-Trichlorobenzene	ND	0.50	"
1,2,3-Trichloropropane	ND	0.50	"
1,2,4-Trichlorobenzene	ND	0.50	"
1,2,4-Trimethylbenzene	ND	0.50	"
1,2-Dibromo-3-chloropropane	ND	0.50	"
1,2-Dibromoethane	ND	0.50	"
1,2-Dichlorobenzene	ND	0.50	"
1,2-Dichloroethane	ND	0.50	"
1,2-Dichloropropane	ND	0.50	"
1,3,5-Trimethylbenzene	ND	0.50	"
1,3-Dichlorobenzene	ND	0.50	"
1,3-Dichloropropane	ND	0.50	"
1,4-Dichlorobenzene	ND	0.50	"
2,2-Dichloropropane	ND	0.50	"
2-Chlorotoluene	ND	0.50	"
2-Hexanone	ND	0.50	"
4-Chlorotoluene	ND	0.50	"
Acetone	ND	2.0	"
Benzene	ND	0.50	"
Bromobenzene	ND	0.50	"
Bromochloromethane	ND	0.50	"
Bromodichloromethane	ND	0.50	"
Bromoform	ND	0.50	"
Bromomethane	ND	0.50	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	0.50	"
Chloroethane	ND	0.50	"
Chloroform	ND	0.50	"
Chloromethane	ND	0.50	"
cis-1,2-Dichloroethylene	ND	0.50	"
cis-1,3-Dichloropropylene	ND	0.50	"
Dibromochloromethane	ND	0.50	"
Dibromomethane	ND	0.50	"
Dichlorodifluoromethane	ND	0.50	"
Ethyl Benzene	ND	0.50	"
Hexachlorobutadiene	ND	0.50	"
Isopropylbenzene	ND	0.50	"
Methyl tert-butyl ether (MTBE)	ND	0.50	"
Methylene chloride	ND	2.0	"
Naphthalene	ND	2.0	"
n-Butylbenzene	ND	0.50	"
n-Propylbenzene	ND	0.50	"



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG80246 - EPA 5030B

Blank (BG80246-BLK1)

											Prepared & Analyzed: 07/06/2018
o-Xylene	ND	0.50	ug/L								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	10.5		"	10.0		105	69-130				
<i>Surrogate: Toluene-d8</i>	9.64		"	10.0		96.4	81-117				
<i>Surrogate: p-Bromofluorobenzene</i>	9.87		"	10.0		98.7	79-122				

LCS (BG80246-BS1)

											Prepared & Analyzed: 07/06/2018
1,1,1,2-Tetrachloroethane	10.4		ug/L	10.0		104	82-126				
1,1,1-Trichloroethane	11.1		"	10.0		111	78-136				
1,1,2,2-Tetrachloroethane	10.1		"	10.0		101	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.6		"	10.0		116	54-165				
1,1,2-Trichloroethane	10.8		"	10.0		108	82-123				
1,1-Dichloroethane	10.9		"	10.0		109	82-129				
1,1-Dichloroethylene	10.4		"	10.0		104	68-138				
1,1-Dichloropropylene	10.8		"	10.0		108	83-133				
1,2,3-Trichlorobenzene	10.2		"	10.0		102	76-136				
1,2,3-Trichloropropane	10.3		"	10.0		103	77-128				
1,2,4-Trichlorobenzene	9.45		"	10.0		94.5	76-137				
1,2,4-Trimethylbenzene	9.51		"	10.0		95.1	82-132				
1,2-Dibromo-3-chloropropane	10.1		"	10.0		101	45-147				
1,2-Dibromoethane	10.8		"	10.0		108	83-124				
1,2-Dichlorobenzene	9.57		"	10.0		95.7	79-123				
1,2-Dichloroethane	11.5		"	10.0		115	73-132				
1,2-Dichloropropane	9.92		"	10.0		99.2	78-126				
1,3,5-Trimethylbenzene	9.42		"	10.0		94.2	80-131				
1,3-Dichlorobenzene	9.65		"	10.0		96.5	86-122				
1,3-Dichloropropane	10.6		"	10.0		106	81-125				
1,4-Dichlorobenzene	9.43		"	10.0		94.3	85-124				
2,2-Dichloropropane	10.8		"	10.0		108	56-150				
2-Chlorotoluene	9.54		"	10.0		95.4	79-130				
2-Hexanone	11.2		"	10.0		112	51-146				
4-Chlorotoluene	9.53		"	10.0		95.3	79-128				
Acetone	13.7		"	10.0		137	14-150				
Benzene	11.0		"	10.0		110	85-126				
Bromobenzene	9.43		"	10.0		94.3	78-129				
Bromochloromethane	11.3		"	10.0		113	77-128				
Bromodichloromethane	10.2		"	10.0		102	79-128				
Bromoform	10.5		"	10.0		105	78-133				
Bromomethane	4.27		"	10.0		42.7	43-168	Low Bias			



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD RPD	RPD Limit	Flag
Batch BG80246 - EPA 5030B											
LCS (BG80246-BS1)											
Prepared & Analyzed: 07/06/2018											
Carbon tetrachloride	11.0		ug/L	10.0	110		77-141				
Chlorobenzene	10.2		"	10.0	102		88-120				
Chloroethane	10.4		"	10.0	104		65-136				
Chloroform	11.2		"	10.0	112		82-128				
Chloromethane	7.87		"	10.0	78.7		43-155				
cis-1,2-Dichloroethylene	11.0		"	10.0	110		83-129				
cis-1,3-Dichloropropylene	10.0		"	10.0	100		80-131				
Dibromochloromethane	10.6		"	10.0	106		80-130				
Dibromomethane	10.6		"	10.0	106		72-134				
Dichlorodifluoromethane	9.21		"	10.0	92.1		44-144				
Ethyl Benzene	10.2		"	10.0	102		80-131				
Hexachlorobutadiene	8.13		"	10.0	81.3		67-146				
Isopropylbenzene	9.38		"	10.0	93.8		76-140				
Methyl tert-butyl ether (MTBE)	11.6		"	10.0	116		76-135				
Methylene chloride	8.50		"	10.0	85.0		55-137				
Naphthalene	10.6		"	10.0	106		70-147				
n-Butylbenzene	9.15		"	10.0	91.5		79-132				
n-Propylbenzene	9.48		"	10.0	94.8		78-133				
o-Xylene	10.3		"	10.0	103		78-130				
p- & m- Xylenes	19.0		"	20.0	94.8		77-133				
p-Isopropyltoluene	9.34		"	10.0	93.4		81-136				
sec-Butylbenzene	9.38		"	10.0	93.8		79-137				
Styrene	10.4		"	10.0	104		67-132				
tert-Butylbenzene	9.37		"	10.0	93.7		77-138				
Tetrachloroethylene	10.5		"	10.0	105		82-131				
Toluene	10.0		"	10.0	100		80-127				
trans-1,2-Dichloroethylene	10.6		"	10.0	106		80-132				
trans-1,3-Dichloropropylene	9.92		"	10.0	99.2		78-131				
Trichloroethylene	9.69		"	10.0	96.9		82-128				
Trichlorofluoromethane	10.9		"	10.0	109		67-139				
Vinyl Chloride	10.1		"	10.0	101		58-145				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	10.4		"	10.0	104		69-130				
<i>Surrogate: Toluene-d8</i>	9.61		"	10.0	96.1		81-117				
<i>Surrogate: p-Bromofluorobenzene</i>	9.44		"	10.0	94.4		79-122				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG80246 - EPA 5030B

LCS Dup (BG80246-BSD1)	Prepared & Analyzed: 07/06/2018									
1,1,1,2-Tetrachloroethane	10.4		ug/L	10.0	104	82-126			0.673	30
1,1,1-Trichloroethane	10.5		"	10.0	105	78-136			4.91	30
1,1,2,2-Tetrachloroethane	9.79		"	10.0	97.9	76-129			3.02	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.0		"	10.0	110	54-165			5.59	30
1,1,2-Trichloroethane	10.5		"	10.0	105	82-123			3.19	30
1,1-Dichloroethane	10.5		"	10.0	105	82-129			3.65	30
1,1-Dichloroethylene	9.93		"	10.0	99.3	68-138			4.33	30
1,1-Dichloropropylene	10.4		"	10.0	104	83-133			4.14	30
1,2,3-Trichlorobenzene	9.60		"	10.0	96.0	76-136			6.06	30
1,2,3-Trichloropropane	9.75		"	10.0	97.5	77-128			5.78	30
1,2,4-Trichlorobenzene	9.13		"	10.0	91.3	76-137			3.44	30
1,2,4-Trimethylbenzene	9.20		"	10.0	92.0	82-132			3.31	30
1,2-Dibromo-3-chloropropane	9.59		"	10.0	95.9	45-147			5.38	30
1,2-Dibromoethane	10.4		"	10.0	104	83-124			3.87	30
1,2-Dichlorobenzene	9.28		"	10.0	92.8	79-123			3.08	30
1,2-Dichloroethane	11.0		"	10.0	110	73-132			4.10	30
1,2-Dichloropropane	9.70		"	10.0	97.0	78-126			2.24	30
1,3,5-Trimethylbenzene	9.12		"	10.0	91.2	80-131			3.24	30
1,3-Dichlorobenzene	9.31		"	10.0	93.1	86-122			3.59	30
1,3-Dichloropropane	10.2		"	10.0	102	81-125			3.77	30
1,4-Dichlorobenzene	9.20		"	10.0	92.0	85-124			2.47	30
2,2-Dichloropropane	10.3		"	10.0	103	56-150			4.75	30
2-Chlorotoluene	9.20		"	10.0	92.0	79-130			3.63	30
2-Hexanone	11.0		"	10.0	110	51-146			1.89	30
4-Chlorotoluene	9.32		"	10.0	93.2	79-128			2.23	30
Acetone	16.2		"	10.0	162	14-150	High Bias		16.9	30
Benzene	10.6		"	10.0	106	85-126			2.87	30
Bromobenzene	9.07		"	10.0	90.7	78-129			3.89	30
Bromochloromethane	11.1		"	10.0	111	77-128			2.41	30
Bromodichloromethane	10.1		"	10.0	101	79-128			1.18	30
Bromoform	10.4		"	10.0	104	78-133			1.53	30
Bromomethane	4.72		"	10.0	47.2	43-168			10.0	30
Carbon tetrachloride	10.4		"	10.0	104	77-141			5.22	30
Chlorobenzene	10.2		"	10.0	102	88-120			0.293	30
Chloroethane	10.0		"	10.0	100	65-136			3.82	30
Chloroform	10.9		"	10.0	109	82-128			2.71	30
Chloromethane	7.91		"	10.0	79.1	43-155			0.507	30
cis-1,2-Dichloroethylene	10.7		"	10.0	107	83-129			2.75	30
cis-1,3-Dichloropropylene	9.72		"	10.0	97.2	80-131			2.94	30
Dibromochloromethane	10.3		"	10.0	103	80-130			2.68	30
Dibromomethane	10.3		"	10.0	103	72-134			3.26	30
Dichlorodifluoromethane	8.85		"	10.0	88.5	44-144			3.99	30
Ethyl Benzene	9.94		"	10.0	99.4	80-131			2.68	30
Hexachlorobutadiene	7.77		"	10.0	77.7	67-146			4.53	30
Isopropylbenzene	9.19		"	10.0	91.9	76-140			2.05	30
Methyl tert-butyl ether (MTBE)	11.2		"	10.0	112	76-135			3.08	30
Methylene chloride	8.28		"	10.0	82.8	55-137			2.62	30
Naphthalene	9.93		"	10.0	99.3	70-147			6.81	30
n-Butylbenzene	8.72		"	10.0	87.2	79-132			4.81	30
n-Propylbenzene	9.17		"	10.0	91.7	78-133			3.32	30
o-Xylene	10.1		"	10.0	101	78-130			1.76	30



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG80246 - EPA 5030B

LCS Dup (BG80246-BSD1)	Prepared & Analyzed: 07/06/2018										
p- & m- Xylenes	18.5		ug/L	20.0	92.4	77-133			2.51	30	
p-Isopropyltoluene	8.91		"	10.0	89.1	81-136			4.71	30	
sec-Butylbenzene	8.93		"	10.0	89.3	79-137			4.92	30	
Styrene	10.3		"	10.0	103	67-132			1.45	30	
tert-Butylbenzene	9.04		"	10.0	90.4	77-138			3.59	30	
Tetrachloroethylene	10.5		"	10.0	105	82-131			0.0954	30	
Toluene	9.77		"	10.0	97.7	80-127			2.53	30	
trans-1,2-Dichloroethylene	10.3		"	10.0	103	80-132			2.97	30	
trans-1,3-Dichloropropylene	9.74		"	10.0	97.4	78-131			1.83	30	
Trichloroethylene	9.75		"	10.0	97.5	82-128			0.617	30	
Trichlorofluoromethane	10.6		"	10.0	106	67-139			3.17	30	
Vinyl Chloride	9.80		"	10.0	98.0	58-145			3.21	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	10.2		"	10.0	102	69-130					
<i>Surrogate: Toluene-d8</i>	9.62		"	10.0	96.2	81-117					
<i>Surrogate: p-Bromofluorobenzene</i>	9.31		"	10.0	93.1	79-122					



Anions by Ion Chromatography - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD RPD	RPD Limit	RPD Flag
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Batch BG80217 - EPA 300

Blank (BG80217-BLK1)

Nitrate as N	ND	0.0500	mg/L
Nitrite as N	ND	0.0500	"

Prepared & Analyzed: 07/03/2018

LCS (BG80217-BS1)

Nitrate as N	9.90	0.0500	mg/L	10.0	99.0	90-110
Nitrite as N	10.2	0.0500	"	10.0	102	90-110

Prepared & Analyzed: 07/03/2018



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
18G0083-01	WQ070218:1350 FRW-1	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18G0083-02	WQ070218:1355 FRW-2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18G0083-03	WQ070218:1400 FRW-3	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18G0083-04	WQ070218:1405 FRW-4	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



Sample and Data Qualifiers Relating to This Work Order

QL-02 This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

CCV-E The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

Definitions and Other Explanations

* Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.

ND NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)

RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.

LOQ LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence . This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.

LOD LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.

MDL METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.

Reported to This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.

NR Not reported

RPD Relative Percent Difference

Wet The data has been reported on an as-received (wet weight) basis

Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

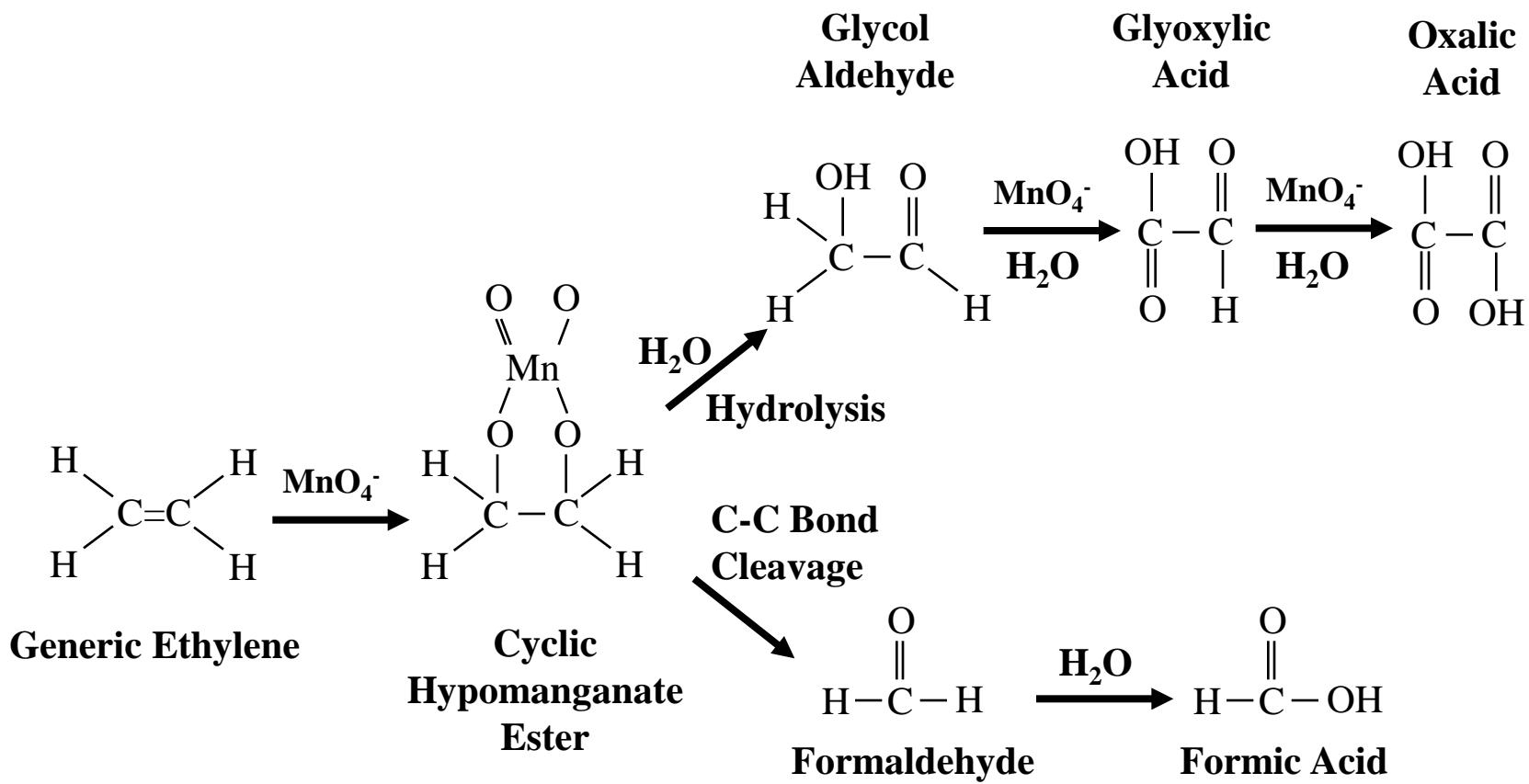
Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.



For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

APPENDIX

IV. DIAGRAM OF PERMANGANATE METABOLIC PATHWAYS



Reference: Yan & Schwartz (1999)

Permanganate Oxidation Pathway for Ethylenes

