



ATLANTIC ENVIRONMENTAL SOLUTIONS, INC

REMEDIAL INVESTIGATION REPORT

**BCP Site C241219
27-10 49th Avenue,
Long Island City, New York**

Prepared For:

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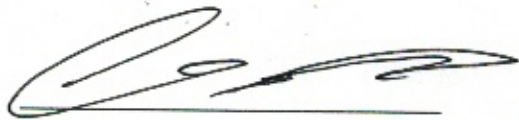
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January 2019

CERTIFICATION

I, Craig Puerta, certify that I am currently a Registered Professional Engineer as defined in 6 NYCRR Part 375 and that this Remedial Investigation Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the Division of Environmental Remediation (DER) Technical Guidance for Site Investigation and Remediation (DER-140).

In order to address full compliance with New York State Education Laws, all engineering work is performed by CPEngineering, P.C., under direct contract to Hunters Point SG, LLC. CPEngineering, P.C. is a fully licensed engineering firm in New York State.



Craig Puerta, PE

1/7/19



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1.0 INTRODUCTION

This Remedial Investigation Report (RIR) has been prepared on behalf of Hunters Point SG LLC (the “Volunteer”) for the property known as 27-10 49th Avenue in Long Island City, New York (the “site”). Hunters Point SG LLC entered the Brownfield Cleanup Program (BCP) as a volunteer as defined in ECL 27-14 (1)(b) on November 30, 2018.

The objective of this RIR is to further investigate and characterize the nature and extent of environmental impacts on the site and to provide additional information to evaluate remedial actions, as required. This RIR was developed in general accordance with the process identified in the New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation (DER)-10 Technical Guidance for Site Investigation and Remediation (May 2010).

2.0 SITE BACKGROUND

2.1 Site Description

The Site is located in the Long Island City section of Queens, New York and is identified as Block 113 and Lot 35 on the New York City Tax Map. Please refer to Figure 1 for a Site location map and Figure 2 for a Tax Map. The Site is 38,300-square feet. The Site is developed with one (1) two-story office and warehouse building, formerly operated by Black Bear Lubricants Inc. and Carey Limousine, and an associated parking lot. The subject property is currently vacant, Black Bear Lubricants vacated the first floor in December 2017 and Carey Limousine vacated the second floor office area in June 2018. The site is bound to the north by 49th Avenue followed by commercial properties. It is bound to the west by 27th Street followed by a warehouse space operated by UPS. It is bound to the south by commercial properties. It is bound to the east by Dutch Kills Creek. The site is listed in the NYSDEC Petroleum Bulk Storage (PBS) database under PBS Site No. 2-452335.

2.2 Surrounding Property Use

The site is bound to the north by 49th Avenue followed by a commercial warehouse operated by Mana Products, a cosmetics manufacturer. It is bound to the west by 27th Street followed by a warehouse space operated by UPS. It is bound to the south by a warehouse building operated by Leadstone, USA, a quartz manufacturing company and a commercial building of unknown use. It is bound to the east by Dutch Kills Creek. Figure 2 shows the surrounding land usage.

Land use within a half mile of the site is mostly commercial and industrial. The nearest ecological receptor is the Dutch Kills, which is located adjacent to the site to the east. Sensitive receptors, as defined by DER-10, located with a half mile of the site are identified below. There are no sensitive receptors within 500 feet of the site.

Number	Name (Approximate distance from site)	Address
1	High School of Applied Communication (1,500 feet)	30-20 Thomson Ave, Long Island City, NY 11101
2	PS 078	4809 Center Blvd, Long Island



	(2,000 feet)	City, NY 11109
3	LaGuardia Community College (2,000 feet)	31-10 Thomson Ave, Long Island City, NY 11101
4	LaGuardia International High School (2,554 feet)	45-35 Van Dam St, Long Island City, NY 11101

2.3 Site Physical Conditions

2.3.1 Topography, Geology and Hydrogeology

According to the 2013 United State Geological Survey (USGS) Brooklyn, NY 7.5 Minute Series Topographic Quadrangle Map, The site is at an elevation of about 14 feet above mean sea level. The property is generally flat and slopes gently to the east towards the Dutch Kills.

According to the United States Geological Survey (USGS), the area is underlain by the Harrison Gneiss, a biotite-hornblende-quartz-plagioclase gneiss with accessory garnet and sphene. The formation is known to be up to 4,000 feet thick in places. The surficial geology of the area is comprised mainly of glacial till of varying texture. The till layer varies in thickness from 3-150 feet. The nearest body of water is the Dutch Kills Creek, located adjacent to the east of the subject property. The Dutch Kills Creek flows into the Newtown Creek approximately 0.25 miles to the south of the subject property.

The shallow soils at the site are classified by the U.S. Department of Agriculture Soil Conservation Service as urban land. The soil surface textures include silt loam, loamy sand, sandy loam, and fine sandy loam. Deeper soils consist of stratified sandy loams, and gravels underlain by metamorphic rock. Soils on the site consisted of approximately 9 feet of fill material containing brick, concrete, fly ash, slag, fine silty sands, clay, and fine gravels. Native material consisting of fine to medium sands with some silt was observed at depths greater than 9 feet below ground surface (bgs).

Groundwater has been observed at depths of 9-13 feet at the subject property.

2.3.2 Wetlands

According to the National Wetlands Inventory and the NYSDEC regulated wetlands map, wetlands are not located on the site. The Dutch Kills is located immediately adjacent to the site towards the east.

2.4 Summary of Previous Environmental Investigations

The following investigations were conducted at the site:

Site Investigation – MTS EnviroSurv – January 1990

Level 2 Environmental Site Assessment – ATC Associates Inc. – March 2003

Phase I Environmental Site Assessment – Atlantic Environmental Solutions, Inc. - November 2017

Remedial Investigation Report – Atlantic Environmental Solutions, Inc. – April 2018

Copies of these reports were submitted to NYSDEC as Appendix A of the RIWP approved on October 23, 2018. A summary of the report findings is presented below.



2.4.1 Site Investigation – MTS EnviroSurv – January 1990

The investigation identified that materials with a potential for contaminating the site, including motor fuels, engine lubricants, and heating oil were stored on the subject property. The investigation identified that motor fuel and heating oil were stored in USTs, including five (5) 4,000-gallon gasoline USTs. Asbestos Containing Material (ACM) was also found to exist in the building in the form of thermal insulation and acoustic ceiling tiles.

MTS conducted a soil vapor analysis and collected samples of both soils and groundwater from the areas surrounding the underground tanks and gasoline pumps and tested for heavy metals.

The results of the testing did not reveal the presence of soil or groundwater contamination as a result of the site operations.

2.4.2 Level 2 Environmental Site Assessment – ATC Associates Inc. – March 2003

A prior “Level 1 ESA”, which was not available for review by AESI, identified the following areas of concern (AOCs) on the subject property:

AOC-1: Five (5) 4,000-gallon gasoline USTs and associated piping

AOC-2: Interior oil/water separator, floor drains, and catch basins

AOC-3: One (1) active 7,500-gallon UST

AOC-4: Exterior truck scale, oil/water separator, and concrete pad

AOC-5: Possible additional USTs

AOC-6 Historic Fill Material

ATC performed a geophysical survey as well as subsurface investigation consisting of sixteen (16) soil borings and six (6) “hydropunch” temporary well points. The results of the geophysical survey were inconclusive due to the poor quality of site fill material. The soil borings were advanced in the areas of the above listed AOCs. One (1) soil sample was collected from each of the sixteen (16) boring locations. One (1) groundwater sample was collected from each of the temporary well points. All samples were analyzed for VOCs and SVOCs. Two (2) soil samples were analyzed for polychlorinated biphenols (PCBs) and metals.

Laboratory results indicated that no VOCs were detected in any of the soil samples above the applicable NYSDEC SCOs. SVOCs were detected in six (6) of the soil samples. SVOCs detected were consistent with historic fill material.

One (1) groundwater sample, collected in the area of the gasoline tanks, contained benzene at a concentration of 5.6 ppb, slightly above the NYSDEC standards. Due to the limited extent of this benzene concentration, ATC concluded that the benzene did not represent an environmental concern for the site.

2.4.3 Phase I Environmental Site Assessment – Atlantic Environmental Solutions, Inc. - November 2017

A site inspection was completed at the property on October 3, 2017 by Seamus Kelly and Leah DeEgidio of Atlantic Environmental Solutions, Inc. (AESI). The following was identified:

Black Bear Lubricants stores, mixes, and packages engine oils, hydraulic oils, gear lubricant, transmission oils, grease, and industrial lubricants on the property. Staining was observed in some areas of the warehouse floor and indications of petroleum products were observed in floor drains in the warehouse area.



One (1) UST fill port and associated vent pipe was observed in the sidewalk of the subject property in front of the parking lot entrance. Based on prior reports, this UST is likely the 7,500-gallon #2 fuel oil UST.

Two (2) loading bays were observed during AESI's site investigation. Floor drains were present in the area of the loading bays and staining was visible in the area of the drains. AESI opened the floor drains and identified what appeared to be petroleum product within several of the drains.

An oil water separator pit was observed within the Black Bear Lubricants space, adjacent to the boiler room.

Dutch Kills Creek lies adjacent directly to the east of the subject property.

Three (3) dumpsters were observed within a gated area of the parking lot on the subject property during the site inspection.

One (1) boiler room was identified within the building on the subject property. No staining or other signs of discharge were identified within the boiler area. According to on-site representatives, the boiler is currently run exclusively on natural gas; however, the connections to the 7,500-gallon UST appeared to still exist, and it appeared that fuel oil was still present in the lines.

Compressors were observed within the Black Bear Lubricants space during the site inspection. Surficial staining was observed in the vicinity of one of the compressors. The floor appeared to be in good condition and it is unlikely that the staining has impacted the underlying soil.

Two (2) hydraulic scales were observed within the warehouse area. One (1) of the scales is currently in use and one (1) is no longer in operation. Staining was not observed in the area of the scales.

As a result of the Phase I, AESI identified the following Areas of Concern (AOCs) at the subject property:

The AOCs identified for this site include:

AOC 1 – Underground Storage Tanks

Seven (7) underground storage tanks (USTs) have been identified in relation to the subject property: Five (5) 4,000-gallon gasoline USTs, one (1) 7,500-gallon heating oil UST, and one (1) 550-gallon waste oil UST. The gasoline USTs were removed in 1990, the heating oil UST was abandoned in place in 2005, and the waste oil UST was abandoned in place in 2009.

AOC 2 – Oil/Water Separators

Two (2) oil/water separators, one interior and one exterior, and associated floor drains. Inspection of the floor drains identified petroleum product with an odor typical of hydraulic oil. Staining was also visible on the floor in the area of the floor drains.

AOC 3 – Hydraulic Equipment

Three (3) in-ground hydraulic lifts, one (1) hydraulic elevator, one (1) pallet scale, and one (1) out-of-service truck scale.

AESI's Phase 1 Report, dated November 2017, is presented in Appendix A. A map showing areas of concern is presented in Figure 3.



2.4.4 Remedial Investigation Report – Atlantic Environmental Solutions, Inc. -

AESI, on the behalf of Hunter's Point SG, LLC, performed the following scope of work:

- Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
- Completed a Ground Penetrating Radar (GPR) survey of the property;
- Installed forty-five (45) soil borings across the entire project Site, and collected fifty- six (56) soil samples for chemical analysis from the soil borings to evaluate soil quality;
- Installed three (3) permanent groundwater monitoring wells and four (4) temporary well points throughout the Site to establish groundwater flow and collected seven (7) groundwater samples for chemical analysis to evaluate groundwater quality;
- Installed three (3) soil vapor probes around within the site building and collected three (3) samples for chemical analysis;
- Collected four (4) ambient air samples, three (3) inside the building and one (1) outdoor sample, for chemical analysis.
- Cleaned oil/water separator and floor drain system and performed video inspection of the system.

Summary of Remedial Investigation

A GPR survey of the property was completed on October 19, 2017. The survey identified an area potentially consistent with a UST that had been filled and abandoned in the known location of the 7,500-gallon fuel oil UST. No other anomalies consistent with USTs were identified during the survey.

Drilling and Soil Logging

AESI was on-site on October 23 and 24, 2017 to complete a subsurface investigation of the identified AOCs. During this investigation, AESI installed a total of twenty (20) soil borings (SB-1 through SB-20) in the areas of the identified AOCs.

Borings SB-1 through SB-4 were installed in the area of the 7,500-gallon heating oil UST. SB-5, SB-6, and SB-20 were installed in the area of the exterior oil/water separator and waste oil UST located in the southwest corner of the parking lot. SB-7 through SB-9 were installed in the area of the former gasoline USTs. SB-11, SB-12, SB-13, and SB-19 were installed in the areas of the interior floor drains and trenches. SB-14, SB-15, SB-16, SB-17, SB- 18, and SB-19 were installed in the areas of interior oil/water separator, hydraulic lifts, and scales. SB-10 was installed adjacent to the property boundary to the east.

The borings were advanced to depths ranging from 12 to 16 feet bgs. Soils were field screened through the use of a photoionization detector (PID) and one (1) sample was collected from each boring at the interval of the highest observable impact. If no impacts were observed, samples were collected from the interval just above the observable water table. Samples were collected at depths ranging from 7.5 to 16 feet bgs. Petroleum odors and light staining were observed in boring SB-2 at 15.5-16.0 feet bgs and SB-15 at 8.0-12.0 feet bgs.

AESI returned to the site on November 10, 2017 in order to further investigate and delineate impacts identified during the initial soil investigation. Five (5) additional soil borings were installed to delineate impacts observed in borings SB-2, SB-7, SB-14, and SB-15. Borings SB-21 and SB-22 were installed to delineate impacts identified in boring SB-15. SB-23 was installed to further delineate impacts identified in boring SB-14. SB-24 and SB-25 were installed to further delineate impacts identified in SB-2 and SB-7.



The borings were installed to a depth of 12 feet bgs. One sample was collected from each boring at the interval of greatest observable impact. If no impacts were observed, samples were collected at the interval of the prior sample being delineated. Slight staining and petroleum odor, along with elevated PID readings, were observed in boring SB-21 at a depth of 10-12 feet bgs.

AESI returned to the site on December 8, 2017 with Lorco Petroleum to pump out floor drains and the interior oil water separator on-site. Representatives of the current property owner had confirmed that the exterior oil water separator and associated drains had been sealed. After the drains and separator were pumped out, they were video inspected to determine the path of the drains and if there was any damage to the drains which might have resulted in discharge to the subsurface. Two (2) floor drains, located in the central area of the building, were determined to lead directly to the interior oil/water separator. Two (2) other drains, one located at the east of the building and one located at the west of the building, appeared to be compromised. Soil was encountered within each of the drains indicating that the drain pipes had failed.

In order to evaluate the compromised drains AESI performed additional investigation activities on December 13, 2017. Five (5) soil borings were installed in the area of the eastern drain (SB-26 - SB-30) and five (5) borings were advanced in the area of the western drain (SB- 31A - SB-35A). No observable indications of subsurface contamination were identified during the investigation.

AESI returned to the site on December 18 and 20, 2017 to delineate TCE and PCE impacts identified in the borings SB-26 through SB-30. A total of ten (10) borings, SB-31 through SB-40 were installed. At least two (2) samples were collected from each boring. A shallow sample was collected from each boring at a depth of 2.0-2.5 feet bgs. A deep sample was also collected at a depth of 8.0-8.5 feet in every boring except SB-38. In SB-38 the deep sample was collected at 12 feet bgs in order to vertically delineate the impact identified in SB-30. In boring SB-32, a third sample was collected at 12 feet bgs to vertically delineate identified impacts.

Boring logs were submitted to NYSDEC as Appendix B of the RIWP approved on October 23, 2018. A map showing the location of soil borings and monitor wells is shown in Figure 4 and 5.

Groundwater Monitoring Well Construction

AESI returned to the site to install three (3) permanent monitoring wells, MW-1, MW-2, and MW-3, to further investigate groundwater on the subject property. All three (3) wells were 2- inch diameter wells installed to a depth of 20 feet bgs with a screen interval of 5-20 ft bgs. MW- 1 was installed in the location of boring/temporary well point SB-15, adjacent to the oil water separator. MW-2 was installed in the location of boring/temporary well point SB-2, outside the eastern wall of the building. MW-3 was installed in the assumed down-gradient direction in the parking lot on the eastern portion of the site. Monitor well locations are shown in Figure 5. In addition to the three (3) permanent monitoring wells, four (4) temporary well points were installed, in borings SB-2, SB-15, SB-38, and SB-9.

Survey

The location and elevation of groundwater monitoring wells was surveyed by a New York State licensed surveyor. The survey was performed relative to the NAVD88 datum and elevations were surveyed to the nearest 0.01 feet.

The location of each soil boring was recorded by measuring soil boring locations off of permanent points on the subject property. GPS coordinates of soil borings were acquired from georeferenced drawings produced from these measurements.



Water Level Measurement

Each monitoring well was gauged with an interface probe to record depth to groundwater to the nearest 0.01 feet. Water level data is included in Table 3.

Sample Collection and Analysis

Sampling performed as part of the field investigation was conducted for all Areas of Concern and also considered other means for bias of sampling based on professional judgment, area history, discolored soil, stressed vegetation, drainage patterns, field instrument measurements, odor, or other field indicators. All media including soil, groundwater and soil vapor have been sampled and evaluated in the RIR. Discrete (grab) samples have been used for final delineation of the nature and extent of contamination and to determine the impact of contaminants on public health and the environment. The sampling performed to date, along with the proposed sampling presented in this RIWP provides sufficient basis for evaluation of remedial action alternatives, establishment of a qualitative human health exposure assessment, and selection of a final remedy.

Soil Sampling

Soil samples were visually classified and field screened using a PID to assess potential impacts from VOCs and for health and safety monitoring. Soil samples collected for analysis of VOCs were collected using Terra Core® sampling equipment. For analysis of non-volatile parameters, samples were homogenized and placed into glass jars. Decontamination procedures were used for all non-dedicated sampling equipment. After collection, all sample jars were capped and securely tightened, and placed in iced coolers and maintained at 4°C ±2°C until they were transferred to the laboratory for analysis. All samples were transferred to the laboratory under a chain-of-custody provided as part of the laboratory deliverable package.

Fifty-six (56) soil samples were collected for chemical analysis during this RI. Soil borings SB-1 through SB-30 and SB-31A through SB-35A were collected for due diligence purposes and only one (1) soil sample was collected from each boring, at either the interval of highest observable contamination or the interval directly above the observable water table if no contamination was observed. Each of these samples was analyzed for VOCs and SVOCs. Samples SB-5, SB-6, SB-11, SB-12, SB-13, SB-15, and SB-19 were also analyzed for PCBs.

In borings SB-31 through SB-40, two (2) soil samples were collected from each boring. A shallow sample was collected from the 2.0-2.5 feet bgs interval of each boring. A deeper sample was collected from either the interval of highest observable contamination or the interval directly above the observable water table if no contamination was observed. Each of these samples was analyzed for VOCs, SVOCs, PCBs, pesticides, and TAL metals.

Data on soil sample collection for chemical analyses, including dates of collection and sample depths, is reported in Table 1. Figure 4 shows the location of samples collected in this investigation. Laboratories and analytical methods are shown below.

Groundwater Sampling

Samples collected for analysis of VOCs were collected using HCl preserved vials. For analysis of non-volatile parameters, samples were homogenized and placed into amber glass jars. Decontamination procedures were used for all non-dedicated sampling equipment. After collection, all sample jars were capped and securely tightened, and placed in iced coolers and maintained at 4°C ±2°C until they were transferred to the laboratory for analysis. All samples were transferred to the laboratory under a chain-of-custody provided as part of the laboratory deliverable package. One (1) field blank and one (1) trip blank sample were collected for laboratory QA/QC purposes.



Seven (7) groundwater samples were collected for chemical analysis during this RI. All groundwater were analyzed for VOCs and SVOCs. Samples collected from the permanent monitoring wells were also analyzed for PCBs. Samples collected from the Sampling logs with information on purging and sampling of groundwater monitor wells were submitted to NYSDEC as Appendix C of the RIWP approved on October 23, 2018. Figure 5 shows the location of monitoring wells. Laboratories and analytical methods are shown below.

Soil Vapor Sampling

Three (3) soil vapor sampling points were installed throughout the site with a hammer drill. Each sampling point consisted of a new, dedicated, stainless steel screen implant connected to polyethylene tubing extending to the target depth of 3 feet bgs.

Three (3) soil vapor probes were installed and three (3) soil vapor samples were collected for chemical analysis during this RI. Soil vapor sampling locations are shown in Figure 10. Methodologies used for soil vapor assessment conform to the NYS DOH Final Guidance on Soil Vapor Intrusion, as updated in May 2017.

Ambient Air Sampling

Four (4) ambient air samples were collected in 6L Suma Canisters over a period of 24 hours. Ambient air samples were analyzed TO-15. Ambient air sampling locations are shown in Figure 11.

Results of Chemical Analyses

Laboratory data for soil, groundwater, soil vapor, and ambient air are summarized in Table 1, 2, 4, and 5, respectively. Laboratory data deliverables for all samples evaluated in this RIR were submitted to NYSDEC as Appendix D of the RIWP approved on October 23, 2018.

Soil Chemistry

Soil/fill samples collected during the RI were compared to NYSDEC Track 1 Unrestricted Use Soil Cleanup Objectives (SCOs) and Track 2 Restricted Residential Use SCOs as presented in 6NYCRR Part 375-6.8. No PCBs were detected above Unrestricted Use SCOs in any of the soil samples. VOCs including acetone (max. of 0.337 mg/kg), 2-butanone (max. of 0.389 mg/kg), benzene (max. of 0.065 mg/kg), trichloroethene (max. of 0.956 mg/kg), tetrachloroethene (max. of 61.6 mg/kg), and total xylenes (max. of 0.767 mg/kg) were detected above Unrestricted Use SCOs. Of these compounds, tetrachloroethene was also detected above Restricted Residential Use SCOs. SVOCs including benzo(a)anthracene (max. of 41.2 mg/kg), benzo(b)fluoranthene (25.7 mg/kg), benzo(k)fluoranthene (max. of 20.8 mg/kg), benzo(a)pyrene (max. of 26.1 mg/kg), chrysene (max. of 36.8 mg/kg), dibenz(a,h)anthracene (max. of 5.63 mg/kg), and indeno(1,2,3-cd)pyrene (max. of 14.1 mg/kg) were detected above Restricted Residential Use SCOs. Pesticides including 4,4-DDD (max. of 0.030 mg/kg), 4,4'-DDE (max. of 0.100 mg/kg), and 4,4'-DDT (max. of 0.201 mg/kg) were detected above Unrestricted Use SCOs. Metals including arsenic (max. of 78.4 mg/kg), barium (max. of 1,310 mg/kg), copper (max. of 322 mg/kg), lead (max. of 3,850 mg/kg), mercury (max. of 1.59 mg/kg), nickel (max. of 95.2 mg/kg), and zinc (max. of 2,290 mg/kg) were detected above Unrestricted Use SCOs. Of these compounds, barium, copper, lead, and mercury were also detected above Restricted Residential Use SCOs.

The chlorinated solvent PCE was identified above the Restricted Residential Use SCO in the samples collected from SB-26, SB-29, and SB-30, which were installed in the area of the eastern interior floor drain. This area of elevated PCE is horizontally delineated to the north by borings SB-24 and SB-32; to the west by boring SB-37; to the south



by SB-33 and SB-36; and to the east by boring SB-31. It is vertically delineated by the deep sample collected in boring SB-38, collected at a depth of 11.5-12.0 feet bgs. PCE was either not detected or detected below the Restricted Residential SCOs in each of these delineation samples.

Petroleum product was observed in boring SB-15 in the area of the oil/water separator at a depth of 12.0 feet bgs. This area of free product is delineated to the west by boring SB-21; to the south by SB-22; and to the east by SB-14. The area directly to the east of SB-15 was inaccessible.

Data collected during the RI is sufficient to delineate the vertical and horizontal distribution of contaminants in soil/fill at the Site. A summary table of data for chemical analyses performed on soil samples is included in Table 1. Figures 6a, 6b, and 6c show the location and results for soil/fill that exceed the 6NYCRR Part 375-6.8 Track 1 Soil Cleanup Objectives.

Groundwater Chemistry

Groundwater samples collected during the RI were compared to NYSDEC 6NYCRR 703.5 Groundwater Quality Standards (GQS). No PCBs were detected above their GQS in the groundwater samples. One VOC, isopropylbenzene (at 26.1 µg/L), was detected above its GQS. SVOCs including anthracene (max. of 305 µg/L), benzo(a)anthracene (max. of 218 µg/L), benzo(b)fluoranthene (max. of 40.7 µg/L), benzo(k)fluoranthene (max. of 48.1 µg/L), bis(2-ethylhexyl)phthalate (at 11.4 µg/L), chrysene (max. of 123 µg/L), fluoranthene (max. of 652 µg/L), fluorine (max. of 272 µg/L), indeno(1,2,3-cd)pyrene (max. of 24.4 µg/L), phenanthrene (max. of 1,010 µg/L), and pyrene (max. of 721 µg/L) were detected above their respective GQS. Temporary well points installed as part of the investigation did identify slightly elevated concentrations of CVOCs, however, it is likely that these results are biased high due to the turbidity of the samples.

PCE was detected above its GQS in the samples collected from the temporary well points installed in borings SB-2, SB-38, and SB-39. It was identified in SB-2 at a concentration of 2.48 µg/L; SB-15 at a concentration of 26.1 µg/L; SB-38 at a concentration of 3.88 µg/L; and in SB-39 at a concentration of 1.56 µg/L. Isopropylbenzene was detected in the sample collected from the temporary well point installed in boring SB-15 at a concentration of 26.1 µg/L. The samples collected from the permanent wells did not identify any compounds at concentrations above the AWQS.

Data collected during the RI is sufficient to show that no volatile impact to site groundwater has occurred. A summary table of data for chemical analyses performed on groundwater samples is included in Table 2. Figure 7 shows the location and results for the groundwater samples.

Soil Vapor Chemistry

Soil vapor samples collected during the RI were compared to the compounds listed in Table 3.1 of the Air Guideline Values derived by the NYSDOH located in the NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion as updated in 2017. Soil vapor results indicated low levels of petroleum-related compounds and low to high levels of chlorinated VOCs (CVOCs) in each of the soil vapor samples. Total concentrations of petroleum-related VOCs (BTEX) ranged from 3.56 µg/m³ to 191 µg/m³. CVOCs including 1,1,1-trichloroethane (at 33 µg/m³), carbon tetrachloride (max. of 0.38 µg/m³), methylene chloride (max. of 19 µg/m³), tetrachloroethene (ranging from 8.3 µg/m³ to 1,100 µg/m³), and trichloroethene (ranging from 0.38 µg/m³ to 120 µg/m³) were detected during the RI. Vinyl chloride was not detected in any of the soil vapor samples.



Data collected during the RI is sufficient to delineate the distribution of contaminants in soil vapor at the Site. A summary table of data for chemical analyses performed on soil vapor samples is included in Table 4. Figure 10 shows the soil vapor sampling locations.

2.4.5 SUPPLEMENTAL REMEDIAL INVESTIGATION

Following completion of the initial Remedial Investigation AESI returned to the site to perform supplemental soil, groundwater and soil vapor investigation activities in the parking lot and additional soil and soil vapor investigation activities in the building.

Six (6) additional soil borings were advanced throughout the eastern portion of the parking lot, and one temporary well point was installed.

Borings SB-42 and SB-43, temporary well point TW4, and borings SB-53 through SB-55 were installed in the parking lot to determine if contamination was migrating from the site toward the Dutch Kills on the eastern property boundary. Two additional soil vapor probes were installed in the parking lot and samples SV-4 and SB-5 were collected. Three confirmation soil vapor samples, SV-1A, SV-2A & SV-3A were also collected inside the building.

Eight (8) additional soil borings, SB-44 through SB-51 were advanced inside the building to further delineate PCE contamination identified in the soil in the vicinity of the eastern drain. Nineteen (19) soil samples were collected for analysis of VOCs.

The borings were advanced to depths ranging from 8 to 12 feet bgs. Soils were field screened through the use of a photoionization detector (PID). One sample was collected from each boring in the parking lot, and at least two samples were collected from each of the interior borings. Soil sample locations are shown on Figure 4.

Soil Sampling

Soil samples were visually classified and field screened using a PID to assess potential impacts from VOCs and for health and safety monitoring. Soil samples collected for analysis of VOCs were collected using Terra Core® sampling equipment. For analysis of non-volatile parameters, samples were homogenized and placed into glass jars. Decontamination procedures were used for all non-dedicated sampling equipment. After collection, all sample jars were capped and securely tightened, and placed in iced coolers and maintained at 4°C ±2°C until they were transferred to the laboratory for analysis. All samples were transferred to the laboratory under a chain-of-custody provided as part of the laboratory deliverable package.

Samples collected from SB42 & SB43 were analyzed for VOCs, SVOCs, PCBs, pesticides, and TAL metals. Samples from SB-44 through SB-51 were analyzed for VOCs only. Samples SB-52 through SB-55 were analyzed for VOCs and lead.

Data on soil sample collection for chemical analyses, including dates of collection and sample depths, is reported in Table 1. Figure 4 shows the location of samples collected in this investigation. Laboratories and analytical methods are shown below.

Groundwater Sampling

Samples collected for analysis of VOCs were collected using HCL preserved vials. For analysis of non-volatile parameters, samples were homogenized and placed into amber glass jars. Decontamination procedures were used for all non-dedicated sampling equipment. After collection, all sample jars were capped and securely tightened, and



placed in iced coolers and maintained at 4°C ±2°C until they were transferred to the laboratory for analysis. All samples were transferred to the laboratory under a chain-of-custody provided as part of the laboratory deliverable package. One (1) field blank and one (1) trip blank sample were collected for laboratory QA/QC purposes.

One (1) groundwater sample was collected for chemical analysis during this supplemental RI. All groundwater were analyzed for VOCs, SVOCs, Pesticides, PCBs and metals. Figure 5 shows the groundwater sampling location. Results from the groundwater sample are shown in Table 2.

Soil Vapor Sampling

Two (2) soil vapor sampling points were installed in the parking lot and three (3) soil vapor sampling points were installed within the building. Each sampling point consisted of a new, dedicated, stainless steel screen implant connected to polyethylene tubing extending to the target depth of 3 feet bgs. Figure 10 shows the vapor sampling locations.

Methodologies used for soil vapor assessment conform to the NYS DOH Final Guidance on Soil Vapor Intrusion, as updated in 2017.

Results of Chemical Analyses

Laboratory data for soil, groundwater, soil vapor are summarized in Table 1, 2 and 4, respectively. Laboratory data deliverables for all samples evaluated in this supplemental RIR were submitted to NYSDEC as Appendix E of the RIWP approved on October 23, 2018.

Soil Chemistry

Soil/fill samples collected during the RI were compared to NYSDEC Track 1 Unrestricted Use Soil Cleanup Objectives (SCOs) and Track 2 Restricted Residential Use SCOs as presented in 6NYCRR Part 375-6.8. No PCBs were detected above Unrestricted Use SCOs in any of the soil samples. VOCs were not detected in excess of the SCOs in any of the soil samples collected in the parking lot. PCE was detected in only two of the interior soil samples SB-45a (39 mg/kg) and SB-50a (21 mg/kg). Acetone (0.064 mg/kg) and 1,4-Dioxane (0.11 mg/kg) were detected in SB-50C in excess of the unrestricted use SCO. In soil samples SB-42a and SB-43a SVOCs including benzo(a)anthracene (max. of 2.89 mg/kg), benzo(b)fluoranthene (2.17 mg/kg), benzo(k)fluoranthene (max. of 2.15 mg/kg), benzo(a)pyrene (max. of 2.47 mg/kg), chrysene (max. of 2.6 mg/kg), dibenzo(a,h)anthracene (max. of 0.545 mg/kg), and indeno(1,2,3-cd)pyrene (max. of 1.44 mg/kg) were detected above Unrestricted Residential Use SCOs. Pesticides were not detected in excess of the SCOs in SB-42 and SB-43. Also in SB-42 and SB-43 metals including arsenic (max. of 1,410 mg/kg), copper (max. of 229 mg/kg), lead (max. of 3,630 mg/kg), mercury (max. of 1.31 mg/kg), nickel (max. of 48.4 mg/kg), and zinc (max. of 1,730 mg/kg) were detected above Unrestricted Use SCOs. Of these compounds, arsenic, lead and mercury were also detected above Restricted Residential Use SCOs.

A summary table of data for chemical analyses performed on soil samples is included in Table 1. Figures 6a, 6b, and 6c show the location and results that exceed the 6NYCRR Part 375-6.8 Track 1 Soil Cleanup Objectives.

Groundwater Chemistry

One (1) groundwater sample was collected from the temporary well point, TW-4 during the supplemental RI and were compared to NYSDEC 6NYCRR 703.5 Groundwater Quality Standards (GQS). PCBs (0.972 µg/l) were detected above their GQS in the groundwater sample. VOCs including PCE (7.4 µg/l), 1,2,3-trichloropropane (0.2



µg/l) 1,2-Dibromo-3-chloropropane (0.2 µg/l) and 1,2-Dibromoethane (0.2 µg/l) were also detected in the temporary well point TW-4.

SVOCs including benzo(a)anthracene (max. of 0.706 µg/L), benzo(b)fluoranthene (max. of 1.62 µg/L), benzo(a)pyrene (1.29 µg/L), benzo(k)fluoranthene (max. of 1.28 µg/L), chrysene (max. of 0.882 µg/L), indeno(1,2,3-cd)pyrene (max. of 0.824 µg/L), hexachlorobutadiene (0.588 µg/L) were detected above their respective GQS.

A summary table of data for chemical analyses performed on groundwater samples is included in Table 2.

Soil Vapor Chemistry

Soil vapor samples collected during the RI were compared to the compounds listed in Table 3.1 of the Air Guideline Values derived by the NYSDOH located in the NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion dated as updated in May 2017. Soil vapor results indicated levels of chlorinated VOCs (CVOCs) in each of the soil vapor samples. CVOCs including tetrachloroethene (ranging from 1,300 µg/m³ to 42,000 µg/m³), and trichloroethene (ranging from 85 µg/m³ to 4,200 µg/m³) were detected during the supplemental RI. Results from soil vapor samples collected from samples SV-1a through SV-3a, collected inside the building, were several orders of magnitude lower than results from SV-4 and SV-5 collected from the parking lot.

Based on the results of the investigation activities conducted at the site to date, chlorinated VOC contamination has been identified in site soils. Contamination consistent with historic fill material has been identified below the building and parking lot. Permanent monitoring wells on site have not identified elevated concentrations of CVOCs, but slightly elevated results have been identified in temporary well points. Soil vapor samples collected from below the parking lot have identified elevated concentrations of PCE several orders of magnitude higher than levels observed in samples collected from below the building.

2.4.6 Brownfield Cleanup Program

Following completion of the initial investigation work Hunters Point SG LLC entered into the New York City Mayors Office of Environmental Remediation (OER) Voluntary Cleanup Program. AESI submitted the Remedial Investigation Report and a Remedial Action Workplan (RAWP) to OER recommending removal of contaminated soil beneath the building floor and installation of a sub slab depressurization system (SSDS) to mitigate soil vapor intrusion into the building. OER provided the data generated during the Remedial Investigation to the NYSDEC for evaluation. Due to the proximity of the site to the Dutch Kills and Newtown Creek, NYSDEC felt that the site would be a good candidate for the Brownfield Cleanup Program (BCP), but that additional investigation would be necessary to further delineate the site and address data gaps.

AESI submitted a draft Remedial Investigation Workplan (RIWP) to the NYSDEC case manager, Charles Post, on June 7, 2018. On July 10, 2018, Hunters Point SG, LLC submitted an application to enter into the BCP as a Volunteer.

NYSDEC provided comments on the draft RIWP on July 31, 2018 and a revised work plan was submitted for approval on August 28, 2018. The RIWP was approved by the case manager on October 23, 2018. The site was also accepted into the BCP on October 23, 2018.



3.0 REMEDIAL INVESTIGATION ACTIVITIES – OCTOBER-NOVEMBER 2018

From October 29, 2018 through November 28, 2018, AESI performed additional remedial investigation activities as required by the NYSDEC. Investigation activities were performed as outlined in the Remedial Investigation Work Plan (RIWP) approved by the NYSDEC case manager, Charles Post, in October, 2018.

3.1 Soil Gas Investigation

AESI performed an investigation of soil gas across the site. In order to reduce the time and expense of collecting the vapor samples, the testing was performed using a modified testing protocol as outlined below. The modified approach was approved by NYSDEC and NYSDOH, and following review of the results, confirmatory samples were collected in Summa Canisters per the NYSDOH Guidance for Evaluating Vapor Intrusion. Samples were submitted to a New York certified laboratory for analysis via TO+15 as described in Section 3.4.2.

3.1.1 Sub-Slab Soil Gas Sampling

Sixty (60) sub-slab soil gas testing points were installed in a grid pattern throughout the site and were identified as A1 through A15, B1 through B15, C1 through C15 and D1 through D15. Temporary sub-slab soil gas probes were installed by drilling a ¼ inch OD hole with a concrete drill. A length of 1/8 inch nylon tubing (~ 2 feet) were inserted into the hole and grouted with bentonite and capped with ~0.5 inches of VOC-free modeling clay. Sub-Slab soil gas points shown in Figure 9.

Once the sub-slab soil gas testing points were installed, a 50 cc gas-tight glass syringe was connected to the probe tubing and approximately 50 cc of soil gas was purged. After purging, 40 cc of soil gas was withdrawn for analysis.

3.1.2 Analytical Methodology

Vapor samples were analyzed using a modified version of EPA Method TO-14. The primary modification was that only four (4) analytes were measured for in this program. The instrument utilized was laboratory-grade gas chromatograph equipped with a photoionization detector (PID) and an electron capture detector (ECD) to achieve low reporting levels.

3.1.3 Operating Conditions and Instrumentation

Instrument: SRI 8610.

Column3: 30 meter M624, 0.56mm x 3.0u, megabore capillary.

Carrier flow: Nitrogen at 12 ml/min.

Detectors: Electron Capture Detector (ECD) & Photoionization (PID).

Column ovens: Isothermal at 75 degrees.

The instrument consisted of a gas sampling valve and two independent chromatography systems. Each system had an injection port for syringe injections, analytical column, and a detector. The PID was on one system and the ECD on the other. Samples were injected by syringe injection.

3.1.4 Standard Preparation

Primary (stock) standards: Certified vapor standards purchased from certified suppliers. Concentration: 1000 ppbv. Only one stock standard was used to make the working standards. This standard was verified by analysis by a different laboratory via TO-15.



Secondary (working) Standards: Made by diluting primary standard into tedlar bags with clean air or nitrogen. Typical calibration concentrations were 5 ppbv to 100 ppbv on the ECD and 100 ppbv to 1000 ppbv on the PID.

3.1.5 Initial Multi-Point Calibration Curve

The initial calibration curve of a minimum of 3 points per detector is performed:

- At the start of the project.
- When the GC column or operating conditions changed
- When the daily mid-point calibration check did not meet the requirements as specified below.

Calibration curves for each target component were prepared by analyzing low, mid, and high calibration standards covering the expected concentration range. The lowest standard concentration was at the reporting limit for each compound.

A linearity check of the calibration curve for each compound on each detector was performed by computing an average response factor. If a percent relative standard deviation (%RSD) of + 30% was obtained, an average response factor was used over the entire calibration range. If the linearity criteria were not obtained, quantitation for that analyte was performed using a calibration curve (point to point calibration).

3.1.6 Continuing Calibration (Daily Mid-point Calibration Check)

Continuing calibration standards prepared from a traceable source were analyzed at the beginning of each day and the end of each day. Acceptable continuing calibration agreement was set at + 30% to the average response.

3.1.7 Detection Limits

Reporting limits for this program were:

- Cis & trans dichloroethylene (1,2 DCE) 500 ppbv
- Trichloroethylene (TCE) 50 ppbv
- Tetrachloroethylene (PCE) 50 ppbv

3.1.8 Injection of Soil Gas Samples & Calibration Standards

Approximately a 1 cc sample loop volume was injected into the PID and the ECD using a gas-sampling valve.

3.1.9 Compound Identification and Quantification

All compounds detected in the soil gas samples were identified by chromatographic retention time and quantified using the average response factor from the active calibration curve. The analytical configuration provided the required compound separation. Since both the ECD and PID respond to the two target analytes, concentration detections exceeding the PID's detection limit (~250 ppbv) were confirmed by the second detector.



3.1.10 Laboratory Data Logs

The field chemist maintained injection and sample analysis records including date and time of analysis, sampler's name, chemist's name, sample ID number, concentrations of compounds detected, calibration data, and any unusual conditions. Please refer to Appendix C for a copy of the laboratory data logs.

3.1.11 Equipment Blanks

An equipment blank sample was performed at the start of the field program by drawing clean air through the sampling equipment and analyzing. This sample verified all components of the sampling system were free of contamination.

3.1.12 Analysis Method Blanks

Analysis blanks were performed by flushing clean air or nitrogen using the syringe through the gas sampling valve and injection of the loop volume into the instrument. These blanks verify all components of the analytical method were free of contamination. Method blanks were analyzed often as appropriate depending upon the measured concentrations, but at a minimum 1 every 20 samples.

3.1.13 Duplicate Samples

Duplicate (repetitive) analysis of a sample was performed when inconsistent data was observed, but at least one every 10 samples. Acceptable agreement was +/-50%.

3.1.14 Mobile Lab Results

Analytical results were used to map the exceedances of the soil gas standards in order to delineate a source area present on site. AESI identified eight (8) hot-spots throughout the subject property and proposed confirmation samples in these locations. In general, higher concentrations were observed along the 49th Avenue side of the property, with a significant decrease to the south across the property. Figure 9 shows the soil gas points and grid results.

3.2 Soil Gas Confirmation Samples

Following completion of the investigation with the mobile laboratory, AESI provided with analytical results and proposed confirmation sample locations to the NYSDEC case manager Charles Post and Arunesh Ghosh of the New York State Department of Health (NYSDOH). On November 2, 2018, case manager Charles Post approved the proposed confirmation sample locations.

Eight (8) confirmation samples identified as A10, B6, B12, B14, C3, C5, C11 and D1 were collected using Summa Canisters. Samples B6, C3, C5 and D1 were collected within the building of the subject property. Samples A10, B12, B14 and C11 were collected in the exterior of the subject property. Soil gas vapor probes were installed through the existing concrete floor and sealed in place. The probes were purged of three (3) volumes of air and a tracer gas (e.g. helium) was applied to confirm that the probe location was sealed and there was no vapor communication with the indoor air. A laboratory prepared Summa Canister was connected to the probe and the sample were collected over a two (2) hour period. The samples were transported under strict chain of custody to a New York certified laboratory for analysis of TO+15. One (1) field blank and one (1) trip blank sample were collected for laboratory QA/QC purposes.



Methodologies used for soil vapor assessment conform to the NYS DOH Final Guidance on Soil Vapor Intrusion, as updated in 2017.

3.2.1 Soil Gas Chemistry

Soil gas samples were analyzed by York Labs, a New York State certified laboratory. Soil gas samples collected during the RI were compared to the compounds listed in Table 3.1 of the Air Guideline Values (AGV) derived by the NYSDOH located in the NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion dated as updated in May 2017.

Soil vapor results indicated levels of chlorinated VOCs (CVOCs) in most of the soil vapor samples.

PCE was detected in all soil gas samples (with the exception of C11) at concentrations ranging from 740 ug/m³ to 22,000 ug/m³, exceeding the AGV.

TCE was detected in all soil gas samples (with the exception of C11) at concentrations ranging from 11 ug/m³ to 5,900 ug/m³, exceeding the AGV.

Results from soil vapor samples collected from inside the building, were several orders of magnitude lower than results from collected from the exterior of the subject property.

A summary table of data for chemical analyses performed on soil gas samples is included in Table 4. Figure 10 shows the location and results for soil gas samples that exceed the Air Guideline Values (AGV) derived by the NYSDOH located in the NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion dated as updated in May 2017.

3.3 Ambient Air Samples

Three (3) ambient air samples identified as B2, B4 and C7 were collected within the building in 6L Suma Canisters over a period of 24 hours. One (1) sample identified as AA was collected from the exterior of the property.

The samples were transported under strict chain of custody to a New York certified laboratory for analysis of TO+15. One (1) field blank and one (1) trip blank sample were collected for laboratory QA/QC purposes.

Methodologies used for air ambient assessment conform to the NYS DOH Final Guidance on Soil Vapor Intrusion, as updated in 2017.

3.3.1 Ambient Air Chemistry

Ambient Air samples were analyzed by York Labs, a New York State certified laboratory. Ambient air samples collected during the RI were compared to the compounds listed in Table 3.1 of the Air Guideline Values (AGV) derived by the NYSDOH located in the NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion dated as updated in May 2017.

TCE was detected in sample B-4 at a concentration of 11 ug/m³, exceeding the AGV value of 5 ppb.

A summary table of data for chemical analyses performed on ambient air samples is included in Table 5. Figure 11, show the location and results for ambient air samples that exceed the Air Guideline Values (AGV) derived by the



NYSDOH located in the NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion dated as updated in May 2017.

3.4 Soil Investigation

3.4.1 Drilling and Soil Logging- Building of the Subject Property

Eleven (11) borings identified as SB-56, SB-57, SB-71 and SB-74 through SB-76 were completed within the building of the subject property. Soil boring SB-71 was installed in the loading area adjacent to 27th Street.

The borings were advanced to depths ranging between 10 and 15 feet bgs. The concrete ranged in thickness between 0.5 and 1 foot. Soil underlying the concrete consisted of dark brown medium to fine sand and a trace of silt and typical historic fill material. Groundwater was encountered between 10 and 13 feet.

Soil in each boring was observed for visual and olfactory indications of contamination, as well as field-screened with a photoionization detector (PID). Soil samples were collected for analysis from each boring. One (1) soil sample was collected at approximately 2-2.5 feet below ground surface (bgs). One (1) soil sample was collected from fill material. One (1) soil sample was collected at approximately 8-8.5 feet bgs corresponding to the depth interval where the highest concentrations were identified during previous remedial investigation activities. In locations where fill material extended to 8 feet bgs or greater, only two (2) samples were collected.

All samples were analyzed for part 375 VOCs, SVOCs, PCBs, pesticides, TAL metals including hexavalent chromium and perfluorooctanesulfonic acid compounds (PFOAs). Soil samples collected for analysis of VOCs were collected using Terra Core® sampling equipment. For analysis of non-volatile parameters, samples were homogenized and placed into glass jars, with the exception of samples for PFOs. Decontamination procedures were used for all non-dedicated sampling equipment. After collection, all sample jars were capped and securely tightened, and placed in iced coolers and maintained at 4°C ±2°C until they were transferred to the laboratory for analysis. All samples were transferred to the laboratory under a chain-of-custody, provided as part of the laboratory deliverable package.

Boring logs prepared by a geologist are attached in Appendix A.

3.4.2 Soil Chemistry - Building of the Subject Property

Soil samples were analyzed by York Labs, a New York State certified laboratory. Soil/fill samples collected during the RI were compared to NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-(SCO), Protection of Groundwater, Restricted Commercial and Restricted Industrial. Analysis for PFOAs was conducted via EPA Method 537 by Con-test Analytical Laboratory of East Longmeadow, MA.

Volatile Organic Compounds

Acetone was identified at a concentration of 0.12 mg/kg exceeding the Restricted Use SCO for protection of groundwater in sample SB-58A, collected at a depth of 2-2.5 feet bgs.

TCE was detected at concentrations of 14 and 9.6 mg/kg exceeding the Restricted Use SCO for protection of groundwater in samples SB-56B and SB-58B, respectively.



Semi-Volatile Organic Compounds

Benzo(a)anthracene, was detected in samples SB-56A (1.59 mg/kg), SB-58C (1.16 mg/kg), SB-61A(1.84 mg/kg), SB-61C (3.93 mg/kg), SB-71A (1.11 mg/kg) and SB-73B(1.04 mg/kg) exceeding the Restricted Use SCO for protection of groundwater. In sample SB-61B (7.94 mg/kg), it was detected at a concentration exceeding the Restricted Use SCO for protection of groundwater and commercial use. In samples SB-58B (49.1 mg/kg), SB-59-A (19.1 mg/kg) and SB-71B (12.5 mg/kg), it was also detected exceeding the industrial use.

Benzo(a)pyrene was detected in samples SB-56A (1.53 mg/kg), SB-58C(1.18 mg/kg), SB-59A (21.0 mg/kg), SB-61A(1.78 mg/kg), SB-61B (7.46 mg/kg), SB-61C (4.21 mg/kg), SB-71A (1.15 mg/kg) and SB-71B (12.2 mg/kg) exceeding the Restricted Use SCO for commercial and industrial use. In sample SB-58B, it was also detected exceeding the SCO for protection of groundwater.

Benzo(b)fluoranthene was detected in sample SB-61C exceeding the Restricted Use SCO for protection of groundwater. In sample SB-61B (5.89 mg/kg), it was detected exceeding the NYSDEC Part 375 Restricted Use SCO for protection of groundwater and for commercial use. In samples SB-58B (39.4 mg/kg), SB-59A(17.3 mg/kg), SB-71B (11.2 mg/kg) it was also detected exceeding the industrial standard.

Benzo(k)fluoranthene was detected in samples SB-58B (29.1 mg/kg), SB-59A (13.3 mg/kg), SB-61B(6.18 mg/kg), SB-61C(3.61 mg/kg) and SB-71B (10.5 mg/kg) at concentrations exceeding the Restricted Use SCO for protection of groundwater.

Chrysene was detected in samples SB-56A(1.56 mg/kg), SB-58B (48.4 mg/kg), SB-58C (1.43 mg/kg), SB-59A (18.1 mg/kg), SB-61A (1.82 mg/kg), SB-61B (8.43 mg/kg), SB-61C (4.51 mg/kg), SB-71A (1.2 mg/kg), SB-71B (13.5 mg/kg) and SB-73B (1.1 mg/kg) exceeding the Restricted Use SCO for protection of groundwater.

Dibenzo(a,h)anthracene was detected in samples SB-58B (8.71 mg/kg), SB-59A (2.53 mg/kg), SB-61B (1.58 mg/kg), and SB-71B (2.78 mg/kg) exceeding the Restricted Use SCO for industrial and commercial use. In, sample SB-61C (1.01) it was only detected exceeding the Restricted Use SCO for commercial use.

Indeno(1,2,3-cd)pyrene was detected in sample SB-71B (7.71) exceeding the Restricted Use SCO for commercial use. In samples SB-58B (29.5 mg/kg) and SB-59A (12.8 mg/kg), was detected in excess of the standards.

PCBs and Pesticides

PCBs and pesticides were not detected exceeding the most stringent standard in any of the soil samples collected within the building.

Metals

Arsenic was identified in samples SB-61C and SB-73B at concentrations of 19.6 mg/kg and 45.6 mg/kg, respectively, in excess of Restricted SCO for commercial use.

Barium was detected in samples in samples SB-56A (1,540 mg/kg), SB-57A, (945 mg/kg) exceeding the Restricted Use SCO for protection of groundwater and commercial use. In samples SB-58B(546 mg/kg), SB-58C (653 mg/kg), SB-59B (594 mg/kg), SB-60B (466 mg/kg), SB-61B (709 mg/kg), SB-61C (573 mg/kg) and SB-71A (717 mg/kg), SB-73A (421 mg/kg) and SB-74A(587 mg/kg) it was detected only exceeding the Restricted Use SCO for commercial use.



Cadmium was detected only in sample SB-74B at a concentration of 22.6 mg/kg exceeding the SCO for protection of groundwater and the Restricted SCO for commercial use.

Copper was detected in samples SB-56B (481 mg/kg), SB-58B (331 mg/kg), SB-59B (280 mg/kg) and SB-71A (385 mg/kg), SB-74B (1,380 mg/kg) at concentrations exceeding the Restricted Use SCO for commercial use.

Lead was detected in samples SB-56A (896 mg/kg), SB-57A (627 mg/kg), SB-59A(897 mg/kg), SB-60B (772 mg/kg), SB-60C (691mg/kg), SB-61A (596 mg/kg), SB-71B (531 mg/kg), SB-73A (656 mg/kg) and SB-76A(514 mg/kg) exceeding the Restricted Use SCO for protection of groundwater. In samples SB-58B (1,220 mg/kg), SB-58C (2,200 mg/kg), SB-59B (1,050 mg/kg), SB-71B (2,450 mg/kg), SB-61C (1,670 mg/kg), SB-71 (1,830 mg/kg), SB-74A (1,170 mg/kg), SB74B (2,680 mg/kg), SB-75B (2,300 mg/kg) was detected exceeding the Restricted Use SCO for protection of groundwater and commercial use.

Zinc was detected in samples SB-71A and SB-74B at concentrations of 2,570 and 6,980 mg/kg, respectively, at a concentration exceeding the Restricted Use SCO for protection of groundwater.

Mercury was detected in samples SB-58B (1.68 mg/kg), SB-59A (0.957 mg/kg), SB-59B (0.734 mg/kg), SB-60B (1.02 mg/kg) and SB-61B (2.53 mg/kg) exceeding the Restricted Use SCO for protection of groundwater. In sample SB-61C mercury was detected at a concentration of 4.78 mg/kg exceeding the Restricted Use SCO for protection of groundwater and commercial use.

A summary table of data for chemical analyses performed on soil samples is included in Table 1. Figures 12A, 12B, and 12C show the location and results for soil/fill that exceed the NYSDEC Part 375 Restricted Use SCO, Protection of Groundwater, Restricted Commercial and Restricted Industrial.

PFOAs

Analytical results identified only one PFOA compound, Perfluorodecanesulfonic Acid, slightly in excess of the laboratory reporting level of 2 parts per billion in SB-57A. PFOAs were not identified in any other samples.

3.4.3 Drilling and Soil Logging- Exterior of the Subject Property

Nine (9) borings identified as SB-64 through SB-70 and SB-72 were completed within the exterior of the subject property. Soil boring SB-72 was installed adjacent to the building, along the sidewalk of 49th Street.

The borings were advanced to depths ranging between 10 and 15 feet bgs. The concrete ranged in thickness between 0.5 and 1 foot. Soil underlying the concrete consisted of dark brown medium to fine sand and a trace of silt and typical historic fill material. Groundwater was encountered between 10 and 13 feet.

Soil in each boring was observed for visual and olfactory indications of contamination, as well as field-screened with a PID. As stated in the previous section, three (3) samples were collected from each boring. In locations where fill material extended to 8 feet bgs or greater, only two (2) samples were collected.

All samples were analyzed for part 375 VOCs, SVOCs, PCBs, pesticides, TAL metals including hexavalent chromium and PFOs. Soil samples collected for analysis of VOCs were collected using Terra Core® sampling equipment. For analysis of non-volatile parameters, samples were homogenized and placed into glass jars, with the exception of samples for PFOs. Decontamination procedures were used for all non-dedicated sampling equipment. After collection, all sample jars were capped and securely tightened, and placed in iced coolers and maintained at 4°C ±2°C until they were transferred to the laboratory for analysis. All samples were transferred to the laboratory



under a chain-of-custody, provided as part of the laboratory deliverable package. Boring logs prepared by a geologist are attached in Appendix I.

3.4.4 Soil Chemistry – Exterior of the Subject Property

Soil samples were analyzed by York Labs, a New York State certified laboratory. Soil/fill samples collected during the RI were compared to NYSDEC Part 375 Restricted Use SCO, Protection of Groundwater, Restricted Commercial and Restricted Industrial. Analysis for PFOAs was conducted via EPA Method 537 by Con-test Analytical Laboratory of East Longmeadow, MA.

Volatile Organic Compounds

VOCs were not detected exceeding the most stringent standard in any of the soil samples collected within the exterior.

Semi-Volatile Organic Compounds

The SVOC compound, benzo(a)anthracene, was detected in samples SB-64B (1.950 mg/kg), SB-67A (3.52 mg/kg) and SB-69B (1.47 mg/kg) exceeding the Restricted Use SCO for protection of groundwater. In sample SB-65A (20.3 mg/kg) it was detected at a concentration in excess of the standards.

Benzo(a)pyrene was detected in samples SB-64B (1.98 mg/kg), SB-65A (18.7 mg/kg), SB-67A (3.52 mg/kg), SB-69B (1.47 mg/kg), exceeding SCO for protection of groundwater.

Benzo(b)fluoranthene was detected in samples SB-67A (4.21mg/kg), SB-69A (1.73 mg/kg) and SB-69B (2.35 mg/kg) exceeding the Restricted Use SCO for protection of groundwater. In sample SB-65A (14.4 mg/kg) it was detected at a concentration in excess of the standards.

Benzo(k)fluoranthene was detected in samples SB-64B (1.73 mg/kg), SB-65A (17.2 mg/kg), SB-67A (3.88 mg/kg) and SB-69B (2.08 mg/kg) exceeding the Restricted Use SCO for protection of groundwater.

Chrysene was detected in samples SB-64B (2.18 mg/kg), SB-65A (20.8 mg/kg), SB-67A (4.81 mg/kg), SB-69A (1.44 mg/kg) and SB-69B (1.91 mg/kg) exceeding the Restricted Use SCO for protection of groundwater.

Dibenzo(a,h)anthracene was detected in samples SB-67A (0.886 mg/kg) and SB-69B (0.691 mg/kg) exceeding the Restricted Use SCO for commercial use. In sample SB-65A (4.28 mg/kg) was detected at a concentration exceeding the Restricted Use SCOs for commercial and industrial use.

Indeno(1,2,3-cd)pyrene was only detected in sample SB-65A and SB-66B at concentrations exceeding the SCO for protection of groundwater and Restricted Use SCO for commercial use.

PCBs and Pesticides

PCBs and pesticides were not detected exceeding the most stringent standard in any of the soil samples collected within the building.

Metals



Arsenic was identified in sample SB-72A at a concentration of 39.6 mg/kg in excess of the SCOs for protection of Groundwater, Restricted use commercial and industrial..

Barium was detected in samples SB-64B (740 mg/kg), SB-69B (425 mg/kg), SB-70A (530 mg/kg) and SB-72A (433 mg/kg) exceeding the Restricted Use SCO for commercial use. In sample SB-65A (835 mg/kg) was detected at a concentration exceeding the SCO for protection of groundwater and Restricted Use commercial use.

Copper was only detected in sample SB-70A at a concentration of 329 mg/kg exceeding the Restricted Use SCO for commercial use.

Lead was detected in samples SB-65A (1,910 mg/kg), SB-69B (3,420 mg/kg) and SB-72A (1,090 mg/kg) exceeding the SCOs for protection of groundwater and Restricted use commercial use. In samples SB-64B (686 mg/kg), SB-70A (944 mg/kg), and SB-72B (458 mg/kg) was detected exceeding the SCO for protection of groundwater.

Selenium was detected in samples SB-64A (11.2 mg/kg) and SB-68A at a concentration of 11.2 mg/kg in both samples, exceeding the SCO for protection of groundwater

Mercury was only detected in sample SB-65A at a concentration of 1.75 mg/kg exceeding the SCO for protection of groundwater.

A summary table of data for chemical analyses performed on soil samples is included in Table 1. Figures 12A, 12B, and 12C show the location and results for soil/fill that exceed the NYSDEC Part 375 SCOs for Protection of Groundwater, Restricted Commercial and Restricted Industrial.

PFOAs

No PFOA compounds were identified in excess of the laboratory reporting level of 2 parts per billion.

3.4.5 Drilling and Soil Logging- Oil/Water Separator

Three (3) soil borings identified as SB-62, SB-63 and SB-77 were advanced adjacent to the oil water separator to assess the presence of petroleum product.

The borings were advanced to depths ranging between 10 and 15 feet bgs. The concrete ranged in thickness between 0.5 and 1 foot. Soil underlying the concrete consisted of dark brown medium to fine sand and a trace of silt and typical historic fill material. Groundwater was encountered between 10 and 13 feet.

Soil in each boring was observed for visual and olfactory indications of contamination, as well as field-screened with a PID. One (1) soil sample was collected from soil borings SB-62 and SB-63 at a depth of approximately 8-8.5 feet. In soil boring SB-77, three (3) samples were collected as described in Section 3.1.1.

Samples SB-62 and SB-63 were only analyzed for part 375 VOCs and fingerprint analysis. Sample SB-77 was analyzed for part 375 VOCs, SVOCs, PCBs, pesticides, TAL metals including hexavalent chromium and PFOs. Soil samples collected for analysis of VOCs were collected using Terra Core® sampling equipment. For analysis of non-volatile parameters, samples were homogenized and placed into glass jars, with the exception of samples for PFOs. Decontamination procedures were used for all non-dedicated sampling equipment. After collection, all sample jars were capped and securely tightened, and placed in iced coolers and maintained at 4°C ±2°C until they were transferred to the laboratory for analysis. All samples were transferred to the laboratory under a chain-of-custody, provided as part of the laboratory deliverable package.



Boring logs prepared by a geologist are attached in Appendix I.

3.4.6 Soil Chemistry – Oil/Water Separator

Soil samples were analyzed by York Labs, a New York State certified laboratory. Soil/fill samples collected during the RI were compared to NYSDEC Part 375 SCOs for Protection of Groundwater, Restricted Commercial and Restricted Industrial. Analysis for PFOAs was conducted via EPA Method 537 by Con-test Analytical Laboratory of East Longmeadow, MA.

Petroleum product was not detected in sample SB-62 or SB-63. VOC compound acetone was only detected in sample SB-63 at a concentration of 0.051 mg/kg exceeding the SCO for protection of groundwater.

SVOCs compounds benzo(a)anthracene (2.55 mg/kg), benzo(b)fluoranthene (2.65 mg/kg), benzo(k)fluoranthene (2.3 mg/kg), chrysene (2.4 mg/kg) and dibenzo(a,h)anthracene (0.597 mg/kg) were detected in sample SB-77A exceeding the SCO for protection of groundwater. Benzo(a)pyrene (2.87 mg/kg) was detected exceeding the SCO for protection of groundwater and Restricted Use commercial use.

Metal compound nickel (185 mg/kg) was detected exceeding the SCO for protection of groundwater. Copper (1,870 mg/kg) and lead (1,480 mg/kg) were detected exceeding the SCO for protection of groundwater and Restricted Use commercial use. Barium (497 mg/kg) was detected exceeding the SCO of Restricted commercial use. Zinc (14,600 mg/kg) exceeding the Restricted Use SCO for industrial use.

A summary table of data for chemical analyses performed on soil samples is included in Table 1. Figures 12A, 12B and 12C show the location and results for soil/fill that exceed the NYSDEC Part 375 SCOs for Protection of Groundwater, Restricted Commercial and Restricted Industrial.

PFOAs

No PFOA compounds were identified in excess of the laboratory reporting level of 2 parts per billion.

3.5 Groundwater Investigation

AESI installed seven (7) additional permanent monitoring wells as part of the RI activities to delineate groundwater along the perimeter of the site, and determine if groundwater contamination was present below the parking lot in the vicinity of the elevated soil vapor sample locations identified during previous RI activities.

3.5.1 Groundwater Monitoring Well Construction

Monitoring well MW-4 was installed in the exterior of the subject property. MW-5 was installed in the parking lot, adjacent to 49th Avenue. MW-9 was installed in the loading area adjacent to 27th Street. MW-6 was installed in the former location of temporary well point TW-4 to confirm the presence of PCE and PCB contamination in dissolved groundwater. MW7 and MW-8 were installed at the eastern property boundary along the Dutch Kills to investigate whether contamination is migrating offsite towards the Dutch Kills. MW-10 was installed along the sidewalk of 49th Avenue

All seven (7) wells were constructed with 2 inch diameter, schedule 40-pvc riser and 10 feet of schedule 40 0.02 inch slotted screen. Clean sand was used to fill the annulus around the well screen to a height of at least one (1) foot exceeding the top of the screen. The top of the sand pack was sealed with hydrated bentonite. All wells were finished at grade with a flush mount well cover set into a concrete pad.



The wells were developed with a submersible pump and were surged to agitate the water and remove fines from the well screen. The wells were pumped after surging until the water became clear and turbidity was less than 50 NTUs. The wells were allowed to stabilize for eight (8) days prior to sampling.

One (1) groundwater sample was collected for chemical analysis during this supplemental RI. All samples were analyzed for part 375 VOCs, SVOCs, PCBs, pesticides, herbicides, TAL metals including hexavalent chromium and PFOs.

Samples collected for analysis of VOCs were collected using HCL preserved vials. For analysis of non-volatile parameters, samples were homogenized and placed into amber glass jars. Decontamination procedures were used for all non-dedicated sampling equipment. After collection, all sample jars were capped and securely tightened, and placed in iced coolers and maintained at 4°C ±2°C until they were transferred to the laboratory for analysis. All samples were transferred to the laboratory under a chain-of-custody provided as part of the laboratory deliverable package. One (1) field blank and one (1) trip blank sample were collected for laboratory QA/QC purposes.

3.5.2 Monitoring Well Survey

The location and elevation of groundwater monitoring wells was surveyed by a New York State licensed surveyor. The survey was performed relative to the NAVD88 datum and elevations were surveyed to the nearest 0.01 feet.

3.5.3 Water Level Measurement

Each monitoring well was gauged with an interface probe to record depth to groundwater to the nearest 0.01 feet. Water level data is included in Table 3.

3.5.4. Groundwater Chemistry

Groundwater samples were analyzed by York Labs, a New York State certified laboratory and results are compared to NYSDEC TOGS Standards and Guidance Values (TOGS) – GA. Analysis for PFOAs was conducted via EPA Method 537 by Con-test Analytical Laboratory of East Longmeadow, MA.

Volatile Organic Compounds

VOCs were not detected exceeding the most stringent standard in any of the groundwater samples collected.

Semi-Volatile Organic Compounds

2-Methylphenol was identified in all samples at concentrations of 2.56 ug/m³ exceeding the standard.

Benzo(a)anthracene was detected in all samples at concentrations ranging between 0.0513 ug/m³ and 0.338 ug/m³ exceeding the standard.

Benzo(a)pyrene was detected in all samples at concentrations ranging between 0.0513 ug/m³ and 0.421 ug/m³ exceeding the standard.

Benzo(b)fluoranthene was detected in all samples at concentrations ranging between 0.0513 ug/m³ and 0.503 ug/m³ exceeding the standard.



Benzo(k)fluoranthene was detected in all samples at concentrations ranging between 0.0513 ug/m³ and 0.400 ug/m³ exceeding the standard.

Chrysene was detected in all samples at concentrations ranging between 0.0513 ug/m³ and 0.451 ug/m³ exceeding the standard.

Indeno(1,2,3-cd)pyrene was detected in all samples at concentrations ranging between 0.0513 ug/m³ and 0.308 ug/m³ exceeding the standard.

Phenol was detected in all samples at concentrations ranging between 0.0513 ug/m³ and 0.308 ug/m³ exceeding the standard.

PCBs

PCBs and Pesticides were not detected exceeding the most stringent standard in any of the groundwater samples.

Total Metals

Lead was detected in sample MW-4 at a concentration of 728 ug/m³ exceeding the TOGS standard.

Magnesium was detected in samples MW-1 through MW-5 at concentrations ranging between 159,000 ug/m³ and 404,000 ug/m³ exceeding the TOGs standard.

Manganese was detected in samples MW-1 (2,840 ug/m³), MW-4 (1,300 ug/m³), MW-5 (1,730 ug/m³) and MW-8 (511 ug/m³) exceeding the TOGs standard.

Sodium was detected in the samples collected in each well with the exception of MW-6 at concentrations ranging from 20,100 ug/m³ and 3,890,000 ug/m³ exceeding the TOGs standard.

Selenium was detected in all samples at concentrations ranging between 20.6 and 103 ug/m³ exceeding the TOGS standard.

Dissolved Metals

Magnesium was detected in all samples at concentrations ranging between 42,000 ug/m³ and 404,000 ug/m³ exceeding the TOGS standard.

Manganese was detected in the samples collected in each well with the exception of MW-6 and MW-7 at concentrations ranging between 779 ug/m³ and 2,770 ug/m³ exceeding the TOGS standard.

Sodium was detected in all samples at concentrations ranging from 931,000 ug/m³ and 5,960,000 ug/m³ exceeding the TOGS standard.

Selenium was detected in all samples at concentrations ranging between 32.1 and 115 ug/m³ exceeding the TOGS standard.



Herbicides

2,4,5-TP (Silvex) was detected in the samples collected in each well at a concentration of 5 ug/m³ exceeding the TOGS standard

Sampling logs with information on purging and sampling of groundwater monitor wells is included in Appendix B. A summary table of data for chemical analyses performed on groundwater samples is included in Table 2. Figure 7 shows the location and results for groundwater samples that exceed NYSDEC TOGS.

PFOA

PFOAs were detected in all groundwater samples at concentrations ranging between 57.1 ppt and 507 ppt. The highest concentration was detected in MW-9, on the upgradient side of the property, and concentrations decreased across the property to the east. Notably, the three (3) wells located along the eastern property boundary with the Dutch Kills contained the lowest concentrations.

Sampling logs with information on purging and sampling of groundwater monitor wells is included in Appendix B. A summary table of data for chemical analyses performed on groundwater samples is included in Table 2. PFOA and 1,4-Dioxane results are included as Table 6. Figure 7 shows the location and results for groundwater samples that exceed NYSDEC TOGS

3.6 Management of Investigation Derived Waste

Soil cutting and groundwater investigation derived wastes (IDW) was containerized in 55-gallon UN/DOT approved drums. The drums were staged on site in a secure area pending disposal. Drums will be disposed properly at an appropriate offsite facility.

3.7 Community Air Monitoring Program

In order to confirm that investigation activities are not adversely impacting the surrounding neighborhood, AESI performed a Community Air Monitoring Program (CAMP) in compliance with the NYSDOH CAMP guidance. Continuous monitoring for VOCS and dust was conducted at the perimeter of the property during intrusive activities. Upwind measurements were collected at the beginning of the workday. Measurements were collected continuously at the downwind limit of the work zone where the general public or site employees were present.

3.7.1 Air Monitoring Program Methodology

Air Monitoring was conducted using a Dust Trak which is designed for continuous monitoring use to measure particulate matter in the size of 0.1 to 10 micrometers at concentrations between 0.001 and 400 milligrams per cubic meter (mg/m³) and a photoionization detector (PID). The instruments were calibrated on a daily basis, and operated and maintained in accordance with the manufacturer's specifications.

The action levels utilized during the perimeter air monitoring followed at a minimum; the requirements established in the United States of Environmental Protection Agency (USEPA) to be protective of the health of sensitive residential receptors (RETEC, 2003) and the National Ambient Air Quality Standard (NAAQS) for PM-10 as specified in USEPA 40 CFR Part 50, Attachment K as well as the Occupational Safety and Health Administration (OSHA) Standard for nuisance dust exposure (29 CFR 1910.1025 and 29 CFR 1926.62)



Real-time continuous air monitoring were conducted on three (3) stations located on grids A10, A13 and D15, and were performed throughout redevelopment activities. The three (3) temporary stations documented that particulate emissions did not migrated outside the work zone area. The location of these stations was subject to change based on the wind conditions and work zone activities. These monitors served as the primary control point for ensuring safe conditions at the Site Perimeter and any abutting sensitive receptors.

During precipitation events, or during periods when intrusive activities were not performed, the air monitoring activities were suspended. If visible dust conditions were sustained for more than fifteen (15) minutes within the active work area, dust suppression methods were implemented (i.e., water spray, stop soil disturbance activities). Any significant change in the wind direction during the day were noted to ensure and understanding of the possible variations in wind directions over the course of the day. CAMP results are attached in Appendix E.

3.8 Qualitative Human Health Exposure Assessment

A Qualitative Human Health Exposure Assessment was conducted in accordance with Appendix 3B of DER-10 is attached in Appendix F.

4.0 CONCLUSIONS & RECOMMENDATIONS

4.1 Soil Gas & Ambient Air

AESI performed a remedial investigation of soil gas at the subject property to determine if impacted soils beneath the building would potentially impact the indoor air at the property. Soil gas was screened in 65 locations across the property using a mobile laboratory. Results of the screening showed higher concentrations of PCE in soil gas along the northern perimeter of the property, indicating that the source of the soil gas was offsite. Subsequent sampling conducted using Summa canisters confirmed that soil gas at the property has been contaminated with TCE and PCE in excess of the air guidance value. Results of this investigation also showed higher contaminant concentrations along the northern property boundary, suggesting that there is an offsite source contributing to the impact onsite.

Ambient air samples collected during the remedial investigation did identify one slight exceedance of the air guidance value inside the building, suggesting that a complete vapor intrusion pathway exists on site. A sub slab depressurization system will need to be installed beneath the existing building on the site to mitigate the vapor intrusion impacts. A Remedial Action Workplan (RAWP) will be submitted under separate cover.

4.2 Soil

Results of the remedial investigation confirmed the results of the prior investigations at the site. Contamination consistent with historic fill material has been identified throughout the property, with the greatest depth of fill along the east side of the property, adjacent to the Dutch Kills. During the remedial investigation tetrachloroethene (PCE) was identified in only three (3) samples in excess of the protection of groundwater SCO. Review of these results in conjunction with the prior results, confirm that the PCE contamination has been delineated within the building. PCE was not detected in excess of the standards in any of the samples collected within the parking lot, or along the eastern property boundary, confirming that contamination from the site is not migrating offsite into the Dutch Kills.

No PCB contamination was identified in any of the soil samples collected during the Remedial Investigation, confirming that PCBs are not a contaminant of concern at this site.

Soil samples were analyzed for PFAS using EPA method 437. No PFAS compounds were detected in excess of the laboratory detection limit, and PFAS compounds are not considered to be a contaminant of concern at this site.



Soil remediation is warranted to mitigate chlorinated solvent impacts identified on site, principally in the vicinity of the eastern floor drain. A Remedial Action Workplan will be submitted under separate cover documenting the proposed remedial strategy.

4.3 Groundwater

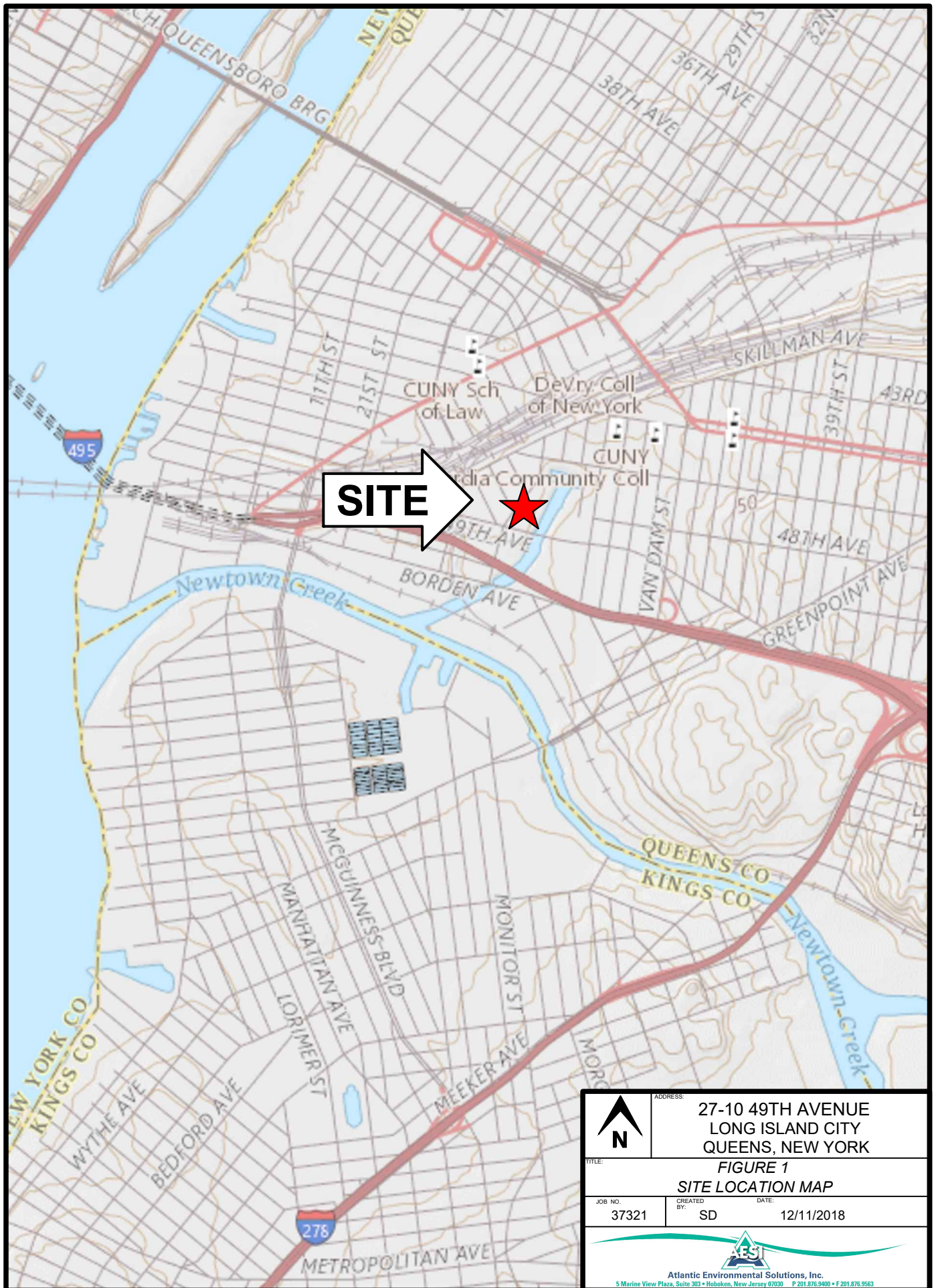
Ten (10) permanent monitoring wells were sampled as part of the remedial investigation. Samples were submitted for analysis of part 375 VOCs, SVOCs, PCBs, pesticides, herbicides, TAL metals including hexavalent chromium and PFOAs. Analysis of the samples confirmed the presence of contamination consistent with the historic fill material used during development of the site. No volatile organic or petroleum related contamination was identified in excess of the TOGs. Low levels of PCE were observed in three (3) of the monitoring wells, MW-2, MW5 and MW-8. MW-5, along the 49th Ave property line contained the highest concentration of PCE as 3.3 ppb, with MW-2 containing 2 ppb and MW-8, located in the northeastern property corner by 49th Avenue and the Dutch Kills, containing 1.8 ppb. The presence of this low level of contamination in these wells, suggests that contamination is migrating onto the property from an offsite source along 49th Avenue. The contamination reaching the site appears to be the downgradient edge of a contaminant plume, which may be related to the elevated soil gas concentrations observed within the building and parking lot. Further groundwater monitoring will be conducted in conjunction with the soil remedial action, but it does not appear that significant groundwater remediation will be required at this site.

Analysis of groundwater samples for PFOAs identified total PFOAs at a concentration of 507 parts per trillion (ppt) in monitoring well MW-9, at the upgradient side of the property. PFOA concentrations decrease significantly across the property to the east, with the monitoring wells located along the Dutch Kills containing less than 70 ppt. New York State has not promulgated a standard for PFOAs in groundwater, therefore, results were compared to the drinking water standard recommended by the Environmental Protection Agency (EPA). As groundwater at the site is not utilized as a drinking water source, and contamination concentrations suggest that PFOAs are migrating onto the site from the west, no remedial action is proposed at this time. However, remedial action recommended for soil gas and soil impacts at the site will ensure that site occupants are not adversely impacted by the presence of low levels of PFOAs in groundwater.

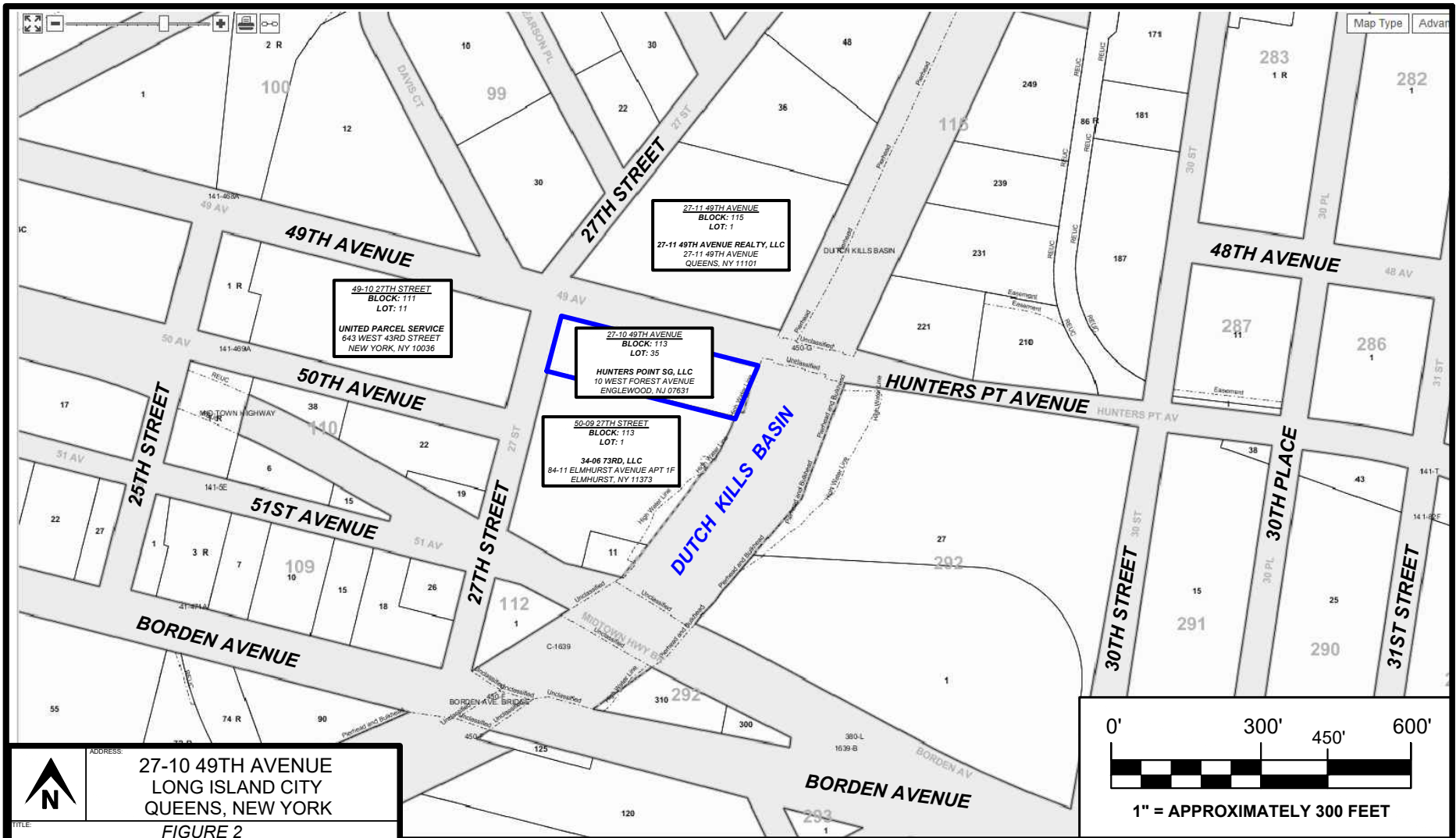


FIGURES





 N	ADDRESS: 27-10 49TH AVENUE LONG ISLAND CITY QUEENS, NEW YORK	
	TITLE: FIGURE 1 SITE LOCATION MAP	
JOB NO. 37321	CREATED BY: SD	DATE: 12/11/2018
 Atlantic Environmental Solutions, Inc. <small>5 Marine View Plaza, Suite 303 • Hoboken, New Jersey 07030 P 201.876.9400 • F 201.876.9563</small>		



ADDRESS: 27-10 49TH AVENUE
LONG ISLAND CITY
QUEENS, NEW YORK

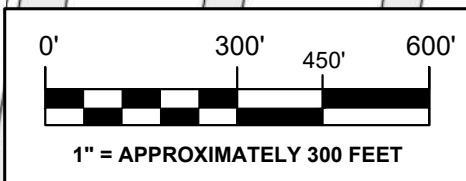
TITLE: **FIGURE 2
TAX MAP**

JOB NO. 37321 CREATED BY: SD DATE: 12/12/2018

Atlantic Environmental Solutions, Inc.
5 Marine View Plaza, Suite 303 • Hoboken, New Jersey 07030 P 201.876.9400 • F 201.876.9503

LEGEND:
SITE BOUNDARY
(BLOCK: 113, LOT: 35)

SOURCE:
NYC DEPARTMENT OF FINANCE, DIGITAL TAX MAP



LEGEND:

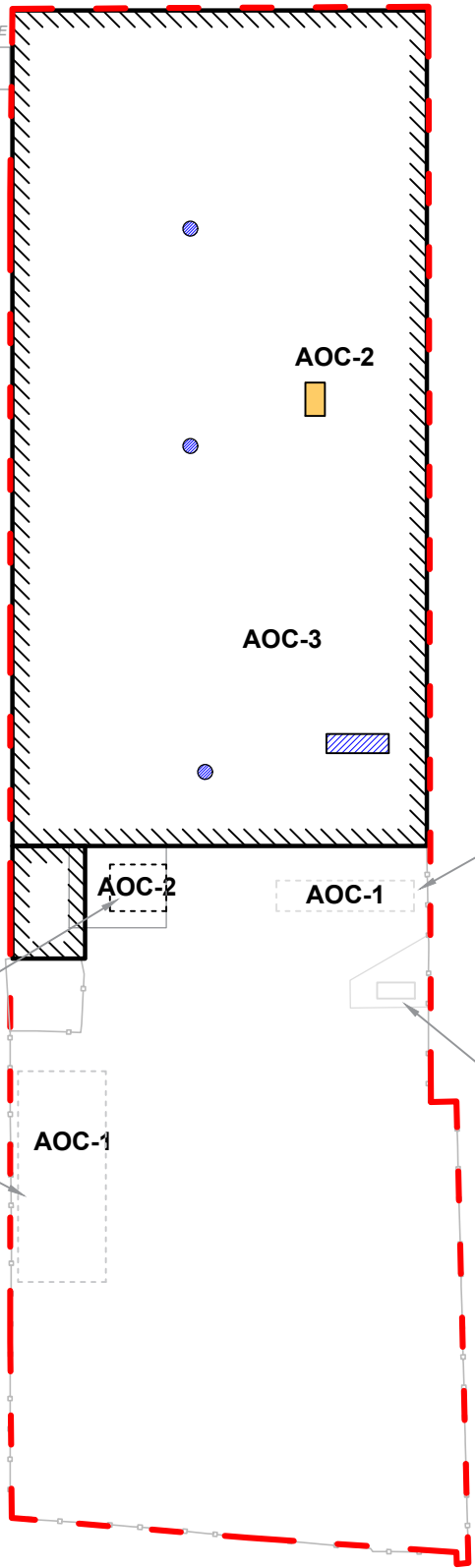
- - - PROPERTY BOUNDARY
- FENCE
- FLOOR DRAIN
- OIL-WATER SEPARATOR
- TROUGH DRAIN
- AOC-1** UNDERGROUND STORAGE TANK
- AOC-2** OIL-WATER SEPARATOR
- AOC-3** HYDRAULIC EQUIPMENT



27TH STREET

49TH AVENUE

CONCRETE PAD

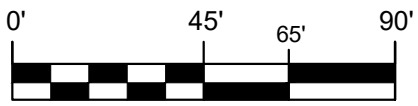


7,500-GALLON HEATING OIL UST

GENERATOR ON CONCRETE PAD

EXTERIOR OIL-WATER SEPARATOR AND 550-GALLON WASTE OIL TANK MOUNTED ON CONCRETE PAD







FORMER LOCATION OF 4,000-GALLON GASOLINE TANKS



1" = APPROXIMATELY 45 FEET

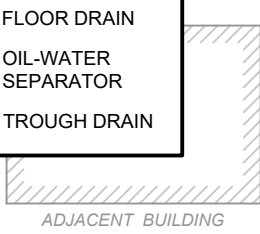
N	ADDRESS: 27-10 49TH AVENUE LONG ISLAND CITY QUEENS, NEW YORK	
TITLE: FIGURE 3 AREA OF CONCERN MAP		
JOB NO. 37321	CREATED BY: SD	DATE: 12/11/2018
 Atlantic Environmental Solutions, Inc. <small>5 Marine View Plaza, Suite 300 • Holbrook, New Jersey 07733 • P 201.876.3400 • F 201.876.9553</small>		

LEGEND:

-  PROPERTY BOUNDARY
-  FENCE
-  MONITORING WELL LOCATION
-  FLOOR DRAIN
-  OIL-WATER SEPARATOR
-  TROUGH DRAIN

27TH STREET

49TH AVENUE



CONCRETE PAD

MW-9

MW-1

MW-10

MW-2

7,500-GALLON HEATING OIL UST

EXTERIOR OIL-WATER SEPARATOR AND 550-GALLON WASTE OIL TANK MOUNTED ON CONCRETE PAD

GENERATOR ON CONCRETE PAD

FORMER LOCATION OF 4,000-GALLON GASOLINE TANKS

MW-4

MW-5



1" = APPROXIMATELY 45 FEET

MW-3

MW-6

MW-7

MW-8



ADDRESS:
27-10 49TH AVENUE
LONG ISLAND CITY
QUEENS, NEW YORK

TITLE:
**FIGURE 5
MONITORING WELL LOCATION MAP**

JOB NO. 37321
CREATED BY: SD
DATE: 1/2/2019



Atlantic Environmental Solutions, Inc.

5 Marine View Plaza, Suite 300 • Holbrook, New Jersey 07733 • P 201.876.3400 • F 201.876.9553

LEGEND:

- - - PROPERTY BOUNDARY
- FENCE
- SOIL BORING LOCATION
- SOIL BORING LOCATION WITH NO EXCEEDANCES
- FLOOR DRAIN
- OIL-WATER SEPARATOR
- TROUGH DRAIN

27TH STREET

SB-22	
Date Sampled:	11/10/2017
Depth:	11.5/12'
Acetone:	0.053

SB-23	
Date Sampled:	11/10/2017
Depth:	11.5/12'
Acetone:	0.065

SB-14	
Date Sampled:	10/24/2017
Depth:	3.5/4'
PCE:	10.9
TCE:	0.956

SB-16	
Date Sampled:	10/24/2017
Depth:	11.5/12'
Acetone:	0.202

SB-17	
Date Sampled:	10/24/2017
Depth:	11.5/12'
PCE:	2.66

SB-29	
Date Sampled:	12/13/2017
Depth:	8'
PCE:	45.5
TCE:	0.625

SB-18	
Date Sampled:	10/24/2017
Depth:	11.5/12'
Acetone:	0.154

SB-26	
Date Sampled:	12/13/2017
Depth:	8'
PCE:	29.0

SB-19	
Date Sampled:	10/24/2017
Depth:	3.5/4'
PCE:	1.84

SB-4	
Date Sampled:	10/23/2017
Depth:	15.5/16'
Acetone:	0.115

SB-1	
Date Sampled:	10/23/2017
Depth:	7.5/8'
PCE:	10.5

SB-3	
Date Sampled:	10/23/2017
Depth:	15/15.5'
Acetone:	0.060

SB-2	
Date Sampled:	10/23/2017
Depth:	15.5/16'
Acetone:	0.337

SB-35D	
Date Sampled:	12/18/2017
Depth:	8/8.5'
Acetone:	0.086

SB-12	
Date Sampled:	10/24/2017
Depth:	3.5/4'
Acetone:	0.060

SB-37S	
Date Sampled:	12/18/2017
Depth:	2/2.5'
PCE:	2.41

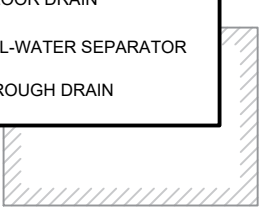
SB-30	
Date Sampled:	12/13/2017
Depth:	8'
PCE:	61.6
TCE:	0.946

SB-28	
Date Sampled:	12/13/2017
Depth:	8'
PCE:	15.0

SB-27	
Date Sampled:	12/13/2017
Depth:	8'
PCE:	14.8

SB-8	
Date Sampled:	10/23/2017
Depth:	10/10.5'
Benzene:	0.065

SB-7	
Date Sampled:	10/23/2017
Depth:	10/10.5'
2-Butanone (MEK):	0.389
PCE:	7.78

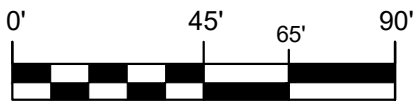


EXTERIOR OIL-WATER SEPARATOR AND 550-GALLON WASTE OIL TANK MOUNTED ON CONCRETE PAD

FORMER LOCATION OF 4,000-GALLON GASOLINE TANKS

7,500-GALLON HEATING OIL UST

GENERATOR ON CONCRETE PAD



1" = APPROXIMATELY 45 FEET

* PCE = TETRACHLOROETHENE
* TCE = TRICHLOROETHENE
* ALL SAMPLE RESULTS MEASURED IN PARTS PER MILLION (PPM)

ADDRESS: 27-10 49TH AVENUE
LONG ISLAND CITY
QUEENS, NEW YORK

TITLE: **FIGURE 6A - SOIL RESULTS**
VOLATILE ORGANIC COMPLUND RESULTS

JOB NO. 37321 CREATED BY: SD DATE: 12/28/2018

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CONTAMINANT	SOIL STANDARDS		
	RESTRICTED USE SOIL CLEANUP OBJECTIVES - INDUSTRIAL	RESTRICTED USE SOIL CLEANUP OBJECTIVES - PROTECTION OF GROUNDWATER	RESTRICTED USE SOIL CLEANUP OBJECTIVES - COMMERCIAL
1,4-Dioxane	250	0.1	130
Acetone	1,000	0.05	500
2-Butanone (MEK)	1,000	0.3	500
Benzene	89	0.06	44
PCE	300	1.3	150
TCE	400	0.47	200

LEGEND:

- - - PROPERTY BOUNDARY
- FENCE
- SOIL BORING LOCATION
- SOIL BORING LOCATION WITH NO EXCEEDANCES
- SOIL BORING NOT ANALYZED
- FLOOR DRAIN
- OIL-WATER SEPARATOR
- TROUGH DRAIN

SB-33A	SB-31A	SB-32A	SB-21
Date Sampled: 12/13/2017 Depth: 7.5/8'	Date Sampled: 12/13/2017 Depth: 7.5/8'	Date Sampled: 12/13/2017 Depth: 7.5/8'	Date Sampled: 11/10/2017 Depth: 11/11.5'
Benzo[a]anthracene 3.64	Benzo[a]anthracene 41.2	Benzo[a]anthracene 2.20	2-Methylnaphthalene 15.7
Chrysene 3.46	Chrysene 36.8	Chrysene 2.18	
Benzo[b]fluoranthene 2.68	Benzo[b]fluoranthene 25.7	Benzo[b]fluoranthene 1.45	
Benzo[k]fluoranthene 2.28	Benzo[k]fluoranthene 20.8	Benzo[k]fluoranthene 1.27	
Benzo[a]pyrene 3.17	Benzo[a]pyrene 26.1	Benzo[a]pyrene 1.62	
Indeno[1,2,3-cd]pyrene 1.54	Indeno[1,2,3-cd]pyrene 14.1	Indeno[1,2,3-cd]pyrene 0.982	
Dibenz[a,h]anthracene 0.693	Dibenz[a,h]anthracene 5.63	Dibenz[a,h]anthracene 0.378	

SB-35A
Date Sampled: 12/13/2017 Depth: 7.5/8'
Chrysene 1.12
Benzo[b]fluoranthene 1.63
Benzo[k]fluoranthene 1.14
Benzo[a]pyrene 1.44
Indeno[1,2,3-cd]pyrene 2.30
Dibenz[a,h]anthracene 0.911

SB-35
Date Sampled: 12/18/2017 Depth: 2/2.5'
Benzo[a]anthracene 1.14
Chrysene 1.14

SB-32
Date Sampled: 12/18/2017 Depth: 2/2.5'
Benzo[a]anthracene 1.86
Chrysene 1.82
Benzo[b]fluoranthene 1.24
Benzo[k]fluoranthene 0.995
Benzo[a]pyrene 1.18
Indeno[1,2,3-cd]pyrene 0.573

SB-29
Date Sampled: 12/13/2017 Depth: 8'
Benzo[a]anthracene 1.33
Chrysene 1.41
Indeno[1,2,3-cd]pyrene 0.528

SB-19
Date Sampled: 10/24/2017 Depth: 3.5/4'
Benzo[a]anthracene 1.66
Chrysene 1.71
Benzo[k]fluoranthene 0.943
Benzo[a]pyrene 1.09
Indeno[1,2,3-cd]pyrene 0.674

SB-26
Date Sampled: 12/13/2017 Depth: 8'
Benzo[a]anthracene 1.01
Chrysene 1.09

SB-1
Date Sampled: 10/23/2017 Depth: 7.5/8'
Benzo[a]anthracene 2.29
Chrysene 2.04
Benzo[k]fluoranthene 1.09
Benzo[a]pyrene 1.20
Indeno[1,2,3-cd]pyrene 0.707
Dibenz[a,h]anthracene 0.332

SB-2
Date Sampled: 10/23/2017 Depth: 15.5/16'
Benzo[a]anthracene 1.72
Chrysene 2.89
Dibenz[a,h]anthracene 0.477

SB-31		
Date Sampled: 12/18/2017	12/18/2017	12/18/2017
Depth: 2/2.5'	8/8.5'	
Benzo[a]anthracene 2.63	2.54	
Chrysene 3.13	2.53	
Benzo[b]fluoranthene 1.94	1.62	
Benzo[k]fluoranthene 1.98	1.43	
Benzo[a]pyrene 1.73	1.54	
Indeno[1,2,3-cd]pyrene 1.04	0.788	
Dibenz[a,h]anthracene 0.403	0.230	

* ALL SAMPLE RESULTS MEASURED IN PARTS PER MILLION (PPM)

CONTAMINANT	SOIL STANDARDS		
	RESTRICTED USE SOIL CLEANUP OBJECTIVES - INDUSTRIAL	RESTRICTED USE SOIL CLEANUP OBJECTIVES - PROTECTION OF GROUNDWATER	RESTRICTED USE SOIL CLEANUP OBJECTIVES - COMMERCIAL
2-Methylnaphthalene	NS	NS	NS
Benzo[a]anthracene	11	1	5.6
Chrysene	110	1	56
Benzo[b]fluoranthene	11	1.7	5.6
Benzo[k]fluoranthene	110	1.7	56
Benzo[a]pyrene	1.1	22	1
Indeno[1,2,3-cd]pyrene	11	8.2	5.6
Dibenz[a,h]anthracene	1.1	1,000	0.56

SB-14
Date Sampled: 10/24/2017 Depth: 3.5/4'
Benzo[a]anthracene 2.87
Chrysene 2.77
Benzo[b]fluoranthene 1.55
Benzo[k]fluoranthene 1.67
Benzo[a]pyrene 1.97
Indeno[1,2,3-cd]pyrene 1.22
Dibenz[a,h]anthracene 0.370

SB-34
Date Sampled: 12/18/2017 Depth: 2/2.5'
Benzo[a]anthracene 1.81
Chrysene 2.08
Benzo[b]fluoranthene 1.21
Benzo[k]fluoranthene 1.22
Benzo[a]pyrene 1.12

SB-37
Date Sampled: 12/18/2017 Depth: 2/2.5'
Benzo[a]anthracene 1.55
Chrysene 1.36
Benzo[k]fluoranthene 1.07

SB-30
Date Sampled: 12/13/2017 Depth: 8'
Benzo[a]anthracene 1.22
Chrysene 1.32
Indeno[1,2,3-cd]pyrene 0.613

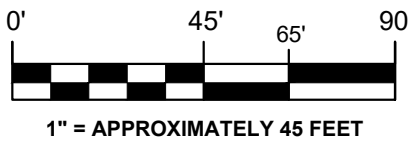
SB-20
Date Sampled: 10/24/2017 Depth: 7.5/8'
Benzo[a]anthracene 1.82
Chrysene 1.91
Benzo[b]fluoranthene 1.29
Benzo[k]fluoranthene 1.31
Benzo[a]pyrene 1.39
Indeno[1,2,3-cd]pyrene 1.04
Dibenz[a,h]anthracene 0.363

SB-13
Date Sampled: 10/24/2017 Depth: 3.5/4'
Benzo[a]anthracene 1.07
Chrysene 1.13
Benzo[k]fluoranthene 0.806

SB-7
Date Sampled: 10/23/2017 Depth: 10/10.5'
Benzo[a]anthracene 5.03
Chrysene 5.16
Benzo[b]fluoranthene 3.11
Benzo[k]fluoranthene 3.27
Benzo[a]pyrene 3.42
Indeno[1,2,3-cd]pyrene 2.85
Dibenz[a,h]anthracene 0.74

SB-9
Date Sampled: 10/23/2017 Depth: 11.5/12'
Benzo[a]anthracene 5.92
Chrysene 5.13
Benzo[b]fluoranthene 3.59
Benzo[k]fluoranthene 3.56
Benzo[a]pyrene 4.31
Indeno[1,2,3-cd]pyrene 2.65
Dibenz[a,h]anthracene 1.03

SB-10
Date Sampled: 10/23/2017 Depth: 11.5/12'
Benzo[a]anthracene 1.12
Chrysene 1.13

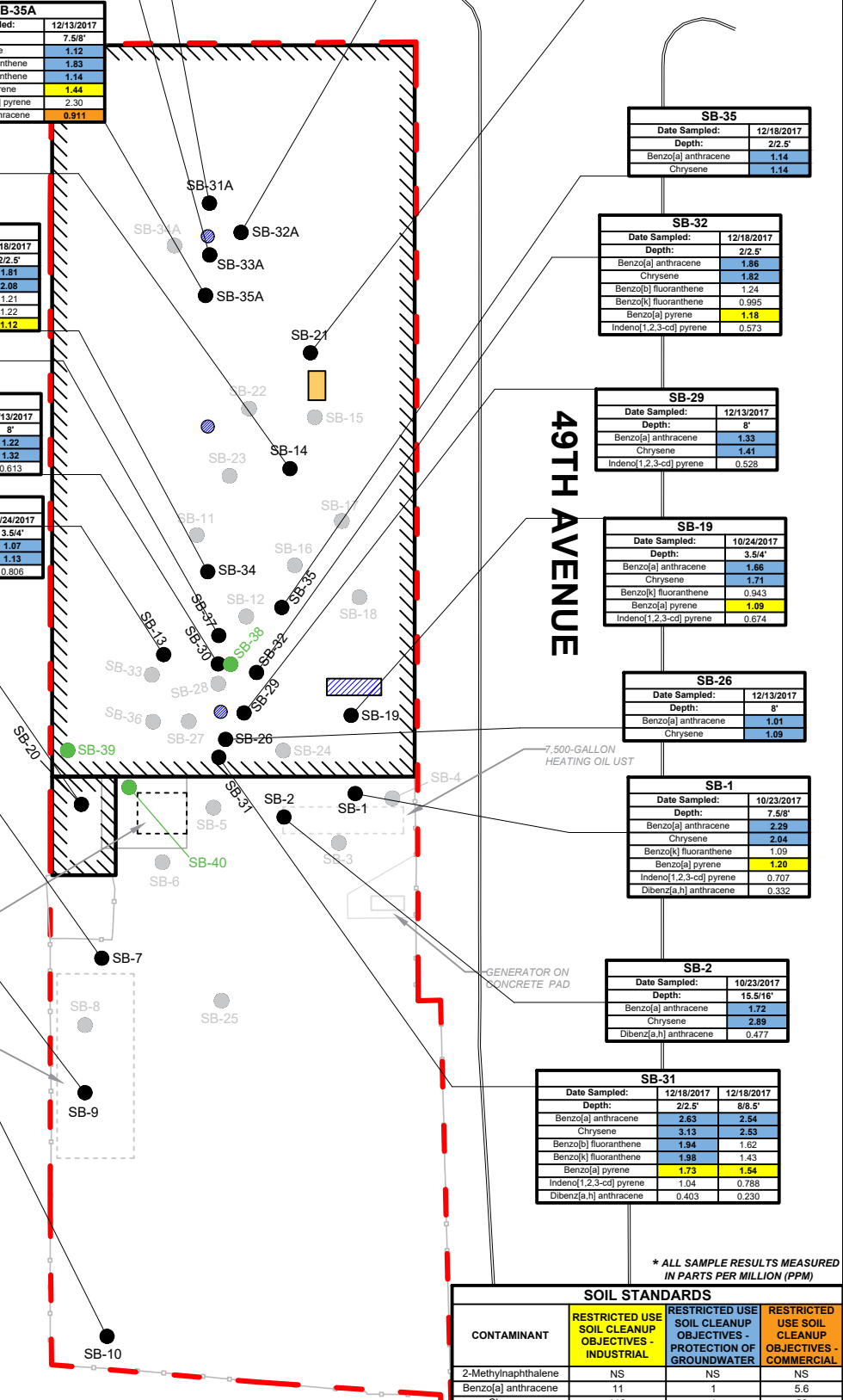


ADDRESS: 27-10 49TH AVENUE
LONG ISLAND CITY
QUEENS, NEW YORK

FIGURE 6B
SEMIVOLATILE ORGANIC COMPOUND RESULTS

JOB NO. 37321 CREATED BY: SD DATE: 12/17/2018

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LEGEND:

- - - PROPERTY BOUNDARY
- FENCE
- SOIL BORING LOCATION
- SOIL BORING NOT ANALYZED
- FLOOR DRAIN
- OIL-WATER SEPARATOR
- TROUGH DRAIN

27TH STREET

SB-34		
Date Sampled:	12/18/2017	12/18/2017
Depth:	2/2.5'	8/8.5'
Copper	322	15.1
Iron	26,400	19,700
Lead	592	34.3
Mercury	0.422	0.063
Nickel	44.0	17.9
Zinc	2,290	53.5

SB-35		
Date Sampled:	12/18/2017	12/18/2017
Depth:	2/2.5'	8/8.5'
Aluminum	9,100	10,100
Arsenic	78.4	4.28
Barium	696	67.7
Iron	15,200	18,400
Lead	620	79.7
Mercury	0.421	0.091
Zinc	470	58.6

SB-37		
Date Sampled:	12/18/2017	12/18/2017
Depth:	2/2.5'	8/8.5'
Barium	680	84.0
Copper	147	19.3
Iron	30,900	16,000
Lead	761	94.3
Mercury	0.467	0.274
Zinc	1,120	71.4

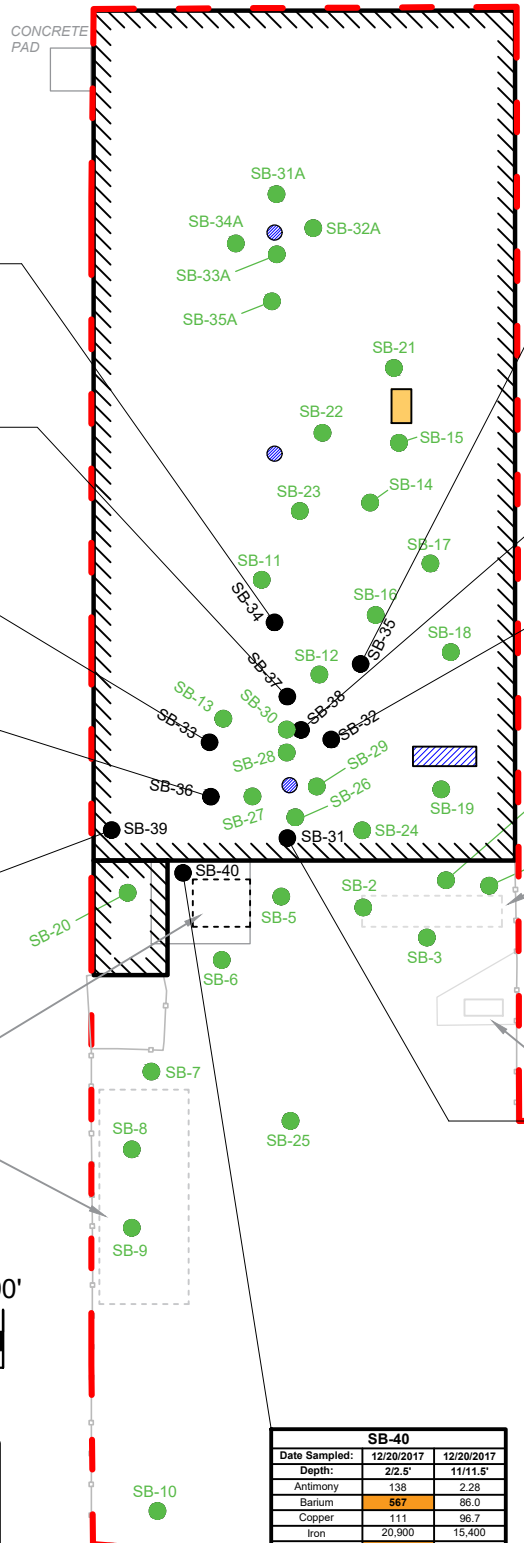
SB-38		
Date Sampled:	12/20/2017	11/11/15'
Depth:	2/2.5'	11/11.5'
Barium	1,310	67.6
Copper	56.4	21.1
Iron	16,500	22,600
Lead	613	9.22
Mercury	0.477	0.055
Zinc	927	66.3

SB-33		
Date Sampled:	12/18/2017	12/18/2017
Depth:	2/2.5'	8/8.5'
Arsenic	21.7	19.2
Barium	707	508
Iron	12,100	20,000
Lead	2,730	2,360
Mercury	1.59	1.41
Zinc	1,260	963

SB-32			
Date Sampled:	12/18/2017	12/18/2017	12/12/15'
Depth:	2/2.5'	8/8.5'	12/12.5'
Aluminum	10,800	7,010	10,000
Arsenic	14.3	6.04	3.44
Barium	935	91.0	45.6
Copper	172	25.4	16.8
Iron	29,400	16,200	17,300
Lead	970	98.7	38.0
Mercury	0.650	0.156	0.066
Zinc	1,760	119	53.1

SB-36		
Date Sampled:	12/18/2017	12/18/2017
Depth:	2/2.5'	8/8.5'
Barium	524	52.6
Iron	14,900	17,400
Lead	1,020	16.9
Zinc	587	53.8

SB-39		
Date Sampled:	12/20/2017	12/20/2017
Depth:	2/2.5'	11/11.5'
Aluminum	7,940	11,400
Arsenic	16.2	7.80
Barium	865	244
Copper	192	41.5
Iron	36,600	20,000
Lead	1,950	723
Mercury	1.17	0.464
Nickel	34.7	18.7
Zinc	1,420	396



EXTERIOR OIL-WATER SEPARATOR AND 550-GALLON WASTE OIL TANK MOUNTED ON CONCRETE PAD

FORMER LOCATION OF 4,000-GALLON GASOLINE TANKS

7,500-GALLON HEATING OIL UST

GENERATOR ON CONCRETE PAD



1" = APPROXIMATELY 45 FEET

SB-31		
Date Sampled:	12/18/2017	12/18/2017
Depth:	2/2.5'	8/8.5'
Barium	385	218
Iron	13,200	19,700
Lead	566	167
Mercury	0.346	0.241
Zinc	1,070	246

SB-40		
Date Sampled:	12/20/2017	12/20/2017
Depth:	2/2.5'	11/11.5'
Antimony	138	2.28
Barium	567	86.0
Copper	111	96.7
Iron	20,900	15,400
Lead	3,850	195
Mercury	0.692	0.169
Zinc	1,100	297

* NS = NO STANDARD
* ALL SAMPLE RESULTS MEASURED IN PARTS PER MILLION (PPM)

CONTAMINANT	SOIL STANDARDS		
	RESTRICTED USE SOIL CLEANUP OBJECTIVES - INDUSTRIAL	RESTRICTED USE SOIL CLEANUP OBJECTIVES - PROTECTION OF GROUNDWATER	RESTRICTED USE SOIL CLEANUP OBJECTIVES - COMMERCIAL
Aluminum	NS	NS	NS
Antimony	NS	NS	NS
Arsenic	16	16	16
Barium	10,000	820	400
Copper	10,000	1,720	270
Iron	NS	NS	NS
Lead	3,900	450	1,000
Mercury	5.7	0.73	2.8
Nickel	10,000	130	310
Zinc	10,000	2,480	10,000

ADDRESS: 27-10 49TH AVENUE
LONG ISLAND CITY
QUEENS, NEW YORK

TITLE: FIGURE 6C - SOIL RESULTS
METALS RESULTS

JOB NO. 37321
CREATED BY: SD
DATE: 12/28/2018

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LEGEND:

- PROPERTY BOUNDARY
- FENCE
- MONITORING WELL LOCATION
- FLOOR DRAIN
- OIL-WATER SEPARATOR
- TROUGH DRAIN

MW-9	
Date Sampled:	11/27/2018
Benzene	0.2
PCE	0.2
TCE	0.2
Magnesium	2,770
Manganese	168
Sodium	26,500
Selenium	44.4
Magnesium (Dissolved)	42,400
Manganese (Dissolved)	914
Sodium (Dissolved)	2,850,000
Selenium (Dissolved)	54.5
2,4,5-TP (Silvex)	5
PCBs	0.0513

MW-1		
Date Sampled:	11/29/2017	11/28/2018
Benzene	0.708	0.2
PCE	0.679	0.2
TCE	ND	0.2
Magnesium	~	161,000
Manganese	~	2,840
Sodium	~	1,260,000
Selenium	~	20.6
Magnesium (Dissolved)	~	115,000
Manganese (Dissolved)	~	1,290
Sodium (Dissolved)	~	931,000
Selenium (Dissolved)	~	32.1
2,4,5-TP (Silvex)	~	5
PCBs	ND	0.0513

MW-2		
Date Sampled:	11/29/2017	11/28/2018
Benzene	ND	0.2
PCE	0.484	2.0
TCE	ND	0.360
Magnesium	~	272,000
Sodium	~	1,140,000
Selenium	~	37.1
Magnesium (Dissolved)	~	157,000
Manganese (Dissolved)	~	2,030
Sodium (Dissolved)	~	835,000
Selenium (Dissolved)	~	43.1
2,4,5-TP (Silvex)	~	5
PCBs	ND	0.0513

MW-4		
Date Sampled:	11/27/2018	11/27/2018
Benzene	0.2	0.2
PCE	0.68	0.64
TCE	0.2	0.2
Lead	728	14
Magnesium	404,000	44,200
Manganese	1,300	963
Sodium	1,380,000	1,210,000
Selenium	28.8	29
Magnesium (Dissolved)	108,000	107,000
Manganese (Dissolved)	779	797
Sodium (Dissolved)	929,000	930,000
Selenium (Dissolved)	37.6	26
2,4,5-TP (Silvex)	5	5
PCBs	0.0513	0.0513

MW-10	
Date Sampled:	11/27/2018
Benzene	0.2
PCE	0.26
TCE	0.26
Magnesium	1,860
Manganese	5.56
Sodium	20,200
Selenium	40.8
Magnesium (Dissolved)	156,000
Manganese (Dissolved)	1,690
Sodium (Dissolved)	1,170,000
Selenium (Dissolved)	63.6
2,4,5-TP (Silvex)	5
PCBs	0.0513

MW-7	
Date Sampled:	11/27/2018
Benzene	0.2
PCE	0.71
TCE	0.21
Magnesium	18,000
Sodium	94,700
Selenium	73.8
Magnesium (Dissolved)	287,000
Sodium (Dissolved)	4,800,000
Selenium (Dissolved)	83.6
2,4,5-TP (Silvex)	5
PCBs	0.0513

MW-3		
Date Sampled:	11/29/2017	11/28/2018
Benzene	0.689	0.2
PCE	ND	0.62
TCE	ND	1.1
Magnesium	~	278,000
Sodium	~	3,890,000
Selenium	~	50.3
Magnesium (Dissolved)	~	251,000
Manganese (Dissolved)	~	929
Sodium (Dissolved)	~	5,230,000
Selenium (Dissolved)	~	77.7
2,4,5-TP (Silvex)	~	5
PCBs	ND	0.0513

MW-5	
Date Sampled:	11/28/2018
Benzene	0.37
PCE	3.3
TCE	0.2
Magnesium	159,000
Manganese	1,730
Sodium	2,340,000
Selenium	55.5
Magnesium (Dissolved)	173,000
Manganese (Dissolved)	2,770
Sodium (Dissolved)	2,870,000
Selenium (Dissolved)	41.1
2,4,5-TP (Silvex)	5
PCBs	0.0513

MW-6	
Date Sampled:	11/27/2018
Benzene	0.2
PCE	0.53
TCE	0.2
Magnesium	55.6
Sodium	2,180
Selenium	60.5
Magnesium (Dissolved)	275,000
Sodium (Dissolved)	4,570,000
Selenium (Dissolved)	80.5
2,4,5-TP (Silvex)	5
PCBs	0.0513

MW-8	
Date Sampled:	11/27/2018
Benzene	0.2
PCE	1.2
TCE	0.2
Antimony	4.58
Magnesium	15,800
Manganese	511
Sodium	86,400
Selenium	103
Antimony (Dissolved)	4.25
Magnesium (Dissolved)	404,000
Manganese (Dissolved)	1,160
Sodium (Dissolved)	5,960,000
Selenium (Dissolved)	115
2,4,5-TP (Silvex)	5
PCBs	0.0513

TERIOR OIL-WATER SEPARATOR AND 550-GALLON OIL TANK MOUNTED ON CONCRETE PAD

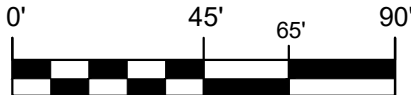
FORMER LOCATION OF 4,000-GALLON GASOLINE TANKS

7,500 GALLON HEATING OIL USE

GENERATOR ON CONCRETE PAD

- * ~ = NOT ANALYZED
- * PCE = TETRACHLOROETHENE
- * TCE = TRICHLOROETHENE
- * ND = NON-DETECT
- * ALL SAMPLE RESULTS MEASURED IN PARTS PER BILLION (PPB)

NYDEC STANDARDS	
CONTAMINANT	AMBIENT WATER QUALITY STANDARDS
Benzene	1.0
PCE	5.0
TCE	5.0
Antimony	3.0
Barium	1,000
Chromium	50
Copper	200
Lead	25
Magnesium	35,000
Manganese	300
Sodium	20,000
Selenium	10
2,4,5-TP (Silvex)	0.26
PCBs	0.09



1" = APPROXIMATELY 45 FEET

ADDRESS: 27-10 49TH AVENUE
LONG ISLAND CITY
QUEENS, NEW YORK

TITLE: **FIGURE 7**
GROUNDWATER RESULTS MAP

JOB NO. 37321 CREATED BY: SD DATE: 1/2/2019

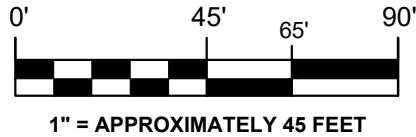
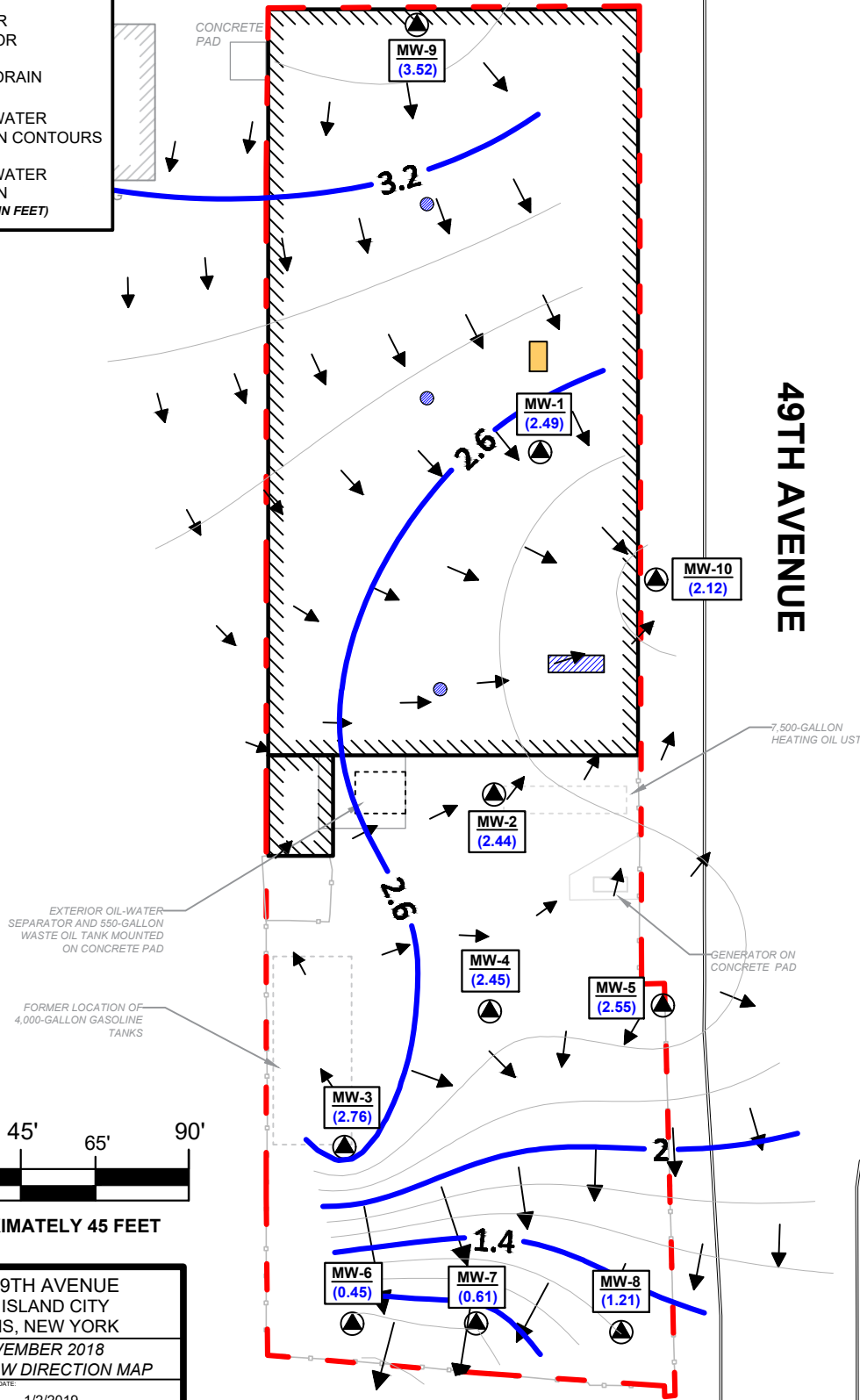
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LEGEND:

- PROPERTY BOUNDARY
- FENCE
- MONITORING WELL LOCATION
- FLOOR DRAIN
- OIL-WATER SEPARATOR
- TROUGH DRAIN
- GROUNDWATER ELEVATION CONTOURS
- GROUNDWATER ELEVATION (MEASURED IN FEET)







27TH STREET

49TH AVENUE



	ADDRESS: 27-10 49TH AVENUE LONG ISLAND CITY QUEENS, NEW YORK
TITLE: FIGURE 8 - NOVEMBER 2018 GROUNDWATER FLOW DIRECTION MAP	
JOB NO. 37321	CREATED BY: SD
DATE: 1/2/2019	
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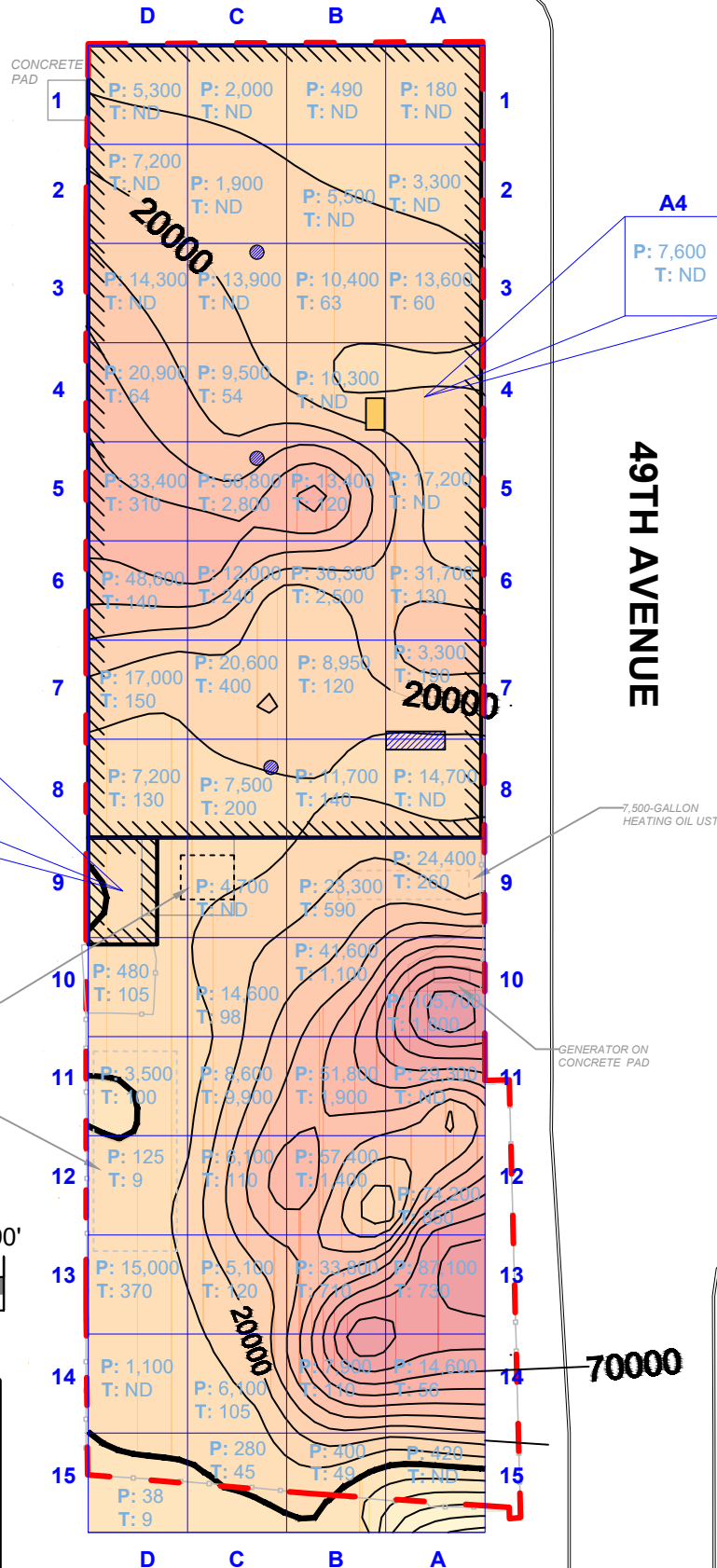
LEGEND:

-  PROPERTY BOUNDARY
-  FENCE
-  VAPOR SAMPLE LOCATION
-  FLOOR DRAIN
-  OIL-WATER SEPARATOR
-  TROUGH DRAIN

P: 14,300 **10/30/2018 & 11/1/2018**
T: ND **SOIL VAPOR SAMPLE**
RESULTS

P = TETRACHLOROETHENE (PCE)
T = TRICHLOROETHENE (TCE)
ND = NON-DETECT

27TH STREET



D9
P: 4,600
T: ND

A4
P: 7,600
T: ND

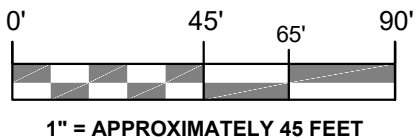
EXTERIOR OIL-WATER SEPARATOR AND 550-GALLON WASTE OIL TANK MOUNTED ON CONCRETE PAD

FORMER LOCATION OF 4,000-GALLON GASOLINE TANKS

7,500-GALLON HEATING OIL UST

GENERATOR ON CONCRETE PAD

70000



ADDRESS: 27-10 49TH AVENUE
LONG ISLAND CITY
QUEENS, NEW YORK

TITLE: FIGURE 9A - PCE SOIL VAPOR ISOPLETH AND VAPOR TESTING RESULTS

JOB NO.: 37321 **CREATED BY:** SD **DATE:** 12/28/2018

Atlantic Environmental Solutions, Inc.
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LEGEND:

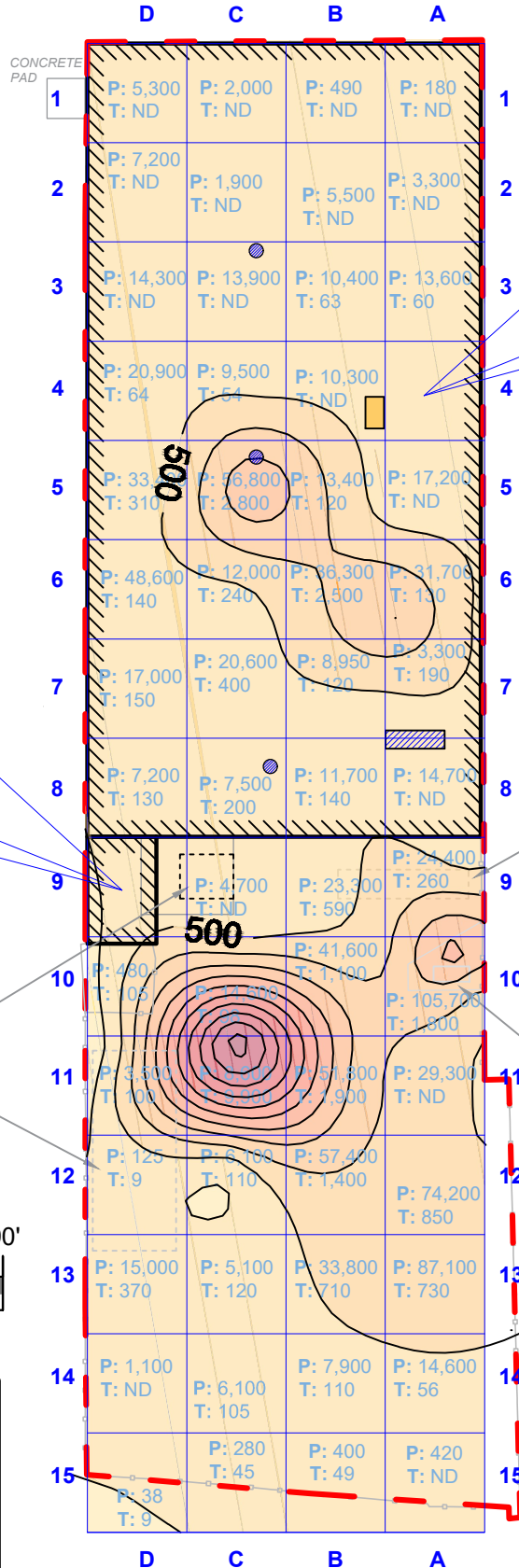
- - - - PROPERTY BOUNDARY
- FENCE
- VAPOR SAMPLE LOCATION
- FLOOR DRAIN
- OIL-WATER SEPARATOR
- TROUGH DRAIN

P: 14,300
T: ND **10/30/2018 & 11/1/2018**
SOIL VAPOR SAMPLE
RESULTS

P = TETRACHLOROETHENE (PCE)
T = TRICHLOROETHENE (TCE)
ND = NON-DETECT

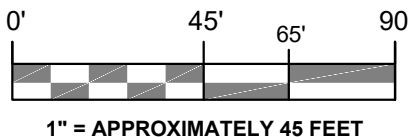
27TH STREET

49TH AVENUE



D9
P: 4,600
T: ND

A4
P: 7,600
T: ND



ADDRESS: **27-10 49TH AVENUE**
LONG ISLAND CITY
QUEENS, NEW YORK

TITLE: **FIGURE 9B - TCE SOIL VAPOR**
ISOPLETH AND VAPOR TESTING RESULTS

JOB NO. **37321** CREATED BY: **SD** DATE: **12/28/2018**

Atlantic Environmental Solutions, Inc.
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LEGEND:

- - - - PROPERTY BOUNDARY
- FENCE
- SOIL VAPOR SAMPLE LOCATION
- FLOOR DRAIN
- OIL-WATER SEPARATOR
- TROUGH DRAIN

*PCE = TETRACHLOROETHENE
 *TCE = TRICHLOROETHENE
 *ALL SAMPLE RESULTS MEASURED IN MICROGRAMS PER LITER (ug/m³)

27TH STREET

D1	
Date:	11/7/2018
PCE	740
TCE	5.9

SV3-A	
Date:	5/15/2018
PCE	1,300
TCE	26

SV2-A	
Date:	5/15/2018
PCE	2,700
TCE	340

B6	
Date:	11/7/2018
PCE	7,400
TCE	1,100

C3	
Date:	11/7/2018
PCE	2,000
TCE	29

C5	
Date:	11/7/2018
PCE	11,000
TCE	1,100

SV-4	
Date:	5/15/2018
PCE	42,000
TCE	4,200

C11	
Date:	11/7/2018
PCE	15
TCE	0.55

SV1-A	
Date:	5/15/2018
PCE	2,100
TCE	85

A10	
Date:	11/7/2018
PCE	22,000
TCE	860

B12	
Date:	11/7/2018
PCE	8,900
TCE	490

SV-5	
Date:	5/15/2018
PCE	21,000
TCE	1,600

B14	
Date:	11/7/2018
PCE	6,200
TCE	280

NYSDOH SOIL VAPOR STANDARDS	
CONTAMINANT	AIR GUIDANCE VALUE
PCE	100
TCE	5.0

CRETE

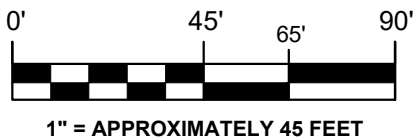
49TH AVENUE

7,500-GALLON HEATING OIL UST

GENERATOR ON CONCRETE PAD

EXTERIOR OIL-WATER SEPARATOR AND 550-GALLON WASTE OIL TANK MOUNTED ON CONCRETE PAD

FORMER LOCATION OF 4,000-GALLON GASOLINE TANKS



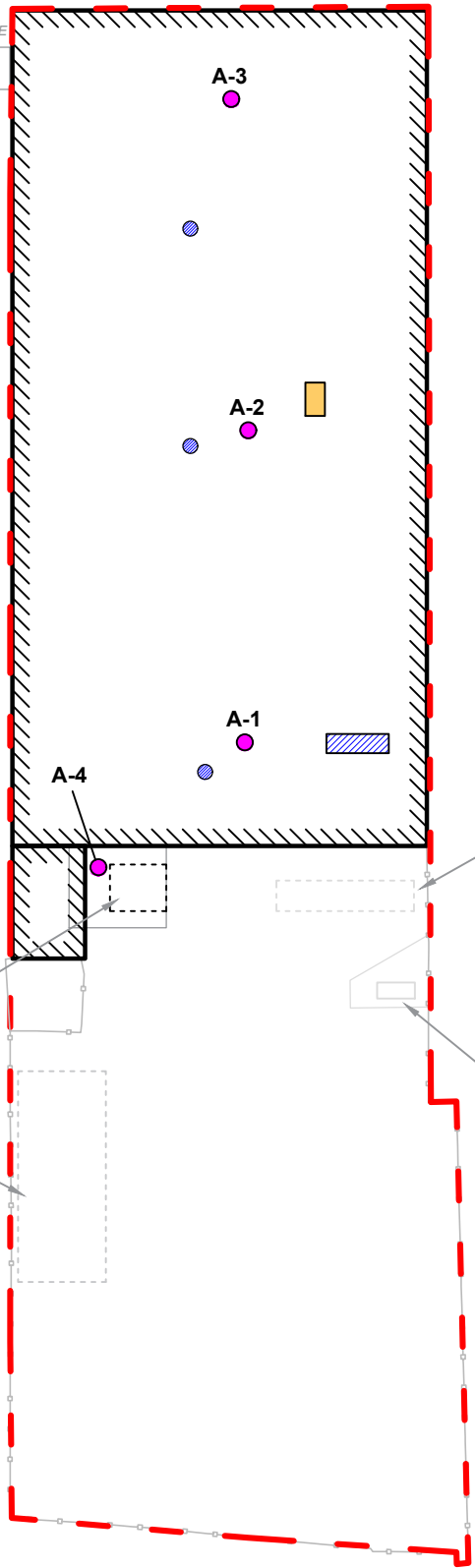
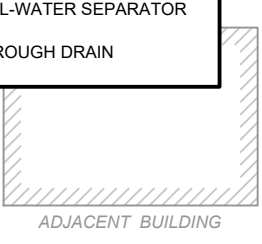
ADDRESS: 27-10 49TH AVENUE LONG ISLAND CITY QUEENS, NEW YORK	
TITLE: FIGURE 10 SUB-SLAB SOIL GAS SAMPLE LOCATIONS AND RESULTS	
JOB NO. 37321	DATE: 12/28/2018
CREATED BY: SD	
 Atlantic Environmental Solutions, Inc. <small>5 Marine View Plaza, Suite 300 • Holbrook, New Jersey 07733 • P 201 876 3400 • F 201 876 9553</small>	

LEGEND:

- - - PROPERTY BOUNDARY
- FENCE
- AMBIENT AIR SAMPLE LOCATION
- FLOOR DRAIN
- OIL-WATER SEPARATOR
- TROUGH DRAIN

27TH STREET

49TH AVENUE

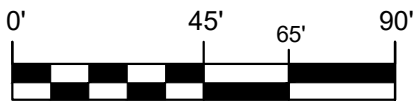


EXTERIOR OIL-WATER SEPARATOR AND 550-GALLON WASTE OIL TANK MOUNTED ON CONCRETE PAD

FORMER LOCATION OF 4,000-GALLON GASOLINE TANKS

7,500-GALLON HEATING OIL UST

GENERATOR ON CONCRETE PAD



1" = APPROXIMATELY 45 FEET

	ADDRESS: 27-10 49TH AVENUE LONG ISLAND CITY QUEENS, NEW YORK	
TITLE:	FIGURE 11 AMBIENT AIR SAMPLE LOCATIONS	
JOB NO. 37321	CREATED BY: SD	DATE: 12/28/2018
 Atlantic Environmental Solutions, Inc. <small>5 Marine View Plaza, Suite 300 • Holbrook, New Jersey 07733 • P 201.876.3400 • F 201.876.9553</small>		

LEGEND:

- - - PROPERTY BOUNDARY
- FENCE
- FLOOR DRAIN
- OIL-WATER SEPARATOR
- TROUGH DRAIN
- OCTOBER 2017 - MAY 2018 SOIL BORING LOCATION WITH EXCEEDANCES
- OCTOBER 2017 - MAY 2018 SOIL BORING LOCATION WITH NO EXCEEDANCES
- NOVEMBER 2018 SOIL BORING LOCATION WITH EXCEEDANCES
- NOVEMBER 2018 SOIL BORING LOCATION WITH NO EXCEEDANCES

*PCE = TETRACHLOROETHENE
 *ALL SAMPLE RESULTS MEASURED IN PARTS PER MILLION (PPM)

27TH STREET

SB-58			
Date Sampled:	11/13/2018	11/13/2018	11/13/2018
Depth:	2/2.5'	9.5/10'	8/8.5'
Acetone	0.120	0.011	0.0120
PCE	0.00290	9.6	0.00580

Sample ID:	SB-50A	SB-50C	SB-50B
Date Sampled:	5/24/2018	5/24/2018	5/24/2018
Depth:	2/2.5'	6.5/7'	7.5/8'
1,4-Dioxane	0.100	0.110	0.0500
Acetone	0.0280	0.0640	0.00600
PCE	21	0.029	0.007

Sample ID:	SB-48A	SB-48B
Date Sampled:	5/24/2018	5/24/2018
Depth:	2/2.5'	7.5/8'
PCE	39	0.0021

SB-63	
Date Sampled:	11/13/2018
Depth:	8/8.5'
Acetone	0.0510

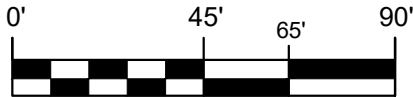
SB-56			
Date Sampled:	11/13/2018	11/13/2018	11/13/2018
Depth:	2/2.5'	7/7.5'	8/8.5'
PCE	0.0170	14	0.0950

SB-57			
Date Sampled:	11/13/2018	11/13/2018	11/13/2018
Depth:	2/2.5'	6.5/7'	8/8.5'
PCE	0.0130	0.100	12

Sample ID:	SB-43A	SB-43B
Date Sampled:	5/15/2018	5/15/2018
Depth:	2/2.5'	10/10.5'
PCE	ND	0.0072

Sample ID:	SB-42A	SB-42B
Date Sampled:	5/15/2018	5/15/2018
Depth:	2/2.5'	10/10.5'
PCE	ND	0.0004

CONTAMINANT	SOIL STANDARDS		
	RESTRICTED USE SOIL CLEANUP OBJECTIVES - INDUSTRIAL	RESTRICTED USE SOIL CLEANUP OBJECTIVES - PROTECTION OF GROUNDWATER	RESTRICTED USE SOIL CLEANUP OBJECTIVES - COMMERCIAL
1,4-Dioxane	250	0.1	130
Acetone	1,000	0.05	500
PCE	300	1.3	150



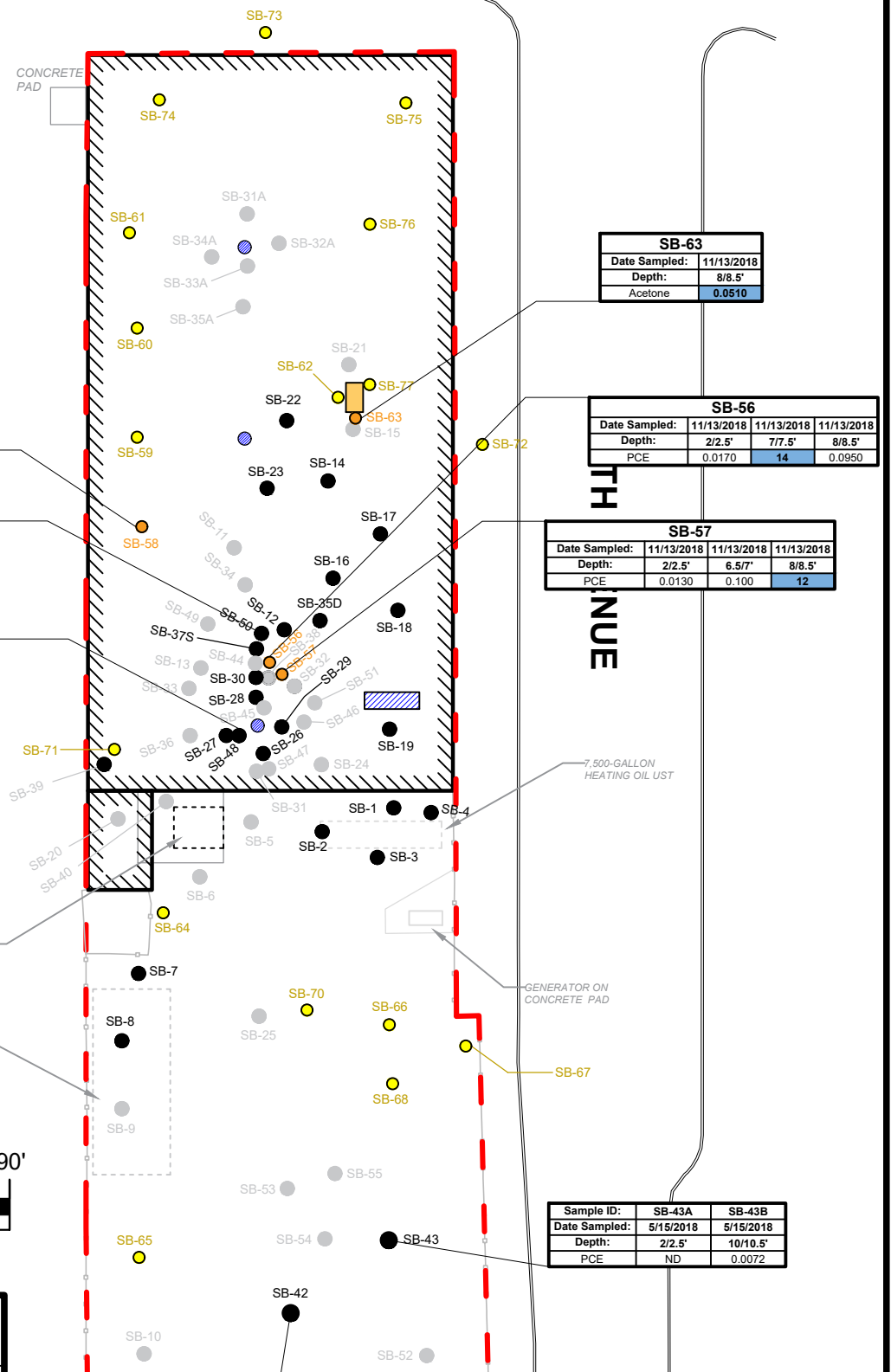
1" = APPROXIMATELY 45 FEET

ADDRESS: 27-10 49TH AVENUE
 LONG ISLAND CITY
 QUEENS, NEW YORK

TITLE: FIGURE 12A - SOIL RESULTS
 VOLATILE ORGANIC COMPOUND RESULTS

JOB NO. 37321 CREATED BY: SD DATE: 12/28/2018

Atlantic Environmental Solutions, Inc.
 8 Marine View Plaza, Suite 300 • Holbrook, New Jersey 07733 • P 201 876 3400 • F 201 876 9553



LEGEND:

- - - PROPERTY BOUNDARY
 - FENCE
 - FLOOR DRAIN
 - OIL-WATER SEPARATOR
 - TROUGH DRAIN
 - OCTOBER 2017 - MAY 2018 SOIL BORING LOCATION WITH EXCEEDANCES
 - OCTOBER 2017 - MAY 2018 SOIL BORING LOCATION WITH NO EXCEEDANCES
 - NOVEMBER 2018 SOIL BORING LOCATION WITH EXCEEDANCES
 - NOVEMBER 2018 SOIL BORING LOCATION WITH NO EXCEEDANCES
 - SOIL BORING NOT ANALYZED
- *ALL SAMPLE RESULTS MEASURED IN PARTS PER MILLION (PPM)

27TH STREET

SB-73			
Date Sampled:	11/13/2018	11/13/2018	11/13/2018
Depth:	22.5'	6.57'	
Benzo[a] anthracene	0.228	1.04	
Chrysene	0.229	1.11	

SB-61			
Date Sampled:	11/13/2018	11/13/2018	11/13/2018
Depth:	22.5'	6/6.5'	8/8.5'
Benzo[a] anthracene	1.84	7.94	3.93
Chrysene	1.82	8.43	4.51
Benzo[a] pyrene	1.78	7.46	4.21
Benzo[b] fluoranthene	1.65	5.89	3.67
Benzo[k] fluoranthene	1.46	6.18	3.61
Indeno[1,2,3-cd] pyrene	1.19	4.62	2.47
Dibenz[a,h] anthracene	0.238	1.58	1.01

SB-77	
Date Sampled:	11/13/2018
Depth:	22.5'
Benzo[a] anthracene	2.55
Chrysene	2.4
Benzo[a] pyrene	2.87
Benzo[b] fluoranthene	2.65
Benzo[k] fluoranthene	2.3
Dibenz[a,h] anthracene	0.997

SB-56	
Date Sampled:	11/13/2018
Depth:	22.5'
Benzo[a] anthracene	1.590
Chrysene	1.560
Benzo[a] pyrene	1.530

SB-59	
Date Sampled:	11/13/2018
Depth:	2/2.5'
Benzo[a] anthracene	19.1
Chrysene	18.1
Benzo[a] pyrene	21
Benzo[b] fluoranthene	17.3
Benzo[k] fluoranthene	13.3
Indeno[1,2,3-cd] pyrene	12.8
Dibenz[a,h] anthracene	2.53

SB-58			
Date Sampled:	11/13/2018	11/13/2018	11/13/2018
Depth:	2/2.5'	9.5/10'	8/8.5'
Benzo[a] anthracene	0.0429	49.1	1.16
Chrysene	0.0429	48.4	1.43
Benzo[a] pyrene	0.0429	47.3	1.18
Benzo[b] fluoranthene	0.0429	39.4	1.15
Benzo[k] fluoranthene	0.0429	29.1	1.17
Indeno[1,2,3-cd] pyrene	0.0429	29.5	0.878
Dibenz[a,h] anthracene	0.0429	8.71	0.282

SB-71		
Date Sampled:	11/13/2018	11/13/2018
Depth:	2/2.5'	6.57'
Benzo[a] anthracene	1.10	12.50
Chrysene	1.2	13.50
Benzo[a] pyrene	1.15	12.20
Benzo[b] fluoranthene	1.02	11.20
Benzo[k] fluoranthene	1.0	10.50
Indeno[1,2,3-cd] pyrene	0.832	7.71
Dibenz[a,h] anthracene	0.197	2.78

SB-64		
Date Sampled:	11/13/2018	11/13/2018
Depth:	2/2.5'	6/6.5'
Benzo[a] anthracene	0.327	1.95
Chrysene	0.327	2.18
Benzo[a] pyrene	0.327	1.98
Benzo[k] fluoranthene	0.327	1.73

SB-67	
Date Sampled:	11/13/2018
Depth:	2/2.5'
Benzo[a] anthracene	3.52
Chrysene	4.81
Benzo[a] pyrene	3.9
Benzo[b] fluoranthene	4.21
Benzo[k] fluoranthene	3.88
Dibenz[a,h] anthracene	0.886

SB-65	
Date Sampled:	11/13/2018
Depth:	2/2.5'
Benzo[a] anthracene	20.3
Chrysene	20.8
Benzo[a] pyrene	18.7
Benzo[b] fluoranthene	14.4
Benzo[k] fluoranthene	17.2
Indeno[1,2,3-cd] pyrene	10.7
Dibenz[a,h] anthracene	4.28

SB-69		
Date Sampled:	11/13/2018	11/13/2018
Depth:	2/2.5'	6.57'
Benzo[a] anthracene	0.909	1.47
Chrysene	1.44	1.91
Benzo[a] pyrene	1.40	2.16
Benzo[b] fluoranthene	1.73	2.35
Dibenz[a,h] anthracene	0.466	0.691

* ALL SAMPLE RESULTS MEASURED IN PARTS PER MILLION (PPM)

SOIL STANDARDS			
CONTAMINANT	RESTRICTED USE SOIL CLEANUP OBJECTIVES - INDUSTRIAL	RESTRICTED USE SOIL CLEANUP OBJECTIVES - PROTECTION OF GROUNDWATER	RESTRICTED USE SOIL CLEANUP OBJECTIVES - COMMERCIAL
2-Methylnaphthalene	NS	NS	NS
Benzo[a] anthracene	11	1	5.6
Chrysene	110	1	56
Benzo[b] fluoranthene	11	1.7	5.6
Benzo[k] fluoranthene	110	1.7	56
Benzo[a] pyrene	1.1	22	1
Indeno[1,2,3-cd] pyrene	11	6.2	5.6
Dibenz[a,h] anthracene	1.1	1,000	0.56

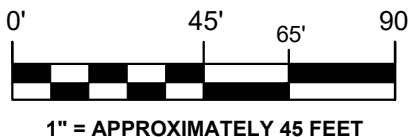
CONCRETE PAD

49TH AVENUE

7,500-GALLON HEATING OIL UST

GENERATOR ON CONCRETE PAD

FORMER LOCATION OF 4,000-GALLON GASOLINE TANKS



ADDRESS: 27-10 49TH AVENUE
LONG ISLAND CITY
QUEENS, NEW YORK

TITLE: **FIGURE 12B - SOIL RESULTS**
SEMIVOLATILE ORGANIC COMPOUND RESULTS

JOB NO. 37321
CREATED BY: SD
DATE: 12/28/2018

Atlantic Environmental Solutions, Inc.
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LEGEND:

- - - PROPERTY BOUNDARY
- FENCE
- FLOOR DRAIN
- OIL-WATER SEPARATOR
- TROUGH DRAIN
- OCTOBER 2017 - MAY 2018 SOIL BORING LOCATION WITH EXCEEDANCES
- OCTOBER 2017 - MAY 2018 SOIL BORING LOCATION WITH NO EXCEEDANCES
- NOVEMBER 2018 SOIL BORING LOCATION WITH EXCEEDANCES
- NOVEMBER 2018 SOIL BORING LOCATION WITH NO EXCEEDANCES
- SOIL BORING NOT ANALYZED

*ALL SAMPLE RESULTS MEASURED IN PARTS PER MILLION (PPM)

SB-74		
Date Sampled:	11/15/2018	11/15/2018
Depth:	2/2.5'	4/4.5'
Barium	587	159
Cadmium	1.16	22.6
Lead	1,770	2,680
Zinc	1,170	6,980

SB-73		
Date Sampled:	11/14/2018	11/14/2018
Depth:	2/2.5'	4/4.5'
Arsenic	9.18	42.6
Barium	421	217
Lead	656	283

SB-75		
Date Sampled:	11/15/2018	11/15/2018
Depth:	2/2.5'	4/4.5'
Lead	268	2,300

SB-76		
Date Sampled:	11/15/2018	11/15/2018
Depth:	2/2.5'	2/2.5'
Lead		514

SB-77		
Date Sampled:	11/15/2018	11/15/2018
Depth:	2/2.5'	2/2.5'
Barium	497	
Copper	1,870	
Lead	1,480	
Nickel	185	
Zinc	14,600	

SB-72		
Date Sampled:	11/14/2018	11/14/2018
Depth:	2/2.5'	4/4.5'
Arsenic	39.6	1.66
Barium	433	134
Lead	1,090	458

SB-61			
Date Sampled:	11/13/2018	11/13/2018	11/13/2018
Depth:	2/2.5'	6/6.5'	8/8.5'
Arsenic	3.91	3.96	19.6
Barium	263	709	573
Lead	596	2,450	1,670

SB-60			
Date Sampled:	11/13/2018	11/13/2018	11/13/2018
Depth:	2/2.5'	4/4.5'	8/8.5'
Barium	244	466	202
Lead	411	772	691

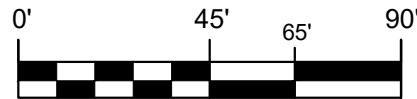
SB-59			
Date Sampled:	11/13/2018	11/13/2018	11/13/2018
Depth:	2/2.5'	2.5/3'	
Barium	279	594	
Copper	181	280	
Lead	897	1,050	

SB-58			
Date Sampled:	11/13/2018	11/13/2018	11/13/2018
Depth:	2/2.5'	9.5/10'	8/8.5'
Barium	20	546	653
Copper	7.2	331	63.2
Lead	2.63	1,220	2,200

SB-71			
Date Sampled:	11/14/2018	11/14/2018	11/14/2018
Depth:	2/2.5'	6.5/7'	
Barium	717	283	
Copper	385	100	
Lead	1,830	531	
Zinc	2,570	588	

SB-64		
Date Sampled:	11/13/2018	11/13/2018
Depth:	2/2.5'	6/6.5'
Barium	14.2	740
Lead	23.9	686
Selenium	11.2	2.79

SB-65		
Date Sampled:	11/13/2018	11/13/2018
Depth:	2/2.5'	
Barium	635	
Lead	1,910	
Mercury	1.75	



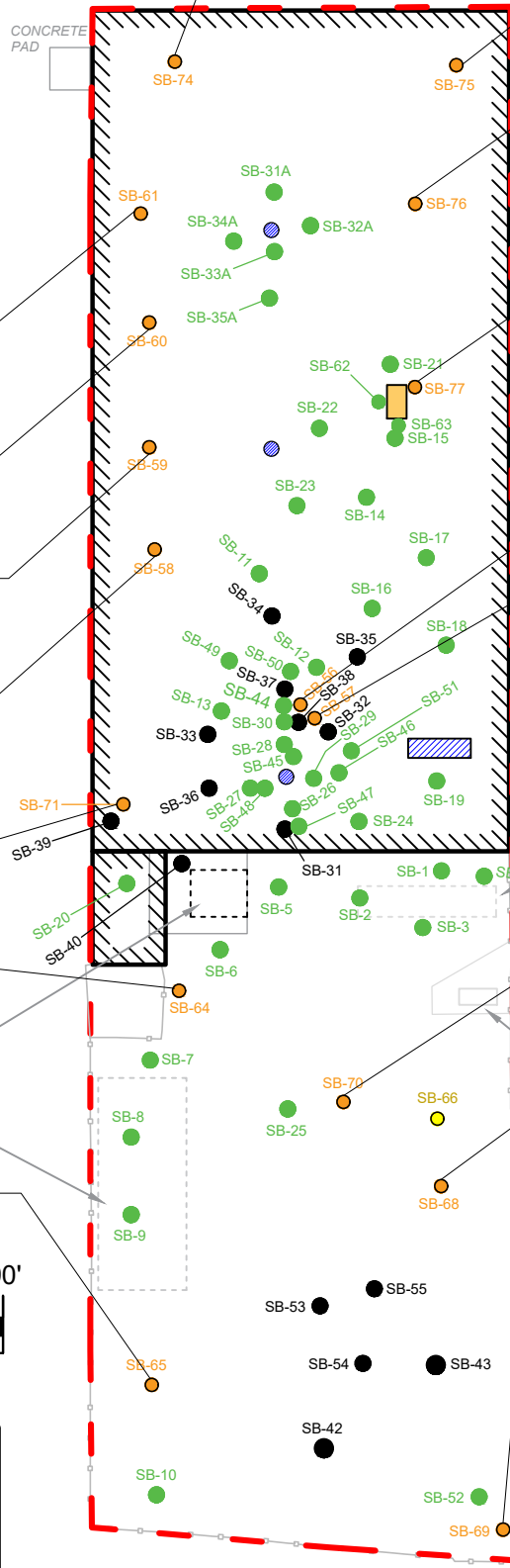
1" = APPROXIMATELY 45 FEET

ADDRESS: 27-10 49TH AVENUE
LONG ISLAND CITY
QUEENS, NEW YORK

TITLE: FIGURE 12C - SOIL RESULTS
METALS RESULTS

JOB NO. 37321 CREATED BY: SD DATE: 12/28/2018

Atlantic Environmental Solutions, Inc.
3 Marine View Plaza, Suite 300 • Holbrook, New Jersey 07733 • P 201.676.3600 • F 201.676.9553



49TH AVENUE

47TH STREET

7,500-GALLON HEATING OIL UST

GENERATOR ON CONCRETE PAD

OIL-WATER SEPARATOR AND 550-GALLON WASTE OIL TANK MOUNTED ON CONCRETE PAD

UNKNOWN LOCATION OF 55-GALLON GASOLINE TANKS

CONTAMINANT	SOIL STANDARDS		
	RESTRICTED USE SOIL CLEANUP OBJECTIVES - INDUSTRIAL	RESTRICTED USE SOIL CLEANUP OBJECTIVES - PROTECTION OF GROUNDWATER	RESTRICTED USE SOIL CLEANUP OBJECTIVES - COMMERCIAL
Aluminum	NS	NS	NS
Antimony	NS	NS	NS
Arsenic	16	16	16
Barium	10,000	820	400
Cadmium	60	7.5	9.3
Copper	10,000	1,720	270
Iron	NS	NS	NS
Lead	3,900	450	1,000
Mercury	5.7	0.73	2.8
Nickel	10,000	130	310
Selenium	6,800	4.0	1,500
Zinc	10,000	2,480	10,000

TABLES



Table 1
Soil Sampling Results
27-10 49th Avenue, Long Island City, New York
Remedial Investigation Report

Sample # Lab ID: Date Sampled: Depth(ft)	Part 375-6.8(b)			SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	SB-8	SB-9	SB-10	SB-11	SB-12	SB-13	SB-15	SB-19	SB-14	SB-16	SB-17	SB-18	SB-20
	Commercial (ppm)	Industrial (ppm)	Groundwater (ppm)	09161-001 10/23/2017 7.5/8	09161-002 10/23/2017 15.5/16	09161-003 10/23/2017 15/15.5	09161-004 10/23/2017 15.5/16	09161-005 10/23/2017 15/15.5	09161-006 10/23/2017 11/11.5	09161-007 10/23/2017 10/23/2017	09175-001 10/23/2017 10/23/2017	09175-002 10/23/2017 10/23/2017	09175-003 10/23/2017 10/23/2017	09175-004 10/24/2017 10/24/2017	09175-005 10/24/2017 10/24/2017	09175-006 10/24/2017 10/24/2017	09175-007 10/24/2017 10/24/2017	09175-008 10/24/2017 10/24/2017	09175-009 10/24/2017 10/24/2017	09175-010 10/24/2017 10/24/2017	09175-011 10/24/2017 10/24/2017	09175-012 10/24/2017 10/24/2017	09175-013 10/24/2017 10/24/2017
Volatiles (mg/Kg)				Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
Dichlorodifluoromethane	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	13	27	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NS	NS	1.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	500	1000	0.33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	500	1000	0.05	ND	0.337	0.060	0.115	0.00894	0.013	ND	0.033	ND	0.032	0.060	ND	ND	ND	ND	ND	0.202	ND	0.154	0.00782
Carbon disulfide	NS	NS	2.7	ND	0.0041	0.0019	0.0099	0.00132	0.0222	ND	ND	ND	0.00091	0.023	0.00299	ND	ND	ND	ND	0.00401	ND	0.0324	ND
Methylene chloride	500	1000	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethane	500	1000	0.19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether (MTBE)	500	1000	0.93	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	240	480	0.27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethane	500	1000	0.25	ND	ND	ND	0.00304	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.118	0.118	ND
2-Butanone (MEK)	500	1000	0.3	ND	0.072	0.00805	0.019	ND	ND	0.389	ND	0.00541	ND	ND	ND	ND	ND	ND	0.218	ND	0.014	ND	0.025
Bromochloromethane	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	350	700	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	500	1000	0.68	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	22	44	0.76	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (EDC)	30	60	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	44	89	0.06	ND	ND	ND	ND	ND	ND	0.065	0.000811	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00141	ND	ND
Trichloroethane	200	400	0.47	0.088	ND	ND	ND	ND	0.272	0.028	ND	0.000696	0.000523	ND	0.000735	ND	ND	ND	0.356	ND	0.198	ND	ND
1,2-Dichloropropane	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	130	250	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	NS	NS	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	500	1000	0.37	ND	0.000719	ND	ND	ND	0.174	0.032	ND	ND	ND	0.000507	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	150	300	1.3	10.5	ND	ND	ND	ND	7.78	0.268	ND	0.0032	0.015	0.012	0.019	ND	ND	1.84	10.9	ND	2.66	ND	0.00181
2-Hexanone	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	500	1000	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	390	780	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.000396	ND	ND	ND
Total Xylenes	500	1000	1.6	ND	ND	ND	ND	ND	0.166	0.049	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	NS	NS	2.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NS	NS	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	280	560	2.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	130	250	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	500	1000	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	NS	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl acetate	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.011	ND	ND	ND
Cyclohexane	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropene (cis- and trans-)	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL VOCs:	NS	NS	NS	10.6	0.413	0.070	0.235	0.010	0.015	8.78	0.441	0.040	0.0039	0.057	0.101	0.023	ND	2.06	11.9	0.526	2.98	0.183	0.00963
TOTAL TICs:	NS	NS	NS	10.6	0.035	ND	ND	ND	ND	ND	ND	0	0	ND	ND	D	4050	27.4	ND	0.245	ND	ND	ND
TOTAL VOCs & TICs:	NS	NS	NS	10.6	0.448	0.070	0.235	0.010	0.015	8.78	0.441	0.040	0.0039	0.057	0.101	0.023	4050	29.5	11.9	0.771	2.98	0.183	0.00963
Semivolatiles - BN (mg/Kg)				Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
Benzaldehyde	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethyl) ether	NS	NS	NS																				

Table 1
Soil Sampling Results
27-10 49th Avenue, Long Island City, New York
Remedial Investigation Report

Sample #: Lab ID: Date Sampled: Depth(ft)	Part 375-6.8(b)			SB-31S	SB-31D	SB-32S	SB-32D	SB-32D1	SB-33S	SB-33D	SB-34S	SB-34D	SB-35S	SB-35D	SB-36S	SB-36D	SB-37S	SB-37D	
	Commercial (ppm)	Protection of Industrial (ppm)	Groundwater (ppm)	10862-001 12/18/2017 22.5	10862-002 12/18/2017 81.5	10862-003 12/18/2017 22.5	10862-004 12/18/2017 89.5	10862-005 12/18/2017 1212.5	10862-006 12/18/2017 22.5	10862-007 12/18/2017 89.5	10862-008 12/18/2017 22.5	10862-009 12/18/2017 89.5	10862-010 12/18/2017 22.5	10862-011 12/18/2017 89.5	10862-012 12/18/2017 22.5	10862-013 12/18/2017 89.5	10862-014 12/18/2017 22.5	10862-015 12/18/2017 89.5	
Benz[a]anthracene	5.6	11	1	2.63	2.54	1.86	0.973	0.133	0.572	0.418	1.81	0.055	1.14	0.095	0.227	0.142	1.55	0.134	
Chrysene	56	110	1	3.13	2.53	1.82	0.963	0.124	0.736	0.469	2.08	0.048	1.14	0.101	0.252	0.142	1.36	0.131	
Bis(2-ethylhexyl) phthalate	NS	NS	435	ND	ND	ND	ND	ND	ND	0.061	ND	ND	ND	ND	ND	ND	5.61	0.202	
Di-n-octyl phthalate	NS	NS	120	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.03	ND
Benz[b]fluoranthene	5.6	11	1.7	1.94	1.62	1.24	0.534	0.081	0.439	0.302	1.21	ND	0.552	0.048	0.114	0.080	0.944	0.074	
Benz[k]fluoranthene	5.6	110	1.7	1.98	1.43	0.995	0.556	0.058	0.446	0.291	1.22	ND	0.721	0.068	0.157	0.083	1.07	0.082	
Benz[a]pyrene	1	1.1	2.2	1.1	1.54	1.18	0.587	0.067	0.301	0.21	1.12	ND	0.665	0.057	0.091	0.082	0.38	0.082	
Indeno[1,2,3-cd]pyrene	5.6	11	8.2	1.04	0.758	0.573	0.248	0.044	0.212	0.158	0.407	0.060	0.242	0.050	0.067	0.041	0.174	0.102	
Dibenz[a,h]anthracene	0.56	1.1	1000	0.403	0.230	0.204	0.065	ND	0.063	ND	0.206	ND	0.105	ND	ND	ND	0.079	ND	
Benzofluoranthene	500	1000	1000	0.993	0.883	0.622	0.264	0.080	0.214	0.181	0.416	0.121	0.230	0.099	0.069	0.040	0.126	0.197	
Dinitrotoluene (2,4- and 2,6-)	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TOTAL BNS:	NS	NS	NS	30.6	25.1	17.1	9.24	1.19	8.16	4.82	17.7	0.500	12.1	0.892	2.43	1.21	22.1	1.62	
TOTAL TICs:	NS	NS	NS	8.91	6.59	6.42	1.27	ND	0.755	3.77	7.54	ND	2.53	ND	ND	ND	41.6	8.37	
TOTAL BNS & TICs:	NS	NS	NS	39.5	31.7	23.5	10.5	1.19	8.92	8.59	25.2	0.506	14.6	0.892	2.43	1.21	63.7	9.99	
PCBs (mg/Kg)				Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	
Aroclor-1016	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Aroclor-1221	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Aroclor-1232	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Aroclor-1242	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Aroclor-1248	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Aroclor-1254	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Aroclor-1260	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Aroclor-1262	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Aroclor-1268	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
PCBs	1	25	3.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pesticides (mg/Kg)				Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	
alpha-BHC	3.4	6.8	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
beta-BHC	3	14	0.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
gamma-BHC (Lindane)	9.2	23	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
delta-BHC	500	1000	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Heptachlor	15	29	0.38	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Aldrin	0.68	1.4	0.19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Heptachlor epoxide	NS	NS	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Endosulfan I	200	920	102	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
4,4'-DDD	62	120	17	ND	ND	0.068	0.00688	ND	ND	ND	0.046	ND	0.00255	ND	ND	ND	0.100	0.00402	
Dieldrin	1.4	2.8	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Endrin	89	410	0.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Endosulfan II	200	920	102	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
4,4'-DDD	92	180	14	ND	ND	0.030	0.00473	ND	ND	ND	0.021	ND	ND	ND	ND	ND	0.027	ND	
Endrin aldehyde	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Endosulfan sulfate	200	920	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
4,4'-DDD	47	94	136	ND	ND	0.174	0.015	ND	ND	ND	0.081	ND	0.00736	ND	0.00338	ND	0.201	0.00691	
Endrin ketone	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Methoxychlor	NS	NS	900	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
alpha-Chlordane	24	47	2.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
gamma-Chlordane	NS	NS	14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Toxaphene	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Endosulfan (I and II)	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chlordane (alpha and gamma)	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Metals (mg/Kg)				Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	
Aluminum	NS	NS	NS	6320	9390	10800	7010	10000	5210	8210	7810	10000	9100	10100	7940	9550	8900	8180	
Antimony	NS	NS	NS	0.831	0.864	1.37	1.94	0.332	2.16	1.86	2.36	0.616	0.765	ND	0.695	0.856	2.77	0.287	
Arsenic	16	16	16	2.84	5.53	14.3	6.04	3.44	21.7	19.2	8.42	5.72	78.4	4.28	5.38	1.96	11.0	2.45	
Barium	400	10000	820	385	218	935	91.0	45.6	707	508	283	52.9	696	67.7	524	52.6	680	84.0	
Beryllium	590	2700	47	0.359	0.483	1.64	0.480	0.420	ND	0.349	1.76	0.495	0.463	0.538	0.448	0.520	0.761	0.404	
Cadmium	9.3	60	7.5	0.451	ND	1.43	ND	ND	1.30	1.25	1.31	ND	0.538	ND	0.593	ND	2.01	ND	
Calcium			NS	54400	19900	40900	5850	1500	59600	72000	11700	2230	54500	4170	41400	3680	45400	6930	
Chromium	NS	NS	NS	41.5	16.6	34.6	12.3	16.3	11.6	19.5	39.0	21.7	19.0	17.9	21.0	18.1	44.9	15.9	
Cobalt	NS	NS	NS	5.01	6.99	14.0	8.01	7.04	3.99	5.40	17.4	7.71	5.73	70.9	6.10	6.18	10.8	6.21	
Copper	270	10000	1720	14.5	28.3	172	16.8	22.7	22.7	35.5	322	15.1	33.5	14.7	27.1	22.5	147	19.3	
Iron	NS	NS	NS	13200	19700	29400	16200	17300	12100	20000	26400	19700	15200	18400	14900	17400	30900	16900	
Lead	1000	3900	450	566	167	970	98.7	38.0	ND	2730	2360	592	34.3	620	79.7	1020	16.9	761	
Magnesium	NS	NS	NS	3920	5080	4640	2940	3390	3150	7270	2550	3410	8220	3740	3920	4210	6150	3070	
Manganese	10000	10000	2000	237	322	366	443	142	205	277	301	171	295	354	306	254	348	353	
Mercury	2.8	5.7	0.73	0.346	0.241	0.650	0.156	0.066	1.59	1.41	0.422	0.063	0.421	0.091	ND	ND	0.467	0.274	
Nickel	310	10000	130	14.1	18.7	28.6	95.2	18.1	8.32	11.2	44.0	17.9	13.1	16.5	16.0	17.7	27.4	14.1	
Potassium	NS	NS	NS	1610	1880	2250	1170	1200	1250	2370	1100	1500	2330	1650	2270	1620	1650	1400	
Selenium	1500	6900	4	1.04	2.36	1.80	1.12	1.65	2.42	3.12	1.54	2.37	0.676	1.46	1.55	1.62	1.41	1.41	
Silver	1500	6900	8.3	ND	ND														

Table 1
Soil Sampling Results
27-10 49th Avenue, Long Island City, New York
Remedial Investigation Report

Sample #: Lab ID: Date Sampled: Depth(ft):	Part 375-6.8(b)			SB-38(S)	SB-38(D)	SB-39(S)	SB-39(D)	SB-40(S)	SB-40(D)	
	Commercial (ppm)	Industrial (ppm)	Groundwater (ppm)	10966-001 12/20/2017	10966-002 12/20/2017	10966-003 12/20/2017	10966-004 12/20/2017	10966-005 12/20/2017	10966-006 12/20/2017	
Volatiles (mg/Kg)										
Dichlorodifluoromethane	NS	NS	NS	ND	ND	ND	ND	ND	ND	
Chloromethane	NS	NS	NS	ND	ND	ND	ND	ND	ND	
Vinyl chloride	13	27	0.02	ND	ND	ND	ND	ND	ND	
Bromomethane	NS	NS	NS	ND	ND	ND	ND	ND	ND	
Chloroethane	NS	NS	1.9	ND	ND	ND	ND	ND	ND	
Trichlorofluoromethane	NS	NS	NS	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethene	500	1000	0.33	ND	ND	ND	ND	ND	ND	
Acetone	500	1000	0.05	ND	0.015	ND	ND	ND	ND	
Carbon disulfide	NS	NS	2.7	ND	0.00134	ND	ND	ND	ND	
Methylene chloride	500	1000	0.05	ND	0.00471	ND	ND	ND	0.00878	
trans-1,2-Dichloroethene	500	1000	0.19	ND	ND	ND	ND	ND	ND	
Methyl tert-butyl ether (MTBE)	500	1000	0.93	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethane	240	480	0.27	ND	ND	ND	ND	ND	ND	
cis-1,2-Dichloroethene	500	1000	0.25	ND	ND	ND	ND	ND	ND	
2-Butanone (MEK)	500	1000	0.3	ND	ND	ND	ND	ND	ND	
Bromochloromethane	NS	NS	NS	ND	ND	ND	ND	ND	ND	
Chloroform	350	700	0.37	ND	ND	ND	ND	ND	ND	
1,1,1-Trichloroethane	500	1000	0.68	ND	ND	ND	ND	ND	ND	
Carbon tetrachloride	22	44	0.76	ND	ND	ND	ND	ND	ND	
1,2-Dichloroethane (EDC)	30	60	0.02	ND	ND	ND	ND	ND	ND	
Benzene	44	89	0.06	ND	ND	ND	ND	ND	ND	
Trichloroethene	200	400	0.47	ND	ND	0.216	0.00272	ND	0.000586	
1,2-Dichloropropane	NS	NS	NS	ND	ND	ND	ND	ND	ND	
1,4-Dioxane	130	250	0.1	ND	ND	ND	ND	ND	ND	
Bromodichloromethane	NS	NS	NS	ND	ND	ND	ND	ND	ND	
cis-1,3-Dichloropropene	NS	NS	NS	ND	ND	ND	ND	ND	ND	
4-Methyl-2-pentanone (MIBK)	NS	NS	1	ND	ND	ND	ND	ND	ND	
Toluene	500	1000	0.7	ND	ND	ND	ND	ND	0.000794	
trans-1,3-Dichloropropene	NS	NS	NS	ND	ND	ND	ND	ND	ND	
1,1,2-Trichloroethane	NS	NS	NS	ND	ND	ND	ND	ND	ND	
Tetrachloroethene	150	300	1.3	1.82	ND	2.95	0.00337	1.55	0.011	
2-Hexanone	NS	NS	NS	ND	ND	ND	ND	ND	ND	
Dibromochloromethane	NS	NS	NS	ND	ND	ND	ND	ND	ND	
1,2-Dibromoethane (EDB)	NS	NS	NS	ND	ND	ND	ND	ND	ND	
Chlorobenzene	500	1000	1.1	ND	ND	ND	ND	ND	ND	
Ethylbenzene	390	780	1	ND	ND	ND	ND	ND	ND	
Total Xylenes	500	1000	1.6	ND	ND	ND	ND	ND	ND	
Styrene	NS	NS	NS	ND	ND	ND	ND	ND	ND	
Bromofom	NS	NS	NS	ND	ND	ND	ND	ND	ND	
Isopropylbenzene	NS	NS	2.3	ND	ND	ND	ND	ND	ND	
1,1,2,2-Tetrachloroethane	NS	NS	0.6	ND	ND	ND	ND	ND	ND	
1,3-Dichlorobenzene	280	560	2.4	ND	ND	ND	ND	ND	ND	
1,4-Dichlorobenzene	130	250	1.8	ND	ND	ND	ND	ND	ND	
1,2-Dichlorobenzene	500	1000	1.1	ND	ND	ND	ND	ND	ND	
1,2-Dibromo-3-chloropropane	NS	NS	NS	ND	ND	ND	ND	ND	ND	
1,2,4-Trichlorobenzene	NS	NS	NS	ND	ND	ND	ND	ND	ND	
1,2,3-Trichlorobenzene	NS	NS	NS	ND	ND	ND	ND	ND	ND	
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	NS	6	ND	ND	ND	ND	ND	ND	
Methyl acetate	NS	NS	NS	0.478	0.00161	ND	ND	ND	ND	
Cyclohexane	NS	NS	NS	0.230	ND	ND	ND	ND	ND	
Methylcyclohexane	NS	NS	NS	ND	ND	ND	ND	ND	ND	
1,3-Dichloropropene (cis- and trans-)	NS	NS	NS	ND	ND	ND	ND	ND	ND	
TOTAL VO's:	NS	NS	NS	2.59	0.023	3.17	0.00609	1.55	0.021	
TOTAL TIC's:	NS	NS	NS	ND	ND	ND	ND	ND	ND	
TOTAL VO's & TIC's:	NS	NS	NS	2.59	0.023	3.17	0.00609	1.55	0.021	
Semivolatiles - PAH (mg/Kg)										
Naphthalene	500	1000	12	-	-	-	-	-	-	
2-Methylnaphthalene	NS	NS	36.4	-	-	-	-	-	-	
Acenaphthylene	500	1000	107	-	-	-	-	-	-	
Acenaphthene	500	1000	98	-	-	-	-	-	-	
Fluorene	500	1000	386	-	-	-	-	-	-	
Phenanthrene	500	1000	1000	-	-	-	-	-	-	
Anthracene	500	1000	1000	-	-	-	-	-	-	
Fluoranthene	500	1000	1000	-	-	-	-	-	-	
Pyrene	500	1000	1000	-	-	-	-	-	-	
Benzo(a)anthracene	5.6	11	1	-	-	-	-	-	-	
Chrysene	5.6	110	1	-	-	-	-	-	-	
Benzo(b)fluoranthene	5.6	11	1.7	-	-	-	-	-	-	
Benzo(k)fluoranthene	5.6	110	1.7	-	-	-	-	-	-	
Benzo(a)pyrene	1	1.1	22	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	5.6	11	8.2	-	-	-	-	-	-	
Dibenz(a,h)anthracene	0.56	1.1	1000	-	-	-	-	-	-	
Benzo(g,h,i)perylene	500	1000	1000	-	-	-	-	-	-	
PCB's (mg/Kg)										
Aroclor-1016	NS	NS	NS	ND	ND	ND	ND	ND	ND	
Aroclor-1221	NS	NS	NS	ND	ND	ND	ND	ND	ND	
Aroclor-1232	NS	NS	NS	ND	ND	ND	ND	ND	ND	
Aroclor-1242	NS	NS	NS	ND	ND	ND	ND	ND	ND	
Aroclor-1248	NS	NS	NS	ND	ND	ND	ND	ND	ND	
Aroclor-1254	NS	NS	NS	ND	ND	ND	ND	ND	ND	
Aroclor-1260	NS	NS	NS	ND	ND	ND	ND	ND	ND	
Aroclor-1262	NS	NS	NS	ND	ND	ND	ND	ND	ND	
Aroclor-1268	NS	NS	NS	ND	ND	ND	ND	ND	ND	
PCBs	1	25	3.2	ND	ND	ND	ND	ND	ND	
Pesticides (mg/Kg)										
alpha-BHC	3.4	6.8	0.02	ND	ND	ND	ND	ND	ND	
beta-BHC	3	14	0.09	ND	ND	ND	ND	ND	ND	
gamma-BHC (Lindane)	9.2	23	0.1	ND	ND	ND	ND	ND	ND	
delta-BHC	500	1000	0.25	ND	ND	ND	ND	ND	ND	
Heptachlor	15	29	0.38	ND	ND	ND	ND	ND	ND	
Aldrin	0.68	1.4	0.19	ND	ND	ND	ND	ND	ND	
Heptachlor epoxide	NS	NS	0.02	ND	ND	ND	ND	ND	ND	
Endosulfan I	200	920	102	ND	ND	ND	ND	ND	ND	
4,4'-DDE	62	120	17	0.018	ND	0.00994	ND	0.00694	ND	
Dieldrin	1.4	2.8	0.1	ND	ND	ND	ND	ND	ND	
Endrin	89	410	0.06	ND	ND	ND	ND	ND	ND	
Endosulfan II	200	920	102	ND	ND	ND	ND	ND	ND	
4,4'-DDD	92	180	14	0.00922	ND	ND	ND	ND	ND	
Endrin aldehyde	NS	NS	NS	ND	ND	ND	ND	ND	ND	
Endosulfan sulfate	200	920	1000	ND	ND	ND	ND	ND	ND	
4,4'-DDT	47	94	136	0.061	ND	0.065	ND	0.046	ND	
Endrin ketone	NS	NS	NS	ND	ND	ND	ND	ND	ND	
Methoxychlor	NS	NS	900	ND	ND	ND	ND	ND	ND	
alpha-Chlordane	24	47	2.9	ND	ND	ND	ND	ND	ND	
gamma-Chlordane	NS	NS	14	ND	ND	ND	ND	ND	ND	
Toxaphene	NS	NS	NS	ND	ND	ND	ND	ND	ND	
Endosulfan (I and II)	NS	NS	NS	ND	ND	ND	ND	ND	ND	
Chlordane (alpha and gamma)	NS	NS	NS	ND	ND	ND	ND	ND	ND	
NJ-EPH-DRO (mg/Kg)										
C9-C28	NS	NS	NS	-	-	-	-	-	-	
C28-C40	NS	NS	NS	-	-	-	-	-	-	
C9-C40 Total	NS	NS	NS	-	-	-	-	-	-	
Metals (mg/Kg)										
Aluminum	NS	NS	NS	-	-	-	-	-	-	
Antimony	NS	NS	NS	-	-	-	-	-	-	
Arsenic	16	16	16	-	-	-	-	-	-	
Barium	400	10000	820	-	-	-	-	-	-	
Beryllium	590	2700	47	-	-	-	-	-	-	
Cadmium	9.3	60	7.5	-	-	-	-	-	-	
Calcium	NS	NS	NS	-	-	-	-	-	-	
Chromium	NS	NS	NS	-	-	-	-	-	-	
Cobalt	NS	NS	NS	-	-	-	-	-	-	
Copper	270	10000	1720	-	-	-	-	-	-	
Iron	NS	NS	NS	-	-	-	-	-	-	
Lead	1000	3900	450	-	-	-	-	-	-	
Magnesium	NS	NS	NS	-	-	-	-	-	-	
Manganese	10000	10000	2000	-	-	-	-	-	-	
Mercury	2.5	5.7	0.73	-	-	-	-	-	-	
Nickel	310	10000	130	-	-	-	-	-	-	
Potassium	NS	NS	NS	-	-	-	-	-	-	
Selenium	1500	6800	4	-	-	-	-	-	-	
Silver	1500	6800	8.3	-	-	-	-	-	-	
Sodium	NS	NS	NS	-	-	-	-	-	-	
Thallium	NS	NS	NS	-	-	-	-	-	-	
Vanadium	NS	NS	NS	-	-	-	-	-	-	
Zinc	10000	10000	2480	-	-	-	-	-	-	
TCLP Metals (mg/L)										
TCLP Arsenic	NS	NS	NS	-	-	-	-	-	-	
TCLP Barium	NS	NS	NS	-	-	-	-	-	-	
TCLP Cadmium	NS	NS	NS	-	-	-	-	-	-	
TCLP Chromium	NS	NS	NS	-	-	-	-	-	-	
TCLP Lead	NS	NS	NS	-	-	-	-	-	-	
TCLP Mercury	NS	NS	NS	-	-	-	-	-	-	
TCLP Selenium	NS	NS	NS	-	-	-	-	-	-	
TCLP Silver	NS	NS	NS	-	-	-	-	-	-	

NYCRR Part 375-6.8(a) Unrestricted Use Soil Cleanup Objectives & NYCRR Part 375-6.8(b) Restricted Use Soil Cleanup Objectives December 2006

Table 1
 Soil Sampling Results
 27-10 49th Avenue, Long Island City, New York
 Remedial Investigation Report

Sample ID	NYSDC Part 375 Restricted Use Soil Cleanup Objectives-Industrial	NYSDC Part 375 Restricted Use Soil Cleanup Objectives-Protection of OW	NYSDC Part 375 Restricted Use Soil Cleanup Objectives-Commercial	SB-44a	SB-44b	SB-45a	SB-45b	SB-46a	SB-46b	SB-47a	SB-47b	SB-48a	SB-48b	SB-49a	
				18E187-01 12:00:00 PM	18E187-02 12:00:00 PM	18E187-03 12:00:00 PM	18E187-04 12:00:00 PM	18E187-05 12:00:00 PM	18E187-06 12:00:00 PM	18E187-07 12:00:00 PM	18E187-08 12:00:00 PM	18E187-09 12:00:00 PM	18E187-10 12:00:00 PM	18E187-11 12:00:00 PM	
Sample ID	NYSDC Part 375 Restricted Use Soil Cleanup Objectives-Industrial	NYSDC Part 375 Restricted Use Soil Cleanup Objectives-Protection of OW	NYSDC Part 375 Restricted Use Soil Cleanup Objectives-Commercial	18E187-01		18E187-02		18E187-03		18E187-04		18E187-05		18E187-06	
				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Compound	mg/Kg	mg/Kg	mg/Kg	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	
Volatiles Organics, 826 - Comprehensive	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dioxin Factor	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
1,1,2-Trichloroethane	--	--	--	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
1,1,1-Trichloroethane	1000	0.68	500	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
1,1,2,2-Tetrachloroethane	--	--	--	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
1,1,2-Trichloro-1,2,2,2-tetrafluoroethane (Freon 113)	--	--	--	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
1,1,2-Trichloroethane	--	--	--	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
1,1-Dichloroethane	480	0.27	240	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
1,1-Dichloroethylene	1000	0.33	500	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
1,2,3-Trichlorobenzene	--	--	--	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
1,2,3-Trichloropropane	--	--	--	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
1,2,4-Trichlorobenzene	--	--	--	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
1,2,4-Trimethylbenzene	380	3.6	190	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
1,3-Dibromo-3-chloropropane	--	--	--	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
1,2-Dichloroethane	--	--	--	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
1,2-Dichlorobenzene	1000	1.1	500	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
1,2-Dichloropropane	60	0.02	30	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
1,2-Dichloropropane	--	--	--	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
1,3,5-Trimethylbenzene	380	8.4	190	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
1,3-Dichlorobenzene	560	2.4	280	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
1,4-Dichlorobenzene	250	1.8	130	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
1,4-Dioxane	250	0.1	130	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
2-Methoxyethanol	1000	0.12	500	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
2-Methoxyethanol	--	--	--	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
4-Methyl-2-pentanone	--	--	--	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
Axetone	1000	0.05	500	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
Axetone	--	--	--	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
Axetone	--	--	--	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
Benzene	89	0.06	44	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
Bromochloromethane	--	--	--	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
Bromodichloromethane	--	--	--	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
Bromoform	--	--	--	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
Bromomethane	--	--	--	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
Carbon disulfide	--	--	--	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
Carbon tetrachloride	44	0.76	22	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
Chlorobenzene	1000	1.1	500	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
Chloroethane	700	0.37	350	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
Chloroform	--	--	--	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
Chloromethane	--	--	--	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
cis-1,2-Dichloroethylene	1000	0.25	500	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
cis-1,3-Dichloropropylene	--	--	--	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
Cylohexane	--	--	--	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
Dibromochloromethane	--	--	--	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
Dibromomethane	--	--	--	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
Dibromofluoromethane	--	--	--	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
Diethylbenzene	780	1	390	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
Diisobutylmalonate	--	--	--	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
Isopropylbenzene	--	--	--	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
Methyl acetate	--	--	--	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
Methyl tert-butyl ether (MTBE)	1000	0.89	500	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
Methylcyclohexane	--	--	--	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
Methylene chloride	1000	0.05	500	0.0060	0.0070	0.010	0.0060	0.010	0.012	0.0080	0.010	0.0060	0.010	0.0090	
n-Butylbenzene	1000	12	500	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
n-Propylbenzene	1000	3.9	500	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
n-Pentane	--	--	--	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
p- & m-Xylenes	--	--	--	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
n-Propylbenzene	--	--	--	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
sec-Butylbenzene	1000	11	500	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
Styrene	--	--	--	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
tert-Butyl alcohol (TBA)	--	--	--	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
tert-Butylbenzene	1000	5.9	500	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
Tetrahydrofuran	300	1.3	150	0.0700	0.0020	0.0100	0.0660	0.0210	0.0040	0.0390	0.0170	0.0020	0.0160	0.0160	
Toluene	1000	0.7	500	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
trans-1,2-Dichloroethylene	1000	0.19	500	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
trans-1,3-Dichloropropylene	--	--	--	0.0020	0.0020	0.0030	0.0020	0.0020	0.0030	0.0020	0.0030	0.0020	0.0030	0.0020	
trans-1,4-dichloro-2-butene	--	--	--	0.0020	0.0020	0.0030	0.0								

Table 1
Soil Sampling Results
27-10 49th Avenue, Long Island City, New York
Remedial Investigation Report

Sample ID Yield ID Sampling Date Client Matrix	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Industrial	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Protection of OW	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Commercial	SB-49b 18E1187-12 5/24/2018 12:00:00 PM Soil	SB-49a 18E1187-13 5/24/2018 12:00:00 PM Soil	SB-50b 18E1187-14 5/24/2018 12:00:00 PM Soil	SB-51a 18E1187-15 5/24/2018 12:00:00 PM Soil	SB-51b 18E1187-16 5/24/2018 12:00:00 PM Soil	SB-52 18E1187-17 5/24/2018 12:00:00 PM Soil	SB-53 18E1187-18 5/24/2018 12:00:00 PM Soil	SB-54 18E1187-19 5/24/2018 12:00:00 PM Soil	SB-55 18E1187-20 5/24/2018 12:00:00 PM Soil	SB-58c 18E1187-21 5/24/2018 12:00:00 PM Soil	SB-59c 18E1187-22 5/24/2018 12:00:00 PM Soil	SB-91c 18E1187-23 5/24/2018 12:00:00 PM Soil
Compound	mg/Kg	mg/Kg	mg/Kg	Result mg/Kg	Result mg/Kg	Result mg/Kg	Result mg/Kg	Result mg/Kg	Result mg/Kg	Result mg/Kg	Result mg/Kg	Result mg/Kg	Result mg/Kg	Result mg/Kg	Result mg/Kg
Volatiles Organics, 8260 - Comprehensive															
Dilution Factor	-	-	-	10	10	1	1	1	1	1	1	1	1	1	1
1,1,1-Trichloroethane	-	-	-	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
1,1,1-Trichloroethane	1000	0.68	500	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
1,1,2,2-Tetrachloroethane	-	-	-	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
1,1,2-Trichloro-1,2,2-hydroethane (Freon 113)	-	-	-	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
1,1,2-Trichloroethane	-	-	-	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
1,1-Dichloroethane	480	0.27	240	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
1,1-Dichloroethylene	1000	0.33	500	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
1,2,3-Trichlorobenzene	-	-	-	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
1,2,3-Trichloropropane	-	-	-	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
1,2,4-Trichlorobenzene	-	-	-	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
1,2,4-Trimethylbenzene	380	3.6	190	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
1,2-Dibromo-3-chloropropane	-	-	-	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
1,2-Dibromomethane	-	-	-	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
1,2-Dichlorobenzene	1000	1.1	500	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
1,2-Dichloroethane	60	0.02	30	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
1,2-Dichloropropane	-	-	-	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
1,3,5-Trimethylbenzene	380	8.4	190	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
1,3-Dichloropropane	560	2.4	280	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
1,4-Dichlorobenzene	250	1.8	120	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
1,4-Dioxane	250	0.1	130	0.0480	0.100	0.0500	0.0500	0.0530	0.0560	0.0560	0.0560	0.0560	0.0560	0.0600	0.0600
2-Butanone	1000	0.12	500	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
2-Hexanone	-	-	-	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
Methyl-2-pentanone	-	-	-	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
Acetone	1000	0.05	500	0.00560	0.0280	0.00600	0.00600	0.0150	0.0240	0.0110	0.0110	0.0220	0.0140	0.0600	0.0600
Acrolein	-	-	-	0.00480	0.0100	0.00500	0.00500	0.00530	0.00600	0.00560	0.00560	0.00560	0.00560	0.0110	0.00600
Acrylonitrile	-	-	-	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
Benzene	89	0.06	44	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
Bromochloromethane	-	-	-	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
Bromodichloromethane	-	-	-	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
Bromoform	-	-	-	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
Bromomethane	-	-	-	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
Carbon disulfide	-	-	-	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
Carbon tetrachloride	44	0.76	22	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
Chlorobenzene	1000	1.1	500	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
Chloroethane	-	-	-	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
Chloroform	700	0.37	350	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
Chloromethane	-	-	-	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
cis-1,2-Dichloroethylene	1000	0.25	500	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
cis-1,3-Dichloropropylene	-	-	-	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
Cyclohexane	-	-	-	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
Dibromochloromethane	-	-	-	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
Dibromomethane	-	-	-	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
Dichlorodifluoromethane	-	-	-	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
Ethyl Benzene	780	1	390	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
Hexachlorobutadiene	-	-	-	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
Isopropylbenzene	-	-	-	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
Methyl acetate	-	-	-	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
Methyl tert-butyl ether (MTBE)	1000	0.93	500	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
Methylcyclohexane	-	-	-	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
Methylene chloride	1000	0.05	500	0.120	0.130	0.130	0.0860	0.1120	0.1150	0.1110	0.0980	0.0810	0.0800	0.0220	0.0960
n-Butylbenzene	1000	12	500	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
n-Propylbenzene	1000	3.9	500	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
o-Xylene	-	-	-	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
p- & m- Xylenes	-	-	-	0.00480	0.0100	0.00500	0.00500	0.00530	0.00600	0.00560	0.00560	0.00560	0.00560	0.0110	0.00600
p-Isopropylbenzene	-	-	-	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
sec-Butylbenzene	1000	11	500	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.00280	0.00280	0.00330	0.00280	0.00300	0.00300
Styrene	-	-	-	0.00240	0.00510	0.00250	0.00250	0.00270	0.00330	0.					

Table 1
Soil Sampling Results
27-10 49th Avenue, Long Island City, New York
Remedial Investigation Report

Sample ID Yield ID Reporting Date Client Name	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Protection of GW		NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Industrial		NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Commercial		SB-56A	SB-56B	SB-56C	SB-57A	SB-57B	SB-57C	SB-58A	SB-58B	SB-58C	SB-58A	SB-58B	SB-58C	SB-58A	SB-58B	SB-58C	SB-58A	SB-58B	SB-58C	
	11/13/2015		11/13/2015		11/13/2015		11/13/2015	11/13/2015	11/13/2015	11/13/2015	11/13/2015	11/13/2015	11/13/2015	11/13/2015	11/13/2015	11/13/2015	11/13/2015	11/13/2015	11/13/2015	11/13/2015	11/13/2015	11/13/2015	11/13/2015	11/13/2015	
	Compound	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Volatiles Organics, NYSED Part 375 List																									
Dilution Factor																									
1,1,1-Trichloroethane		1000	500	500	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	
1,1-Dichloroethane	0.27	480	240	240	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	
1,1-Dichloroethylene	0.33	1000	500	500	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	
1,2,4-Trimethylbenzene	3.6	380	190	190	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	
1,2-Dichlorobenzene	1.1	1000	500	500	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	
1,3-Dichlorobenzene	0.02	60	30	30	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	
1,3,5-Trimethylbenzene	8.4	380	190	190	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	
1,3-Dichlorobenzene	2.4	560	280	280	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	
1,4-Dichlorobenzene	1.8	290	130	130	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	
1,2-Dioxane	0.1	230	130	130	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	
2-Butanone	0.12	1000	500	500	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	
Acetone	0.05	1000	500	500	0.0110	0.0270	0.0020	0.0100	0.0040	0.0120	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	
Benzene	0.06	89	44	44	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	
Carbon tetrachloride	0.76	44	22	22	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	
Dichlorobenzene	1.1	1000	500	500	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	
Chloroform	0.37	700	350	350	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	
cis-1,2-Dichloroethylene	0.25	1000	500	500	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	
Ethyl Benzene	1	780	390	390	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	
Methyl tert-butyl ether (MTBE)	0.93	1000	500	500	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	
Methylene chloride	0.05	1000	500	500	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	
Naphthalene	12	1000	500	500	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	
n-Butylbenzene	12	1000	500	500	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	
n-Propylbenzene	3.9	1000	500	500	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	
n-Xylene	1	-	-	-	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	
o-Xylene	1	-	-	-	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	
sec-Butylbenzene	11	1000	500	500	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	
tert-Butylbenzene	5.9	1000	500	500	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	
Tetrahydrofuran	1.3	300	150	150	0.0170	14	0.0950	0.0130	0.100	0.12	0.0290	6.60	0.0580	0.0090	0.0080	0.0080	0.0080	0.0080	0.0080	0.0080	0.0080	0.0080	0.0080	0.0080	0.0080
Toluene	0.7	1000	500	500	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	
trans-1,2-Dichloroethylene	0.19	1000	500	500	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	
Trichloroethylene	0.47	400	200	200	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	
Vinyl Chloride	0.02	27	13	13	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	
Xylenes, Total	1.6	1000	500	500	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	
Petroleum Identification Fluoride	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Semi-Volatiles, NYSED Part 375 List																									
Dilution Factor																									
1-Methylphenol	0.33	1000	500	500	0.0472	0.0472	0.0472	0.0472	0.0472	0.0472	0.0472	0.0472	0.0472	0.0472	0.0472	0.0472	0.0472	0.0472	0.0472	0.0472	0.0472	0.0472	0.0472	0.0472	
3,4-Dimethylphenol	-	-	-	-	0.2472	0.2472	0.2472	0.2472	0.2472	0.2472	0.2472	0.2472	0.2472	0.2472	0.2472	0.2472	0.2472	0.2472	0.2472	0.2472	0.2472	0.2472	0.2472	0.2472	
Acetophenone	98	1000	500	500	0.0685	0.0685	0.0685	0.0685	0.0685	0.0685	0.0685	0.0685	0.0685	0.0685	0.0685	0.0685	0.0685	0.0685	0.0685	0.0685	0.0685	0.0685	0.0685	0.0685	
Acrylonitrile	107	100																							

Table 1
Soil Sampling Results
27-10 49th Avenue, Long Island City, New York
Remedial Investigation Report

Sample ID York ID Client Field Date Ident Matrix	CAS Number	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Protection of GW		NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Industrial		NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Commercial		SB-73A	SB-73B	SB-73C	SB-74A	SB-74B	SB-75A	SB-75B	SB-76A	SB-76B	SB-77A	SB-77B	SB-77C	Dup 1114	
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Volatiles Organics, NYSDEC Part 375 List																					
Dilution Factor																					
1,1,1-Trichloroethane	75-66-6	0.68	1000	500	0.00290	0.00510	0.00210	0.00410	0.00320	0.00280	0.00270	0.00300	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280
1,1-Dichloroethane	75-34-3	0.27	480	240	0.00290	0.00510	0.00210	0.00410	0.00320	0.00280	0.00270	0.00300	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280
1,2-Dichloroethane	75-35-4	0.33	1000	500	0.00290	0.00510	0.00210	0.00410	0.00320	0.00280	0.00270	0.00300	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280
1,2,4-Trimethylbenzene	95-63-6	3.6	380	190	0.00290	0.00510	0.00210	0.00410	0.00320	0.00280	0.00270	0.00300	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280
1,2-Dichlorobenzene	95-50-1	1.1	1000	500	0.00290	0.00510	0.00210	0.00410	0.00320	0.00280	0.00270	0.00300	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280
1,2-Dichloroethane	107-06-2	0.2	60	30	0.00290	0.00510	0.00210	0.00410	0.00320	0.00280	0.00270	0.00300	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280
1,3,5-Trimethylbenzene	109-67-8	8.4	380	190	0.00290	0.00510	0.00210	0.00410	0.00320	0.00280	0.00270	0.00300	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280
1,3-Dichlorobenzene	541-73-1	2.4	560	280	0.00290	0.00510	0.00210	0.00410	0.00320	0.00280	0.00270	0.00300	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280
1,4-Dichlorobenzene	106-46-7	1.8	250	130	0.00290	0.00510	0.00210	0.00410	0.00320	0.00280	0.00270	0.00300	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280
1,4-Dioxane	123-91-1	0.1	250	130	0.00290	0.00510	0.00210	0.00410	0.00320	0.00280	0.00270	0.00300	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280
2-Butanone	79-53-3	0.12	1000	500	0.00290	0.00510	0.00210	0.00410	0.00320	0.00280	0.00270	0.00300	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280
Acetone	67-64-1	0.05	1000	500	0.00290	0.00510	0.00210	0.00410	0.00320	0.00280	0.00270	0.00300	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280
Benzene	71-43-2	0.06	89	44	0.00290	0.00510	0.00210	0.00410	0.00320	0.00280	0.00270	0.00300	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280
Carbon tetrachloride	56-23-5	0.76	44	22	0.00290	0.00510	0.00210	0.00410	0.00320	0.00280	0.00270	0.00300	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280
Chlorobenzene	108-90-7	1.1	1000	500	0.00290	0.00510	0.00210	0.00410	0.00320	0.00280	0.00270	0.00300	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280
Chloroform	67-66-3	0.37	700	350	0.00290	0.00510	0.00210	0.00410	0.00320	0.00280	0.00270	0.00300	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280
1,2-Dichloroethylene	106-59-2	0.93	1000	500	0.00290	0.00510	0.00210	0.00410	0.00320	0.00280	0.00270	0.00300	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280
Bis(1-chloroethyl) ether	100-41-4	1	780	390	0.00290	0.00510	0.00210	0.00410	0.00320	0.00280	0.00270	0.00300	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280
Methyl tert-butyl ether (MTBE)	1634-04-4	0.25	1000	500	0.00290	0.00510	0.00210	0.00410	0.00320	0.00280	0.00270	0.00300	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280
Methylene chloride	75-09-2	0.05	1000	500	0.00290	0.00510	0.00210	0.00410	0.00320	0.00280	0.00270	0.00300	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280
Naphthalene	91-20-3	12	1000	500	0.00290	0.00510	0.00210	0.00410	0.00320	0.00280	0.00270	0.00300	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280
n-Butylbenzene	105-16-8	12	1000	500	0.00290	0.00510	0.00210	0.00410	0.00320	0.00280	0.00270	0.00300	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280
n-Propylbenzene	105-65-1	3.9	1000	500	0.00290	0.00510	0.00210	0.00410	0.00320	0.00280	0.00270	0.00300	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280
n-Butylbenzene	105-65-1	3.9	1000	500	0.00290	0.00510	0.00210	0.00410	0.00320	0.00280	0.00270	0.00300	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280
n-Pentylbenzene	105-65-1	3.9	1000	500	0.00290	0.00510	0.00210	0.00410	0.00320	0.00280	0.00270	0.00300	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280
n-Hexylbenzene	105-65-1	3.9	1000	500	0.00290	0.00510	0.00210	0.00410	0.00320	0.00280	0.00270	0.00300	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280
n-Heptylbenzene	105-65-1	3.9	1000	500	0.00290	0.00510	0.00210	0.00410	0.00320	0.00280	0.00270	0.00300	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280
n-Octylbenzene	105-65-1	3.9	1000	500	0.00290	0.00510	0.00210	0.00410	0.00320	0.00280	0.00270	0.00300	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280
n-Nonylbenzene	105-65-1	3.9	1000	500	0.00290	0.00510	0.00210	0.00410	0.00320	0.00280	0.00270	0.00300	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280
n-Decylbenzene	105-65-1	3.9	1000	500	0.00290	0.00510	0.00210	0.00410	0.00320	0.00280	0.00270	0.00300	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280
n-Dodecylbenzene	105-65-1	3.9	1000	500	0.00290	0.00510	0.00210	0.00410	0.00320	0.00280	0.00270	0.00300	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280
n-Tetradecylbenzene	105-65-1	3.9	1000	500	0.00290	0.00510	0.00210	0.00410	0.00320	0.00280	0.00270	0.00300	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280
n-Hexadecylbenzene	105-65-1	3.9	1000	500	0.00290	0.00510	0.00210	0.00410	0.00320	0.00280	0.00270	0.00300	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280
n-Octadecylbenzene	105-65-1	3.9	1000	500	0.00290	0.00510	0.00210	0.00410	0.00320	0.00280	0.00270	0.00300	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280
n-Eicosylbenzene	105-65-1	3.9	1000	500	0.00290	0.00510	0.00210	0.00410	0.00320	0.00280	0.00270	0.00300	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280
n-Hentriacontylbenzene	105-65-1	3.9	1000	500	0.00290	0.00510	0.00210	0.00410	0.00320	0.00280	0.00270	0.00300	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280
n-Triacontylbenzene	105-65-1	3.9	1000	500	0.00290	0.00510	0.00210	0.00410	0.00320	0.00280	0.00270	0.00300	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280
n-Tetracontylbenzene	105-65-1	3.9	1000	500	0.00290	0.00510	0.00210	0.00410	0.00320	0.00280	0.00270	0.00300	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280
n-Pentacosylbenzene	105-65-1	3.9	1000	500	0.00290	0.00510	0.00210	0.00410	0.00320	0.00280	0.00270	0.00300	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280
n-Hexacosylbenzene	105-65-1	3.9	1000	500	0.00290	0.00510	0.00210	0.00410	0.00320	0.00280	0.00270	0.00300	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280
n-Heptacosylbenzene	105-65-1	3.9	1000	500	0.00290	0.00510	0.00210	0.00410	0.00320	0.00280	0.00270	0.00300	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280	0.00280
n-Octacosylbenzene	105-65-1	3.9	1000	500	0.00290	0.00510	0.00210	0.00410	0.00320	0.00280	0.00270	0.00300	0.00280	0.00280	0.00280						

Table 2
Groundwater Sampling Results
27-10 49th Avenue, Long Island City, New York
Remedial Investigation Report

Sample #: Field ID: Lab ID: Date Sampled: Depth(ft):	TOGs - Table 5 Groundwater Effluent Limitations (Class GA) (ug/L)	MW-1 10256-001 11/29/2017	MW-2 10256-002 11/29/2017	MW-3 10256-003 11/29/2017	FIELD 10256-004 11/29/2017	TRIP 10256-005 11/29/2017
Volatiles (ug/L)		Conc	Conc	Conc	Conc	Conc
Dichlorodifluoromethane	5	ND	ND	ND	ND	ND
Chloromethane	5	ND	ND	ND	ND	ND
Vinyl chloride	2	ND	1.62	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND
Trichlorofluoromethane	5	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	ND	ND
Carbon disulfide	60	ND	ND	ND	ND	ND
Methylene chloride	5	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND
Methyl tert-butyl ether (MTBE)	10	ND	ND	1.55	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	0.768	0.490	ND	ND
2-Butanone (MEK)	50	ND	ND	ND	ND	ND
Bromochloromethane	5	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND
Carbon tetrachloride	5	ND	ND	ND	ND	ND
1,2-Dichloroethane (EDC)	0.6	ND	ND	ND	ND	ND
Benzene	1	0.708	ND	0.689	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	ND	ND	ND	ND	ND
1,4-Dioxane	NS	ND	ND	ND	ND	ND
Bromodichloromethane	50	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	NS	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	NS	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	NS	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND
Tetrachloroethene	5	0.679	0.484	ND	ND	ND
2-Hexanone	50	ND	ND	ND	ND	ND
Dibromochloromethane	50	ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB) [^]	0.0006	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND
Total Xylenes	15	ND	ND	ND	ND	ND
Styrene	930	ND	ND	ND	ND	ND
Bromoform	50	ND	ND	ND	ND	ND
Isopropylbenzene	5	2.50	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	0.608	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane [^]	0.04	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	5	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ND	ND	ND	ND	ND
Methyl acetate	NS	ND	ND	ND	ND	ND
Cyclohexane	NS	1.44	ND	ND	ND	ND
Methylcyclohexane	NS	1.15	ND	ND	ND	ND
1,3-Dichloropropene (cis- and trans-)	0.4	ND	ND	ND	ND	ND
TOTAL VO's:	NS	7.09	2.87	2.73	ND	ND
TOTAL TIC's:	NS	133	ND	71.0	ND	ND
TOTAL VO's & TIC's:	NS	140	2.87	73.7	ND	ND
Semivolatiles - BN (ug/L)		Conc	Conc	Conc	Conc	Conc
Benzaldehyde	NS	ND	ND	ND	ND	-
Bis(2-chloroethyl) ether	1	ND	ND	ND	ND	-
2,2-Oxybis(1-Chloropropane)	5	ND	ND	ND	ND	-
N-Nitrosodi-n-propylamine	NS	ND	ND	ND	ND	-
Acetophenone	NS	ND	ND	ND	ND	-
Hexachloroethane	5	ND	ND	ND	ND	-
Nitrobenzene	0.4	ND	ND	ND	ND	-
Isophorone	50	ND	ND	ND	ND	-
Bis(2-chloroethoxy) methane	5	ND	ND	ND	ND	-
Naphthalene	10	1.20	ND	ND	ND	-
4-Chloroaniline	5	ND	ND	ND	ND	-
Hexachlorobutadiene	0.5	ND	ND	ND	ND	-
Caprolactam	NS	ND	ND	ND	ND	-
2-Methylnaphthalene	NS	2.20	ND	ND	ND	-
Hexachlorocyclopentadiene	5	ND	ND	ND	ND	-
1,1'-Biphenyl	5	0.161	ND	ND	ND	-
2-Chloronaphthalene	10	ND	ND	ND	ND	-
2-Nitroaniline	5	ND	ND	ND	ND	-
Dimethyl phthalate	50	ND	ND	ND	ND	-
2,6-Dinitrotoluene	5	ND	ND	ND	ND	-
Acenaphthylene	NS	ND	ND	ND	ND	-
3-Nitroaniline	5	ND	ND	ND	ND	-
Acenaphthene	20	4.71	ND	ND	ND	-
2,4-Dinitrotoluene	5	ND	ND	ND	ND	-
Dibenzofuran	NS	0.792	ND	ND	ND	-
Diethyl phthalate	50	ND	ND	ND	ND	-
Fluorene	50	2.31	ND	ND	ND	-
4-Chlorophenyl phenyl ether	NS	ND	ND	ND	ND	-
4-Nitroaniline	5	ND	ND	ND	ND	-
1,2,4,5-Tetrachlorobenzene	5	ND	ND	ND	ND	-
N-Nitrosodiphenylamine	50	ND	ND	ND	ND	-
4-Bromophenyl phenyl ether	NS	ND	ND	ND	ND	-
Hexachlorobenzene	0.04	ND	ND	ND	ND	-
Atrazine	7.5	ND	ND	ND	ND	-
Phenanthrene	50	3.63	ND	ND	ND	-
Anthracene	50	0.724	ND	ND	ND	-
Carbazole	NS	1.34	ND	ND	ND	-
Di-n-butyl phthalate	50	ND	ND	ND	ND	-
Fluoranthene	50	0.526	ND	ND	ND	-
Pyrene	50	0.483	ND	ND	ND	-
Butyl benzyl phthalate	50	ND	ND	ND	ND	-
3,3'-Dichlorobenzidine	5	ND	ND	ND	ND	-
Benzo[aj]anthracene	0.002	ND	ND	ND	ND	-
Chrysene	0.002	ND	ND	ND	ND	-
Bis(2-ethylhexyl) phthalate	5	ND	ND	ND	ND	-
Di-n-octyl phthalate	50	ND	ND	ND	ND	-
Benzo[b]fluoranthene	0.002	ND	ND	ND	ND	-
Benzo[k]fluoranthene	0.002	ND	ND	ND	ND	-
Benzo[a]pyrene	NS	ND	ND	ND	ND	-
Indeno[1,2,3-cd]pyrene	0.002	ND	ND	ND	ND	-
Dibenzo[a,h]anthracene	NS	ND	ND	ND	ND	-
Benzo[g,h,i]perylene	NS	ND	ND	ND	ND	-
Dinitrotoluene (2,4- and 2,6-)	NS	ND	ND	ND	ND	-
TOTAL BN'S:	NS	18.1	ND	ND	ND	-
TOTAL TIC's:	NS	13.7	18.2	15.7	ND	-
TOTAL BN'S & TIC's:	NS	31.8	18.2	15.7	ND	-
PCB's (ug/L)		Conc	Conc	Conc	Conc	Conc
Aroclor-1016	see total PCBs	ND	ND	ND	ND	-
Aroclor-1221	see total PCBs	ND	ND	ND	ND	-
Aroclor-1232	see total PCBs	ND	ND	ND	ND	-
Aroclor-1242	see total PCBs	ND	ND	ND	ND	-
Aroclor-1248	see total PCBs	ND	ND	ND	ND	-
Aroclor-1254	see total PCBs	ND	ND	ND	ND	-
Aroclor-1260	see total PCBs	ND	ND	ND	ND	-
Aroclor-1262	see total PCBs	ND	ND	ND	ND	-
Aroclor-1268	see total PCBs	ND	ND	ND	ND	-
PCBs	0.09	ND	ND	ND	ND	-

BOLD Conc

BOLD RL

BOLD MDL

NS = No Standard Available

- = Sample not analyzed for

ND = Analyzed for but Not Detected at the MDL

J = Concentration detected at a value below the RL and above the MDL for target compounds. For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.

D = The compound was reported from the Diluted analysis

All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.

C = Common Laboratory and/or Bottle Contaminant.

N = Presumptive evidence of a compound from the use of GC/MS library search.



Table 2
Groundwater Sampling Results
27-10 49th Avenue, Long Island City, New York
Remedial Investigation Report

Sample ID		MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	Field Blank	Trip Blank	MW-4 DUP
York ID	NYSDEC TOGS Standards and Guidance Values - GA	18K1041-01	18K1041-02	18K1041-03	18K1041-04	18K1041-06	18K1041-07	18K1041-08	18K1041-09	18K1041-10	18K1041-11	18K1041-12	18K1041-13	18K1041-05
Sampling Date		11/28/18	11/28/18	11/28/18	11/27/18	11/28/18	11/27/18	11/27/18	11/27/18	11/27/18	11/27/18	11/28/18	11/28/18	11/27/18
Client Matrix		Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Compound	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatiles Organics, NYSDEC Part 375 List														
Dilution Factor	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1,1,1-Trichloroethane	5	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
1,1-Dichloroethane	5	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
1,1-Dichloroethylene	5	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
1,2,4-Trimethylbenzene	5	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
1,2-Dichlorobenzene	3	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
1,2-Dichloroethane	0.6	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
1,3,5-Trimethylbenzene	5	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
1,3-Dichlorobenzene	3	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
1,4-Dichlorobenzene	3	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
1,4-Dioxane	~	40	40	40	40	40	40	40	40	40	40	40	40	40
2-Butanone	50	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
Acetone	50	1	1	1	1	5.900	11	11	1	1	1	1	1	1
Benzene	1	0.200	0.200	0.200	0.200	0.370	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
Carbon tetrachloride	5	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
Chlorobenzene	5	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
Chloroform	7	0.200	0.200	0.200	0.200	0.200	0.420	0.430	0.200	0.200	0.200	0.200	0.200	0.200
cis-1,2-Dichloroethylene	5	0.200	0.570	0.440	0.220	0.200	0.200	0.200	0.200	0.200	0.440	0.200	0.200	0.200
Ethyl Benzene	5	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
Methyl tert-butyl ether (MTBE)	10	0.200	0.200	0.900	2.800	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	2.600
Methylene chloride	5	1	1	1	1	1	1	1	1	1	1	1	1	1
Naphthalene	10	1	1	1	1	1	1	1	1	1	1	1	1	1
n-Butylbenzene	5	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
n-Propylbenzene	5	0.550	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
o-Xylene	5	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
p- & m- Xylenes	5	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
sec-Butylbenzene	5	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
tert-Butylbenzene	5	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
Tetrachloroethylene	5	0.200	2	0.620	0.680	3.300	0.530	0.710	1.200	0.200	0.260	0.200	0.200	0.640
Toluene	5	0.200	0.200	0.200	0.200	0.210	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
trans-1,2-Dichloroethylene	5	0.200	0.200	0.430	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
Trichloroethylene	5	0.200	0.360	1.100	0.200	0.200	0.200	0.210	0.200	0.200	0.260	0.200	0.200	0.200
Vinyl Chloride	2	0.200	0.850	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
Xylenes, Total	5	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600
Semi-Volatiles, NYSDEC Part 375 List														
Dilution Factor	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2-Methylphenol	1	2.560	2.560	2.560	2.560	2.560	2.560	2.560	2.560	2.560	2.560	2.630	NT	2.560
3- & 4-Methylphenols	~	2.560	2.560	2.560	2.560	2.560	2.560	2.560	2.560	2.560	2.560	2.630	NT	2.560
Acenaphthene	20	4.660	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0615	0.0526	NT	0.0513
Acenaphthylene	~	0.0718	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.113	0.0513	0.0513	0.0526	NT	0.0513
Anthracene	50	0.964	0.0615	0.0513	0.0513	0.0513	0.0513	0.0513	0.164	0.0513	0.0615	0.0526	NT	0.0513
Benzo(a)anthracene	0.002	0.144	0.0513	0.0513	0.0513	0.0615	0.0513	0.0513	0.338	0.0513	0.0513	0.0526	NT	0.0513
Benzo(a)pyrene	0.002	0.0923	0.0513	0.0513	0.0513	0.0615	0.0513	0.0513	0.421	0.0513	0.0513	0.0526	NT	0.0513
Benzo(b)fluoranthene	0.002	0.0615	0.0513	0.0513	0.0513	0.0615	0.0513	0.0513	0.503	0.0513	0.0513	0.0526	NT	0.0513
Benzo(g,h,i)perylene	~	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.328	0.0513	0.0513	0.0526	NT	0.0513
Benzo(k)fluoranthene	0.002	0.0718	0.0513	0.0513	0.0513	0.0615	0.0513	0.0513	0.400	0.0513	0.0513	0.0526	NT	0.0513
Chrysene	0.002	0.144	0.0513	0.0513	0.0513	0.0821	0.0513	0.0513	0.451	0.0513	0.0513	0.0526	NT	0.0513
Dibenz(a,h)anthracene	~	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0923	0.0513	0.0513	0.0526	NT	0.0513
Dibenzofuran	~	2.560	2.560	2.560	2.560	2.560	2.560	2.560	2.560	2.560	2.560	2.630	NT	2.560
Fluoranthene	50	0.872	0.0615	0.0513	0.0513	0.164	0.0718	0.0718	0.636	0.0923	0.0821	0.0526	NT	0.0513
Fluorene	50	2.490	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0526	NT	0.0513
Hexachlorobenzene	0.04	0.0205	0.0205	0.0205	0.0205	0.0205	0.0205	0.0205	0.0205	0.0205	0.0205	0.0211	NT	0.0205
Indeno(1,2,3-cd)pyrene	0.002	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.308	0.0513	0.0513	0.0526	NT	0.0513
Naphthalene	10	0.256	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0526	NT	0.0513
Pentachlorophenol	1	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.263	NT	0.256
Phenanthrene	50	4.530	0.0513	0.0513	0.0513	0.123	0.0513	0.0513	0.226	0.0821	0.164	0.0526	NT	0.0513
Phenol	1	2.560	2.560	2.560	2.560	2.560	2.560	2.560	2.560	2.560	2.560	2.630	NT	2.560
Pyrene	50	0.944	0.133	0.0513	0.0513	0.154	0.0615	0.0718	0.667	0.185	0.0923	0.0526	NT	0.0615
Pesticides, NYSDEC Part 375 Target List														
Dilution Factor	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4,4'-DDD	0.3	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410
4,4'-DDE	0.2	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410
4,4'-DDT	0.2	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410
Aldrin	~	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410
alpha-BHC	0.01	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410
alpha-Chlordane	~	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410
beta-BHC	0.04	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410
delta-BHC	0.04	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410	0.00410
Dieldrin	0.004	0.00205	0.00205	0.00205	0.00205	0.00205	0.00205	0.00205	0.00205	0.00205	0.00205	0.00205	0.00205	0.00205
Endosulfan I	~	0.00410</												

Table 2
Groundwater Sampling Results
27-10 49th Avenue, Long Island City, New York
Remedial Investigation Report

Sample ID		MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	Field Blank	Trip Blank	MW-4 DUP
York ID		18K1041-01	18K1041-02	18K1041-03	18K1041-04	18K1041-06	18K1041-07	18K1041-08	18K1041-09	18K1041-10	18K1041-11	18K1041-12	18K1041-13	18K1041-05
Sampling Date	NYSDEC TOGS Standards and Guidance Values - GA	11/28/18	11/28/18	11/28/18	11/27/18	11/28/18	11/27/18	11/27/18	11/27/18	11/27/18	11/27/18	11/28/18	11/28/18	11/27/18
Client Matrix		Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Compound		Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Potassium	~	79,000	52,700	155,000	50,800	80,400	105,000	108,000	154,000	42,300	69,800	820	NT	50,200
Silver	50	5.560	5.560	5.560	5.560	5.560	5.560	5.560	5.560	5.560	5.560	5.560	NT	5.560
Sodium	20000	931,000	835,000	5,230,000	929,000	2,870,000	4,570,000	4,800,000	5,960,000	2,850,000	1,170,000	1,730	NT	930,000
Vanadium	~	11.100	11.100	11.100	11.100	11.100	11.100	11.100	11.100	11.100	11.100	11.100	NT	11.100
Zinc	2000	27.800	49.200	27.800	27.800	27.800	44.200	40	33.600	27.800	27.800	27.800	NT	27.800
Metals, Target Analyte, ICPMS	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Dilution Factor		1	1	1	1	1	1	1	1	1	1	1		1
Antimony	3	1.110	1.110	1.810	1.110	1.110	1.110	1.110	4.580	1.110	1.110	1.110	NT	1.110
Arsenic	25	3.610	1.120	4.550	1.120	1.800	1.920	2.050	5.090	1.280	4.060	1.110	NT	1.110
Beryllium	3	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	NT	0.333
Cadmium	5	0.556	0.556	1.460	0.556	0.556	0.556	0.556	1.870	0.556	0.556	0.556	NT	0.556
Selenium	10	20.600	37.100	50.300	28.800	55.500	60.500	73.800	103	44.400	40.800	9.030	NT	29
Thallium	~	1.110	1.110	1.110	1.110	1.110	1.110	1.110	1.110	1.110	1.110	1.110	NT	1.110
Metals, Target Analyte, ICPMS Dissolved	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Dilution Factor		1	1	1	1	1	1	1	1	1	1	1		1
Antimony	3	1.110	1.110	1.340	1.110	1.110	1.110	1.110	4.250	1.110	1.110	1.110	NT	1.110
Arsenic	25	2.670	1.110	2.830	1.110	1.740	1.950	1.550	2.090	1.200	4.350	1.110	NT	1.260
Beryllium	3	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	NT	0.333
Cadmium	5	0.556	0.556	0.556	0.556	0.556	0.556	0.556	0.556	0.556	0.556	0.556	NT	0.556
Selenium	10	32.100	43.100	77.700	37.600	41.100	80.500	83.600	115	54.500	63.600	9.060	NT	26
Thallium	~	1.110	1.110	1.110	1.110	1.110	1.110	1.110	1.110	1.110	1.110	1.110	NT	1.110
Mercury by 7473	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Dilution Factor		1	1	1	1	1	1	1	1	1	1	1		1
Mercury	0.7	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	NT	0.200
Mercury by 7473, Dissolved	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Dilution Factor		1	1	1	1	1	1	1	1	1	1	1		1
Mercury	0.7	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	NT	0.200
Chromium, Hexavalent	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Dilution Factor		1	1	1	1	1	1	1	1	1	1	1		1
Chromium, Hexavalent	50	10	10	10	10	10	10	10	10	10	10	10	NT	10
Chromium, Trivalent	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Dilution Factor		1	1	1	1	1	1	1	1	1	1	1		1
Chromium, Trivalent	~	10	10	10	20.400	10	10	10	10	10	10	65.400	NT	10
Cyanide, Total	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Dilution Factor		1	1	1	1	1	1	1	1	1	1	1		1
Cyanide, total	200	26.100	10	10	10	10	10	10	10	20.700	10	10	NT	10
Herbicides, Target List	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Dilution Factor		1	1	1	1	1	1	1	1	1	1	1		1
2,4,5-T	35	5	5	5	5	5	5	5	5	5	5	5	NT	5
2,4,5-TP (Silvex)	0.26	5	5	5	5	5	5	5	5	5	5	5	NT	5
2,4-D	50	5	5	5	5	5	5	5	5	5	5	5	NT	5
Polychlorinated Biphenyls (PCB)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Dilution Factor		1	1	1	1	1	1	1	1	1	1	1		1
Aroclor 1016	~	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	NT	0.0513
Aroclor 1221	~	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	NT	0.0513
Aroclor 1232	~	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	NT	0.0513
Aroclor 1242	~	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	NT	0.0513
Aroclor 1248	~	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	NT	0.0513
Aroclor 1254	~	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	NT	0.0513
Aroclor 1260	~	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	NT	0.0513
Total PCBs	0.09	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	NT	0.0513

Q is the Qualifier Column with definitions as follows:

D=result is from an analysis that required a dilution

J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

U=analyte not detected at or above the level indicated

B=analyte found in the analysis batch blank

E=result is estimated and cannot be accurately reported due to levels encountered or interferences

P=this flag is used for pesticide and PCB (Aroclor) target compounds when there is a % difference for detected concentrations that exceed method dictated limits between the two GC columns used for analysis

NT=this indicates the analyte was not a target for this sample

~this indicates that no regulatory limit has been established for this analyte



Table 3
Water Level Data
27-10 49th Avenue, Long Island City, New York
Remedial Investigation Report

Address: 27-10 Hunters Point (49th) Avenue, Long Island City, Queens, New York
AESI Case No.:
Date/Time: 11/29/17 5:45
Weather: Temp. 36°F, partly cloudy

Well Permit #:

Well#:	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10
Key #:										
Pre-Purge Data:										
PID / QVM Reading (mu):	0	0	0	0	0	0	0	0	0	0
Product Thickness (ft):	0	0	0	0	0	0	0	0	0	0
Depth to Water (ft):	10.00	10.00	8.43	9.65	10.52	9.51	10.18	11.21	7.79	10.53
Total Depth of Well (ft):	20.15	20.09	20.10	20.00	20.10	20.10	20.10	19.46	20.00	20.10
Well diameter (in):	2	2	2	2	2	2	2	2	2	2
Volume of water in well (gallons):	1.65	1.64	1.90	1.69	1.70	1.73	1.62	1.34	1.99	1.56
Volume of water to purge (x3)(gallons):	4.96	4.93	5.71	5.06	5.14	5.18	4.85	4.03	5.97	4.68
pH:	6.67	7.27	6.93	6.93	6.93	7.38	7.26	7.43	6.27	7.07
Oxygen Reduction Potential (mV):	19.4	-13.3	-5.8	3.5	5.2	-20.9	-15.4	-24.9	43.0	-4.4
Specific conductivity (uS):	5.82	10.8	15.9	6.93	7.96	17	17.7	15.4	7.85	7.18
Turbidity (ntu):	681	209	139	263	0	30	85	173	0	6
Dissolved oxygen (mg/L):	2.29	2.34	2.64	2.48	2.47	3.00	2.78	2.64	2.36	2.81
Temperature (°C):	18.60	17.60	14.80	16.70	16.90	13.30	13.00	15.60	18.30	13.50
Post-Purge Data:										
Purge Start Time:	6:36	6:15	12:04	13:50	12:26	9:08	10:51	11:44	8:21	8:48
Purge Stop Time:	6:56	6:31	12:12	14:11	12:40	9:29	11:11	11:58	8:41	9:01
Purge Method:	pump	pump	pump	pump	pump	pump	pump	pump	pump	pump
Purge Rate (gpm):	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Total Volume Purged (gallons):	5	4	2	5.25	3.5	5.25	5.25	3.5	5	4.25
Depth to Water After Purge (ft):	15.55	18.00	18.00	10.00	18.30	8.51	8.38	18.00	18.00	18.00
pH:	6.63	7.07	7.01	7.15	6.79	7.52	7.75	7.39	6.73	7.04
Oxygen Reduction Potential (mV):	21.4	-4.3	-4.5	-9.0	11.8	-19.5	-42.5	-21.9	15.1	-2.9
Specific conductivity (uS):	5.7	2.16	15.7	5.77	9.2	13.5	17.3	16.7	7.65	6.64
Turbidity (ntu):	451	320	288	116	267	49	93	584	575	61
Dissolved oxygen (mg/L):	2.22	2.34	3.04	2.29	2.87	3.28	3.22	2.62	2.22	2.47
Temperature (°C):	18.60	17.70	12.60	18.00	16.70	10.90	11.70	15.90	19.30	16.40
Before Sampling Data:										
Depth to Water Before Sampling (ft):	10.03	10.06	8.86	9.65	10.62	8.50	8.35	16.40	7.79	10.53
Sampling Start Time:	10:01	9:26	7:57	14:30	7:28 *	16:28	11:12	17:10	15:56	16:35
After Sampling Data:										
Sampling End Time:	10:24	9:52	9:21	15:20	7:51	17:47	11:40	17:56	16:26	17:00
Depth to Water After Sampling (ft):	12.78	13.32	19.53	9.73	17.41	8.50	8.30	18.74	10.53	16.75
pH:	6.75	7.30	6.65	7.42	6.62	7.46	7.69	7.45	7.32	7.19
Oxygen Reduction Potential (mV):	12.7	-17.5	15.0	-23.7	21.3	-25.2	-38.1	-24.3	-18.6	-16.4
Specific conductivity (uS):	5.8	5.75	14.8	5.82	7.56	13.7	13.3	15.9	7.75	7.74
Turbidity (ntu):	323	223	258	215	431	77	107	468	160	165
Dissolved oxygen (mg/L):	2.31	2.14	2.45	2.99	2.57	3.34	3.25	2.51	2.39	3.26
Temperature (°C):	17.80	16.80	16.30	17.30	17.50	11.20	10.90	18.30	18.00	11.20
Sample Method:	bailer	bailer	bailer	bailer	bailer	bailer	bailer	bailer	bailer	bailer
Field Observations										
Recharge Rate (gpm)	0.15	0.01	0.01	0.01	0.01	0.25	0.25	0.01	0.01	0.01
Sheen	no	no	no	no	no	no	no	no	no	no
Odor	no	no	no	no	no	no	no	no	no	no
Turbidity	yes	no	no	no	no	no	no	no	no	no

Notes:

Pump = The purge device used was a peristaltic pump w/ dedicated tubing
 Bailer = The sampling device used was a disposable, dedicated bailer.
 mu - meter units, uS - micro Siemens, mS - milli Siemens, ntu - nephelometric turbidity units
 mg/l - milligrams per liter, gpm - gallons per minute, °C - degrees Celsius, °F - degrees Fahrenheit
 ft - feet below top of PVC casing
 Ground water sampled for VOCs, SVOCs, PCBs for NY TOGS



Table 4
Soil-Gas Sampling Results
27-10 49th Avenue, Long Island City, NY
Remedial Investigation Report

Compound	Air Guideline Value (ug/m3)	Sub Slab	Sub Slab	Sub Slab
		SV-1	SV-2	SV-3
		E17-10917-01	E17-10917-02	E17-10917-03
		ug/m3	ug/m3	ug/m3
Acetone	-	33	110	530
Benzene	-	ND	35	160
Bromodichloromethane	-	ND	ND	ND
Bromoform	-	ND	ND	ND
Bromomethane	-	ND	ND	ND
1,3-Butadiene	-	ND	ND	ND
Chlorobenzene	-	ND	ND	ND
Chloroethane	-	ND	ND	ND
Chloroform	-	ND	13	19
Chloromethane	-	ND	ND	ND
Carbon disulfide	-	24	40	110
Carbon tetrachloride	-	ND	ND	ND
Cyclohexane	-	13	120	160
Dibromochloromethane	-	ND	ND	ND
1,2-Dibromoethane	-	ND	ND	ND
1,2-Dichlorobenzene	-	ND	ND	ND
1,3-Dichlorobenzene	-	ND	ND	ND
1,4-Dichlorobenzene	-	ND	ND	ND
Dichlorodifluoromethane	-	ND	ND	ND
1,1-Dichloroethane	-	ND	ND	ND
1,2-Dichloroethane	-	ND	ND	ND
1,1-Dichloroethene	-	ND	ND	ND
1,2-Dichloroethene (cis)	-	ND	ND	ND
1,2-Dichloroethene (trans)	-	ND	ND	ND
1,2-Dichloropropane	-	ND	ND	ND
1,3-Dichloropropene (cis)	-	ND	ND	ND
1,3-Dichloropropene (trans)	-	ND	ND	ND
1,3-Dichloropropene - TOTAL	-	ND	ND	ND
1,2-Dichlorotetrafluoroethane	-	ND	ND	ND
1,4-Dioxane	-	ND	ND	ND
Ethylbenzene	-	ND	ND	ND
n-Heptane	-	ND	9.8	35
1,3-Hexachlorobutadiene	-	ND	ND	ND
n-Hexane	-	9.9	20	42
Methylene chloride	60	19	ND	ND
Methyl ethyl ketone	-	59	76	110
Methyl isobutyl ketone	-	ND	ND	ND
Methyl tert-butyl ether	-	ND	ND	ND
Styrene	-	ND	ND	ND
Tert-butyl alcohol	-	ND	35	58
1,1,2,2-Tetrachloroethane	-	ND	ND	ND
Tetrachloroethene	100	660	480	1100
Toluene	-	24	26	31
1,2,4-Trichlorobenzene	-	ND	ND	ND
1,1,1-Trichloroethane	-	ND	ND	33
1,1,2-Trichloroethane	-	ND	ND	ND
Trichloroethene	5	49	120	39
Trichlorofluoromethane	-	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	-	ND	ND	ND
1,2,4-Trimethylbenzene	-	ND	ND	ND
1,3,5-Trimethylbenzene	-	ND	ND	ND
2,2,4-Trimethylpentane	-	ND	ND	ND
Vinyl bromide	-	ND	ND	ND
Vinyl chloride	-	ND	ND	ND
Xylenes (m&p)	-	ND	ND	ND
Xylenes (o)	-	ND	ND	ND
Xylenes - TOTAL	-	ND	ND	ND



Table 4
Soil-Gas Sampling Results
27-10 49th Avenue, Long Island City, New York
Remedial Investigation Report

Sample ID York ID Sampling Date Client Matrix	Air Guideline Value (ug/m3)	SV1-a	SV2-a	SV3-a	SV-4	SV-5
		18E0761-01 5/15/2018 3:00:00 PM	18E0761-02 5/15/2018 3:00:00 PM	18E0761-03 5/15/2018 3:00:00 PM	18E0761-04 5/15/2018 3:00:00 PM	18E0761-05 5/15/2018 3:00:00 PM
Compound		Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Result		Result	Result	Result	Result	Result
Volatiles Organics, EPA TO15 Full List	-	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
Dilution Factor	-	16.41	15	16.14	136.24	131.28
1,1,1,2-Tetrachloroethane	-	11	10	11	12	11
1,1,1-Trichloroethane	-	9	8,200	8,800	9,300	9
1,1,2-Trichloroethane	-	11	10	11	12	11
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	-	13	11	11	13	13
1,1,2-Trichloroethane	-	9	8,200	8,800	9,300	9
1,1-Dichloroethane	-	6,600	6,100	6,500	6,900	6,600
1,1-Dichloroethylene	-	1,600	1,500	1,600	1,700	1,600
1,2,4-Trichlorobenzene	-	12	11	12	13	12
1,2,4-Trimethylbenzene	-	71	50	62	160	130
1,2-Dibromoethane	-	13	12	12	13	13
1,2-Dichlorobenzene	-	9,900	9	9,700	10	9,900
1,2-Dichloroethane	-	17	12	16	31	31
1,2-Dichloropropane	-	7,600	6,900	7,500	7,900	7,600
1,2-Dichlorotetrafluoroethane	-	11	10	11	12	11
1,3,5-Trimethylbenzene	-	23	15	20	46	39
1,3-Butadiene	-	11	9	11	11	11
1,3-Dichlorobenzene	-	9,900	9	9,700	10	9,900
1,3-Dichloropropane	-	7,600	6,900	7,500	7,900	7,600
1,4-Dichlorobenzene	-	9,900	9	9,700	10	9,900
1,4-Dioxane	-	12	11	12	12	12
2-Butanone	-	120	92	93	1,900	610
2-Hexanone	-	73	32	26	440	180
3-Chloropropane	-	26	23	25	27	26
4-Methyl-2-pentanone	-	16	6,100	13	7	22
Acetone	-	320	160	190	350	210
Acrylonitrile	-	3,600	3,300	3,500	3,700	3,600
Benzene	-	9,400	35	540	28	22
Benzyl chloride	-	8,500	7,800	8,400	8,800	8,500
Bromodichloromethane	-	11	10	11	11	11
Bromoform	-	17	16	17	18	17
Bromomethane	-	6,400	5,800	6,300	6,600	6,400
Carbon disulfide	-	26	90	19	18	63
Carbon tetrachloride	-	2,600	2,400	2,500	2,700	2,600
Chlorobenzene	-	7,600	6,900	7,400	7,800	7,600
Chloroethane	-	4,300	4	4,300	4,500	4,300
Chloroform	-	8	12	11	55	54
Chloromethane	-	3,400	3,400	3,300	3,500	16
cis-1,2-Dichloroethylene	-	1,600	1,500	1,600	3,000	500
cis-1,3-Dichloropropylene	-	7,400	6,800	7,300	7,700	7,400
Cyclohexane	-	6,800	64	5,600	5,900	19
Dibromochloromethane	-	14	13	14	15	14
Dichlorodifluoromethane	-	8,100	7,400	8	8,400	8,100
Ethyl acetate	-	12	11	12	12	12
Ethyl Benzene	-	190	100	160	290	250
Hexachlorobutadiene	-	18	16	17	18	18
Isopropanol	-	50	8,100	17	8,400	8,100
Methyl Methacrylate	-	6,700	6,100	6,600	7	6,700
Methyl tert-butyl ether (MTBE)	-	5,900	5,400	5,800	6,100	5,900
Methylene chloride	60	11	10	11	12	11
n-Heptane	-	18	19	11	34	41
n-Hexane	-	12	26	5,700	21	46
o-Xylene	-	190	100	160	300	260
p- & m- Xylenes	-	550	300	460	840	730
p-Ethyltoluene	-	81	52	70	160	140
Propylene	-	14	45	100	110	150
Styrene	-	1,100	680	950	1,700	1,700
Tetrachloroethylene	100	2,100	2,700	1,300	42,000	21,000
Tetrahydrofuran	-	9,700	8,800	9,500	10	9,700
Toluene	-	230	67	760	590	150
trans-1,2-Dichloroethylene	-	6,500	5,900	6,400	140	27
trans-1,3-Dichloropropylene	-	7,400	6,800	7,300	7,700	7,400
Trichloroethylene	5	85	340	26	4,200	1,600
Trichlorofluoromethane (Freon 11)	-	9,200	8,400	9,100	9,600	9,200
Vinyl acetate	-	5,800	5,300	5,700	6	5,800
Vinyl bromide	-	7,200	6,600	7,100	7,400	7,200
Vinyl Chloride	-	1	0.960	1	1.100	1
Volatiles Organics, TO15 Tent. Identified Cmpds.		ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
Dilution Factor	-	16.41	15	16.14	17.03	16.41
Tentatively Identified Compounds	-	0	0	0	0	0
Unknown Alcohol	-	NT	0	NT	0	NT
Unknown alcohol #1	-	0	NT	NT	NT	0
Unknown Alcohol #2	-	0	NT	NT	NT	0
Unknown Alcohol #3	-	0	NT	NT	NT	0
Unknown Alkane	-	0	NT	NT	NT	0
Unknown alkane #1	-	NT	NT	NT	0	NT
Unknown Alkane #2	-	NT	NT	NT	0	NT
Unknown Alkane #3	-	NT	NT	NT	0	NT
Unknown alkene #1	-	NT	NT	0	0	0
Unknown alkene #2	-	NT	NT	0	0	0
Unknown alkene #3	-	NT	NT	NT	NT	0
Unknown Alkene #1	-	0	0	NT	NT	NT
Unknown Alkene #2	-	0	0	NT	NT	NT
Unknown butane isomer	-	0	0	NT	NT	0
Unknown butene isomer	-	NT	NT	NT	0	NT
Unknown cyclohexane #1	-	NT	0	NT	NT	NT
Unknown cyclohexane #2	-	NT	0	NT	NT	NT
Unknown cyclopentane isomer	-	0	0	0	0	0
Unknown Heptane	-	0	NT	NT	NT	NT
Unknown Heptane isomer #1	-	NT	0	0	0	0
Unknown Heptane isomer #2	-	NT	0	0	NT	0
Unknown heptene isomer	-	NT	NT	0	NT	NT
Unknown hexane isomer	-	NT	NT	NT	NT	0
Unknown octane isomer	-	NT	NT	NT	NT	0
Unknown octane isomer #1	-	NT	NT	0	0	NT
Unknown octane isomer #2	-	NT	NT	0	0	NT
Unknown pentane isomer	-	0	NT	NT	0	NT
Unknown pentene isomer	-	NT	NT	NT	0	0

NOTES:

Any Regulatory Exceedences are color coded by Regulation

Q is the Qualifier Column with definitions as follows:

D=result is from an analysis that required a dilution

J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

U=analyte not detected at or above the level indicated

B=analyte found in the analysis batch blank

E=result is estimated and cannot be accurately reported due to levels encountered or interferences

NT=this indicates the analyte was not a target for this sample

~this indicates that no regulatory limit has been established for this analyte



Table 4
Soil-Gas Sampling Results
27-10 49th Avenue, Long Island City, New York
Remedial Investigation Report

Sample ID York ID Sampling Date Client Matrix	Air Guideline Value (ug/m3)	C5		B6		C3		D1		A10		C11		B12		B14		DUP	
		18K0273-06 11/7/2018 11:19:00 AM Soil Vapor	18K0273-06 11/7/2018 11:19:00 AM Soil Vapor	18K0273-07 11/7/2018 11:27:00 AM Soil Vapor	18K0273-07 11/7/2018 11:27:00 AM Soil Vapor	18K0273-08 11/7/2018 11:39:00 AM Soil Vapor	18K0273-08 11/7/2018 11:39:00 AM Soil Vapor	18K0273-09 11/7/2018 11:50:00 AM Soil Vapor	18K0273-09 11/7/2018 11:50:00 AM Soil Vapor	18K0273-10 11/7/2018 12:01:00 PM Soil Vapor	18K0273-10 11/7/2018 12:01:00 PM Soil Vapor	18K0273-11 11/7/2018 12:06:00 PM Soil Vapor	18K0273-11 11/7/2018 12:06:00 PM Soil Vapor	18K0273-12 11/7/2018 12:10:00 PM Soil Vapor	18K0273-12 11/7/2018 12:10:00 PM Soil Vapor	18K0273-13 11/7/2018 12:17:00 PM Soil Vapor	18K0273-13 11/7/2018 12:17:00 PM Soil Vapor	18K0273-14 11/7/2018 12:21:00 PM Soil Vapor	18K0273-14 11/7/2018 12:21:00 PM Soil Vapor
Volatiles Organics, EPA TO15 Full List	-	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Dilution Factor	-	33.78	34.96	31.52	14.89	66.16	1.696	64.32	27.26	64.32	1.100	1.200	1.100	0.940	1.700	1.100	0.940	1.100	1.100
1,1,1,2-Tetrachloroethane	-	1.200	1.200	1.100	1	1.100	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200
1,1,1-Trichloroethane	-	2.700	12	1.700	0.810	1.500	0.930	1.800	1.700	3.200	1.100	1.200	1.100	1.700	1.100	1.200	1.100	1.200	1.100
1,1,2,2-Tetrachloroethane	-	1.200	1.200	1.100	1	1.100	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.100
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	-	1.300	1.300	1.200	1.100	1.300	1.300	1.200	1	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200
1,1,2-Trichloroethane	-	0.920	0.950	0.860	0.810	0.900	0.930	0.880	0.740	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880
1,1-Dichloroethane	-	0.680	0.710	0.640	0.600	0.670	0.690	0.650	0.550	0.650	0.650	0.650	0.650	0.650	0.650	0.650	0.650	0.650	0.650
1,1-Dichloroethylene	-	0.170	0.170	0.160	0.150	0.520	0.170	0.160	0.140	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160
1,2,4-Trichlorobenzene	-	1.300	1.300	1.200	1.100	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200
1,2,4-Trimethylbenzene	-	4.900	4.700	9	5.700	6.400	0.830	6	5.600	4.600	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200
1,2-Dibromoethane	-	1.300	1.300	1.200	1.100	1.300	1.300	1.200	1	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200
1,2-Dichlorobenzene	-	1	1.100	0.950	0.900	0.990	1	0.970	0.820	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970
1,2-Dichloroethane	-	0.680	0.710	0.640	0.600	0.670	0.690	0.650	0.550	0.650	0.650	0.650	0.650	0.650	0.650	0.650	0.650	0.650	0.650
1,2-Dichloropropane	-	0.780	0.810	0.730	0.690	0.760	0.780	0.740	0.630	0.740	0.740	0.740	0.740	0.740	0.740	0.740	0.740	0.740	0.740
1,2-Dichlorotetrafluoroethane	-	1.200	1.200	1.100	1	1.200	1.200	1.100	0.950	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100
1,3,5-Trimethylbenzene	-	1.100	1.200	3	1.800	6.400	0.830	1.600	1.400	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200
1,3-Butadiene	-	1.100	1.200	1	0.990	1.100	1.100	1.100	0.900	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100
1,3-Dichlorobenzene	-	1	1.100	0.950	0.900	0.990	1	0.970	0.820	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970
1,3-Dichloropropane	-	0.780	0.810	0.730	0.690	0.760	0.780	0.740	0.630	0.740	0.740	0.740	0.740	0.740	0.740	0.740	0.740	0.740	0.740
1,4-Dichlorobenzene	-	1.700	1.100	0.950	0.900	0.990	1	0.970	0.820	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200
1,4-Dioxane	-	1.200	1.300	1.100	1.100	1.200	1.200	1.200	0.980	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200
2-Butanone	-	2.600	1.400	5.300	12	1.700	1.500	1.600	1.300	2.200	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300
2-Hexanone	-	1.400	1.400	4.100	2.800	1.400	1.400	1.300	1.100	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300
3-Chloropropene	-	2.600	2.700	2.500	2.300	2.600	2.500	2.500	2.100	2.500	2.500	2.500	2.500	2.500	2.500	2.500	2.500	2.500	2.500
4-Methyl-2-pentanone	-	0.690	0.720	1.300	3	0.680	0.690	0.660	0.560	0.660	0.660	0.660	0.660	0.660	0.660	0.660	0.660	0.660	0.660
Acetone	-	6.300	3.500	37	59	7.600	11	7.600	4.800	3.900	3.900	3.900	3.900	3.900	3.900	3.900	3.900	3.900	3.900
Acrylonitrile	-	0.370	0.380	0.340	0.320	0.360	0.370	0.350	0.300	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350
Benzene	-	3.200	0.840	0.860	0.860	0.860	0.850	4.600	1.100	3.400	3.400	3.400	3.400	3.400	3.400	3.400	3.400	3.400	3.400
Benzyl chloride	-	0.870	0.900	0.820	0.770	0.860	0.860	0.830	0.710	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830
Bromodichloromethane	-	1.100	1.200	1.100	1.100	1.100	1.100	1.100	0.910	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100
Bromoforn	-	1.700	1.800	1.600	1.500	1.700	1.800	1.700	1.400	1.700	1.700	1.700	1.700	1.700	1.700	1.700	1.700	1.700	1.700
Bromomethane	-	0.660	0.680	0.610	0.580	0.640	0.660	0.620	0.530	0.620	0.620	0.620	0.620	0.620	0.620	0.620	0.620	0.620	0.620
Carbon disulfide	-	13	18	79	230	7	2.500	9.100	6.500	15	6.500	6.500	6.500	6.500	6.500	6.500	6.500	6.500	6.500
Carbon tetrachloride	-	0.270	0.270	0.250	0.230	0.260	0.270	0.250	0.210	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.250
Chlorobenzene	-	0.780	0.800	0.730	0.690	0.760	0.780	0.810	0.630	0.740	0.740	0.740	0.740	0.740	0.740	0.740	0.740	0.740	0.740
Chloroethane	-	0.450	0.460	0.420	0.390	0.440	0.450	0.420	0.360	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420
Chloroform	-	9.600	43	15	5.400	21	8.300	11	9	12	9	9	9	9	9	9	9	9	9
Chloromethane	-	0.350	0.360	0.330	0.310	0.340	0.350	0.330	0.280	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330
cis-1,2-Dichloroethylene	-	0.170	0.170	0.160	0.150	0.520	0.170	0.160	0.140	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160
cis-1,3-Dichloropropylene	-	0.770	0.770	0.720	0.680	0.750	0.770	0.730	0.620	0.730	0.730	0.730	0.730	0.730	0.730	0.730	0.730	0.730	0.730
Cyclohexane	-	2.600	0.960	0.600	0.620	1.100	0.580	0.720	0.660	2.300	0.660	0.660	0.660	0.660	0.660	0.660	0.660	0.660	0.660
Dibromochloromethane	-	1.400	1.500	1.300	1.300	1.400	1.400	1.400	1.200	1.400	1.400	1.400	1.400	1.400	1.400	1.400	1.400	1.400	1.400
Dichlorodifluoromethane	-	1.800	1.800	2	2	1.900	1.800	2	1.800	1.700	1.700	1.700	1.700	1.700	1.700	1.700	1.700	1.700	1.700
Ethyl acetate	-	1.200	1.200	1.100	1.100	1.200	1.200	1.200	0.980	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200
Ethyl Benzene	-	1.400	1.200	2.700	1.800	2.900	1.740	1.200	1	0.910	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200
Hexachlorobutadiene	-	1.800	1.900	1.700	1.600	1.800	1.700	1.700	1.500	1.700	1.700	1.700	1.700	1.700	1.700	1.700	1.700	1.700	1.700
Isopropanol	-	0.830	0.860	3.200	3.800	0.810	0.830	0.790	0.670	0.790	0.790	0.790	0.790	0.790	0.790	0.790	0.790	0.790	0.790
Methyl Methacrylate	-	0.690	0.720	0.650	0.610	0.680	0.690	0.660	0.560	0.660	0.660	0.660	0.660	0.660	0.660	0.660	0.660	0.660	0.660
Methyl tert-butyl ether (MTBE)	-	0.810	0.830	0.570	0.540	0.600	0.610	0.580	0.490	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580
Methylene chloride	60	4.700	1.200	1.100	1.200	1.100	1.200	1.100	0.950	2.300	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100
n-Heptane	-	0.690	0.720	2.500	7.600	0.680	0.700	0.660	0.560	0.660	0.660	0.660							

Table 5
Ambient Air Sampling Results
27-10 49th Avenue, Long Island City, New York
Remedial Investigation Report

Compound	Air Guideline Value (ug/m3)	A1	A2	A3	A4
		E18-00010-01	E18-00010-02	E18-00010-03	E18-00010-04
		ug/m3	ug/m3	ug/m3	ug/m3
Acetone	-	10	13	13	7.6
Benzene	-	0.96	0.96	0.86	1.4
Bromodichloromethane	-	ND	ND	ND	ND
Bromoform	-	ND	ND	ND	ND
Bromomethane	-	ND	ND	ND	ND
1,3-Butadiene	-	ND	ND	ND	ND
Chlorobenzene	-	ND	ND	ND	ND
Chloroethane	-	ND	ND	ND	ND
Chloroform	-	ND	ND	ND	ND
Chloromethane	-	ND	ND	ND	ND
Carbon disulfide	-	ND	ND	ND	ND
Carbon tetrachloride	-	0.38	0.38	0.38	0.38
Cyclohexane	-	ND	0.69	ND	ND
Dibromochloromethane	-	ND	ND	ND	ND
1,2-Dibromoethane	-	ND	ND	ND	ND
1,2-Dichlorobenzene	-	ND	ND	ND	ND
1,3-Dichlorobenzene	-	ND	ND	ND	ND
1,4-Dichlorobenzene	-	ND	ND	ND	ND
Dichlorodifluoromethane	-	ND	2.4	2.5	2.4
1,1-Dichloroethane	-	ND	ND	ND	ND
1,2-Dichloroethane	-	ND	ND	ND	ND
1,1-Dichloroethene	-	ND	ND	ND	ND
1,2-Dichloroethene (cis)	-	ND	ND	ND	ND
1,2-Dichloroethene (trans)	-	ND	ND	ND	ND
1,2-Dichloropropane	-	ND	ND	ND	ND
1,3-Dichloropropene (cis)	-	ND	ND	ND	ND
1,3-Dichloropropene (trans)	-	ND	ND	ND	ND
1,3-Dichloropropene - TOTAL	-	ND	ND	ND	ND
1,2-Dichlorotetrafluoroethane	-	ND	ND	ND	ND
1,4-Dioxane	-	ND	ND	ND	ND
Ethylbenzene	-	1.5	ND	1.7	ND
n-Heptane	-	ND	ND	ND	ND
1,3-Hexachlorobutadiene	-	ND	ND	ND	ND
n-Hexane	-	0.95	1.1	0.88	1.2
Methylene chloride	60	3.2	3.1	4.2	4.2
Methyl ethyl ketone	-	1.0	1.1	1.0	1.2
Methyl isobutyl ketone	-	ND	ND	ND	2.1
Methyl tert-butyl ether	-	ND	ND	ND	ND
Styrene	-	ND	ND	ND	ND
Tert-butyl alcohol	-	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	-	ND	ND	ND	ND
Tetrachloroethene	100	12	8.3	16	ND
Toluene	-	5.0	2.6	5.5	4.2
1,2,4-Trichlorobenzene	-	ND	ND	ND	ND
1,1,1-Trichloroethane	-	ND	ND	ND	ND
1,1,2-Trichloroethane	-	ND	ND	ND	ND
Trichloroethene	5	0.38	0.38	0.48	ND
Trichlorofluoromethane	-	1.5	1.4	1.2	1.4
1,1,2-Trichloro-1,2,2-trifluoroethane	-	ND	ND	ND	ND
1,2,4-Trimethylbenzene	-	2.3	ND	2.5	ND
1,3,5-Trimethylbenzene	-	ND	ND	ND	ND
2,2,4-Trimethylpentane	-	2.5	1.5	2.5	0.93
Vinyl bromide	-	ND	ND	ND	ND
Vinyl chloride	-	ND	ND	ND	ND
Xylenes (m&p)	-	5.4	ND	6.2	1.8
Xylenes (o)	-	2.4	ND	2.6	ND
Xylenes - TOTAL	-	7.8	ND	8.8	1.8



Table 5
Ambient Air Sampling Results
27-10 49th Avenue, Long Island City, New York
Remedial Investigation Report

Sample ID York ID Sampling Date Client Matrix	Air Guideline Value (ug/m3)	B-2	B-4	C-7	11-6-DUP	AA
		18K0273-01 11/6/2018 11:00:00 AM Indoor Ambient Air	18K0273-02 11/6/2018 11:03:00 AM Indoor Ambient Air	18K0273-03 11/6/2018 11:04:00 AM Indoor Ambient Air	18K0273-04 11/6/2018 12:00:00 AM Indoor Ambient Air	18K0273-05 11/6/2018 11:05:00 AM Outdoor Ambient Air
Compound		Result ug/m3	Result ug/m3	Result ug/m3	Result ug/m3	Result ug/m3
Volatile Organics, EPA TO15 Full List	-	-	-	-	-	-
Dilution Factor	-	0.777	0.993	0.94	0.831	0.777
1,1,1,2-Tetrachloroethane	-	0.530	0.680	0.650	0.570	0.530
1,1,1-Trichloroethane	-	0.420	6.600	0.510	0.450	0.420
1,1,2,2-Tetrachloroethane	-	0.530	0.680	0.650	0.570	0.530
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	-	0.600	0.760	0.720	0.640	0.600
1,1,2-Trichloroethane	-	0.420	0.540	0.510	0.450	0.420
1,1-Dichloroethane	-	0.310	4.400	0.380	0.340	0.310
1,1-Dichloroethylene	-	0.0770	0.430	0.0930	0.0820	0.0770
1,2,4-Trichlorobenzene	-	0.580	0.740	0.700	0.620	0.580
1,2,4-Trimethylbenzene	-	0.880	1.300	0.740	0.980	0.650
1,2-Dibromoethane	-	0.600	0.760	0.720	0.640	0.600
1,2-Dichlorobenzene	-	0.470	0.600	0.570	0.500	0.470
1,2-Dichloroethane	-	0.310	0.400	0.380	0.340	0.310
1,2-Dichloropropane	-	0.360	0.460	0.430	0.380	0.360
1,2-Dichlorotetrafluoroethane	-	0.540	0.690	0.660	0.580	2.900
1,3,5-Trimethylbenzene	-	0.380	0.490	0.460	0.410	0.380
1,3-Butadiene	-	0.520	0.660	0.620	0.550	0.520
1,3-Dichlorobenzene	-	0.470	0.600	0.570	0.500	0.470
1,3-Dichloropropane	-	0.360	0.460	0.430	0.380	0.360
1,4-Dichlorobenzene	-	0.470	0.600	0.570	0.500	0.470
1,4-Dioxane	-	0.560	0.720	0.680	0.600	0.560
2-Butanone	-	1.100	1.400	1.200	1.100	0.940
2-Hexanone	-	0.640	0.810	0.770	0.680	1.300
3-Chloropropene	-	1.200	1.600	1.500	1.300	1.200
4-Methyl-2-pentanone	-	0.320	0.410	0.390	0.340	0.320
Acetone	-	7.200	8.300	8	8	6.500
Acrylonitrile	-	0.170	0.220	0.200	0.180	0.170
Benzene	-	0.770	0.950	0.810	0.820	0.820
Benzyl chloride	-	0.400	0.510	0.490	0.430	0.400
Bromodichloromethane	-	0.520	0.670	0.630	0.560	0.520
Bromoform	-	0.800	1	0.970	0.860	0.800
Bromomethane	-	0.300	0.390	0.370	0.320	0.300
Carbon disulfide	-	0.240	0.310	0.290	0.260	0.240
Carbon tetrachloride	-	0.340	0.440	0.300	0.310	0.340
Chlorobenzene	-	0.360	0.460	0.430	0.380	0.360
Chloroethane	-	0.210	0.260	0.250	0.220	0.210
Chloroform	-	0.380	0.480	0.460	0.410	0.380
Chloromethane	-	1.700	0.210	0.190	0.170	0.870
cis-1,2-Dichloroethylene	-	0.0770	0.0980	0.0930	0.0820	0.120
cis-1,3-Dichloropropylene	-	0.350	0.450	0.430	0.380	0.350
Cyclohexane	-	0.350	0.480	0.390	0.400	0.370
Dibromochloromethane	-	0.660	0.850	0.800	0.710	0.660
Dichlorodifluoromethane	-	1.300	1.600	1.600	1.600	1.700
Ethyl acetate	-	0.620	0.820	0.750	0.810	0.590
Ethyl Benzene	-	0.710	0.910	0.690	0.720	0.640
Hexachlorobutadiene	-	0.830	1.100	1	0.890	0.830
Isopropanol	-	2.700	3.400	2.900	4	2.200
Methyl Methacrylate	-	1.200	0.410	0.770	0.370	0.640
Methyl tert-butyl ether (MTBE)	-	0.280	0.360	0.340	0.300	0.280
Methylene chloride	60	12	2.300	8.300	4.300	5
n-Heptane	-	0.480	0.690	0.540	0.580	0.670
n-Hexane	-	0.820	1.100	0.960	1	0.930
o-Xylene	-	0.780	0.990	0.690	0.760	0.640
p- & m- Xylenes	-	2.300	3	2.100	2.400	2
p-Ethyltoluene	-	0.800	1.200	0.740	0.900	0.380
Propylene	-	1.600	1.900	1.800	1.900	1.700
Styrene	-	0.330	0.420	0.400	0.350	0.330
Tetrachloroethylene	100	10	96	10	10	1.100
Tetrahydrofuran	-	0.460	0.590	0.550	0.490	0.460
Toluene	-	4.500	5.300	4.400	4.500	3.700
trans-1,2-Dichloroethylene	-	0.310	0.390	0.370	0.330	0.310
trans-1,3-Dichloropropylene	-	0.350	0.450	0.430	0.380	0.350
Trichloroethylene	5	0.630	11	0.130	0.270	0.100
Trichlorofluoromethane (Freon 11)	-	1.100	1.800	1.200	1.200	1.200
Vinyl acetate	-	0.270	0.350	0.330	0.290	0.270
Vinyl bromide	-	0.340	0.430	0.410	0.360	0.340
Vinyl Chloride	-	0.0500	0.0630	0.0600	0.0530	0.0500

Q is the Qualifier Column with definitions as follows:

- D=result is from an analysis that required a dilution
- J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated
- U=analyte not detected at or above the level indicated
- B=analyte found in the analysis batch blank
- E=result is estimated and cannot be accurately reported due to levels encountered or interferences
- P=this flag is used for pesticide and PCB (Aroclor) target compounds when there is a % difference for detected concentrations that exceed method dictated limits between the two GC columns used for analysis
- NT=this indicates the analyte was not a target for this sample
- ~this indicates that no regulatory limit has been established for this analyte



Table 6
Groundwater Sampling Results for PFOA and 1,4 Dioxane
27-10 49th Avenue, Long Island City, New York
Remedial Investigation Report

Sample #:	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10
	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
PFOA (ppt)	253.9	265.9	125.5	141.4	71.5	57.1	57.5	65.9	507	99.5
1,4 Dioxane (ppb)	1.1	1.2	ND	1.0	ND	ND	ND	ND	0.88	0.21



Appendix A
Boring Logs



BORING SB-56

PROJECT NUMBER: 37321

SATURATED SOIL AT: 15

PROJECT CODE: STX

GROUND SURFACE ELEVATION: NA

LOCATION: 27-10 49th Avenue

CHECKED BY: Seamus Kelly

CLIENT: Hunters Point SG, LLC

LOGGED BY: Rebeca Garofalo

DATE STARTED/COMPLETED: 11/13/2018

CONTRACTOR: Eastern Environmental Solutions

Depth (FT BGS)	US CS	Graphic Symbol	PID (ppm)	DESCRIPTION	REMARKS
1			0	0-3" Asphalt and Concrete 3"-1' Brown M-F SAND	2.5' of recovery
2			0	1'-2' Fill material (Brick)	Sample SB-56A collected at 2-2.5'
3			0	2'-5' Brown M-F SAND with some silt and fill material (asphalt, brick, concrete, ash)	
4			0	Moist, No Odor	
5	Fill		0		
6			0	5-6' Brown M-F SAND with some fine gravel and trace of clay	4' of recovery
7	SW		0	6-7' Brown F SAND with some fine gravel	Sample SB-56B collected at 7-7.5'
8	Fill		0	7-10' Black M-F SILTY SAND with trace of clay (fill material)	Sample SB-56C collected at 8-8.5'
9			0	Moist, No Odor	
10			0		
11			0	10-15' Brown M-F SAND with some silt and a trace of clay	4' of recovery
12			0		
13	SM		0	Moist, No Odor	
14			0		
15			0		Saturated soil at 15'

Notes: Backfilled on Completion.



ATLANTIC ENVIRONMENTAL SOLUTIONS, INC.

5 Marine View Plaza-Suite 401
Hoboken, NJ 07030

LOG OF: **SB-56**

BORING SB-57

PROJECT NUMBER: 37321

SATURATED SOIL AT: 12

PROJECT CODE: STX

GROUND SURFACE ELEVATION: NA

LOCATION: 27-10 49th Avenue

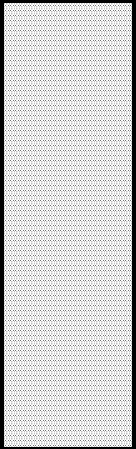
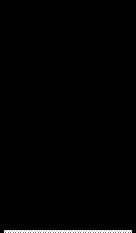
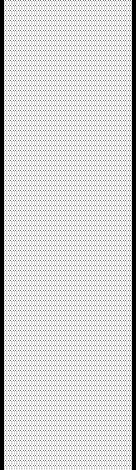
CHECKED BY: Seamus Kelly

CLIENT: Hunters Point SG, LLC

LOGGED BY: Rebeca Garofalo

DATE STARTED/COMPLETED: 11/13/2018

CONTRACTOR: Eastern Environmental Solutions

Depth (FT BGS)	US CS	Graphic Symbol	PID (ppm)	DESCRIPTION	REMARKS	
1	SM		0	0-3" Asphalt and Concrete	2.0' of recovery	
2			0	3"-5' Brown M-F SAND with a trace of silt		
3			0			
4			0		Moist, No Odor	
5			0	5-6' Brown M-F SAND with a trace of silt	4' of recovery	
6	0					
7	Fill		0		6-9' Brown M- F SAND with fill material	Sample SB-57B collected at 6.5-7.0'
8			0		9-10' Brown M-F SILTY SAND Moist, No Odor	Sample SB-57C collected at 8-8.5'
9	0					
10	0					
11	SM		0	10-15' Brown M-F SILTY SAND	2' of recovery	
12			0	Moist, No Odor	Saturated soil at 12'	
13			0			
14			0			
15			0			

Notes: Backfilled on Completion.



ATLANTIC ENVIRONMENTAL SOLUTIONS, INC.

5 Marine View Plaza-Suite 401
Hoboken, NJ 07030

LOG OF: **SB-57**

BORING SB-58

PROJECT NUMBER: 37321

SATURATED SOIL AT: NA

PROJECT CODE: STX

GROUND SURFACE ELEVATION: NA

LOCATION: 27-10 49th Avenue

CHECKED BY: Seamus Kelly

CLIENT: Hunters Point SG, LLC

LOGGED BY: Rebeca Garofalo

DATE STARTED/COMPLETED: 11/13/2018

CONTRACTOR: Eastern Environmental Solutions

Depth (FT BGS)	US CS	Graphic Symbol	PID (ppm)	DESCRIPTION	REMARKS
1			0	0-3" Asphalt and Concrete	2' of recovery
2			0.1	3"-5' Brown M-F SAND with a trace of silt	Sample SB-58A collected at 2-2.5'
3			0		
4			0.1	Moist, No Odor	
5	SM		0		
6			0	5-7.5' Fill material (asphalt, brick, concrete, ash)	2' of recovery
7			0	7.5-8.5' Gray F SAND with some silt and a trace of clay	
8	Fill		0	8.5-10' Fill material (asphalt, brick, concrete, ash)	Sample SB-58C collected at 8-8.5'
9			0		
10			0	Moist, No Odor	Sample SB-58B collected at 9.5-10'

Notes: Backfilled on Completion.



ATLANTIC ENVIRONMENTAL SOLUTIONS, INC.

5 Marine View Plaza-Suite 401
Hoboken, NJ 07030

LOG OF: **SB-58**

BORING SB-59

PROJECT NUMBER: 37321

SATURATED SOIL AT: 15

PROJECT CODE: STX

GROUND SURFACE ELEVATION: NA

LOCATION: 27-10 49th Avenue

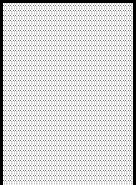
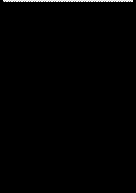
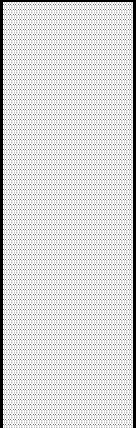
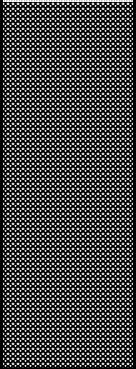
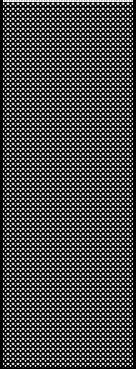
CHECKED BY: Seamus Kelly

CLIENT: Hunters Point SG, LLC

LOGGED BY: Rebeca Garofalo

DATE STARTED/COMPLETED: 11/13/2018

CONTRACTOR: Eastern Environmental Solutions

Depth (FT BGS)	US CS	Graphic Symbol	PID (ppm)	DESCRIPTION	REMARKS
1	SM		0.1	0-3" Asphalt and Concrete	3' of recovery Sample SB-59A collected at 2-2.5'
2			0.1	3"-2.5' Brown M-F SAND with a trace of silt	
3			0.1	2.5-5' Brown M-F SAND with fill material (asphalt, brick, concrete, ash)	
4	Fill		0.2	Moist, No Odor	Sample SB-59B collected at 2.5-3'
5			0		
6			0		
7	SM		0	5-9' Red to Brown M-F SAND with trace of silt	1.5' of recovery Sample SB-59C collected at 8-8.5'
8			0		
9			0		
10	OH		0	9-10' Black F SAND with trace of silt Moist, Decomposition odor	4' of recovery
11			0	10-13' Gray F SAND with some clay and a trace of silt	
12			0		
13			0.2	13-15' Organic Material	Saturated soil at 15'
14			0		
15			0	Moist, Decomposition odor	

Notes: Backfilled on Completion.



ATLANTIC ENVIRONMENTAL SOLUTIONS, INC.

5 Marine View Plaza-Suite 401
Hoboken, NJ 07030

LOG OF: **SB-59**

BORING SB-60

PROJECT NUMBER: 37321

SATURATED SOIL AT: 12

PROJECT CODE: STX

GROUND SURFACE ELEVATION: NA

LOCATION: 27-10 49th Avenue

CHECKED BY: Seamus Kelly

CLIENT: Hunters Point SG, LLC

LOGGED BY: Rebeca Garofalo

DATE STARTED/COMPLETED: 11/13/2018

CONTRACTOR: Eastern Environmental Solutions

Depth (FT BGS)	US CS	Graphic Symbol	PID (ppm)	DESCRIPTION	REMARKS
1	SM	[Hatched Pattern]	0.2	0-3" Asphalt and Concrete	3' of recovery
2			0.2	3"-2.5' Brown M-F SAND with a trace of silt	
3	Fill	[Solid Black]	0.1	2.5-5' Brown M-F SAND with fill material (asphalt, brick, concrete, ash)	Sample SB-60A collected at 2-2.5'
4			0	Moist, No Odor	
5			0		
6	SM	[Hatched Pattern]	0		1.5' of recovery
7			0	5-9' Red to Brown M-F SAND with trace of silt	
8			0		
9			0		
10	SM	[Hatched Pattern]	0	9-10' Black F SAND with trace of silt	Sample SB-60C collected at 8-8.5'
11			0	Moist, Decomposition odor	
12	Fill	[Solid Black]	0	10-11' Fill material (asphalt, brick, concrete, ash)	3' of recovery
13			0.2	11-13' Brown M-F SAND with fill material (asphalt, brick, concrete, ash)	
14			0	13-15' Black F SAND with fill material (asphalt, brick, concrete, ash)	
15			0	Moist, No Odor	Saturated soil at 12'

Notes: Backfilled on Completion.



ATLANTIC ENVIRONMENTAL SOLUTIONS, INC.

5 Marine View Plaza-Suite 401
Hoboken, NJ 07030

LOG OF: **SB-60**

BORING SB-61

PROJECT NUMBER: 37321

SATURATED SOIL AT: 15

PROJECT CODE: STX

GROUND SURFACE ELEVATION: NA

LOCATION: 27-10 49th Avenue

CHECKED BY: Seamus Kelly

CLIENT: Hunters Point SG, LLC

LOGGED BY: Rebeca Garofalo

DATE STARTED/COMPLETED: 11/13/2018

CONTRACTOR: Eastern Environmental Solutions

Depth (FT BGS)	US CS	Graphic Symbol	PID (ppm)	DESCRIPTION	REMARKS
				0-3" Asphalt and Concrete	
1			0		3' of recovery
2			0	3"-5' Brown M-F SAND with fill material (asphalt, brick, concrete, ash)	Sample SB-61A collected at 2-2.5'
3			0		
4			0		
5			0	Moist, No Odor	
6			0		3' of recovery
7			0	5-10' Red to Brown M-F SAND with trace of silt and fill material (asphalt, brick, concrete, ash)	Sample SB-61B collected at 6-6.5'
8	Fill		0		Sample SB-61C collected at 8-8.5'
9			0		
10			1.8	Moist, No Odor	
11			0		1.5' of recovery
12			0	10-15' Brown M-F SAND with trace of silt and some gravel	
13			0.2		
14			0		
15			0	Moist, No Odor	Saturated soil at 15'

Notes: Backfilled on Completion.



ATLANTIC ENVIRONMENTAL SOLUTIONS, INC.

5 Marine View Plaza-Suite 401
Hoboken, NJ 07030

LOG OF: SB-61

BORING SB-62

PROJECT NUMBER: 37321

SATURATED SOIL AT: NA

PROJECT CODE: STX

GROUND SURFACE ELEVATION: NA

LOCATION: 27-10 49th Avenue

CHECKED BY: Seamus Kelly

CLIENT: Hunters Point SG, LLC

LOGGED BY: Rebeca Garofalo

DATE STARTED/COMPLETED: 11/13/2018

CONTRACTOR: Eastern Environmental Solutions

Depth (FT BGS)	US CS	Graphic Symbol	PID (ppm)	DESCRIPTION	REMARKS
1	SM		0.1	0-3" Asphalt and Concrete	3' of recovery
2			0.1	3"-2.5' Brown M-F SAND with a trace of silt	
3			0.1	2.5-5' Brown M-F SAND with fill material (asphalt, brick, concrete, ash)	
4			0.2	Moist, No Odor	
5	Fill		0		
6			102.1	5-6.5' Fill material (asphalt, brick, concrete, ash)	4.2' of recovery Sample SB-62 collected at 8-8.5'
7			396.7	6.5-10' Brown F SAND with some clay and a trace of silt	
8	SM		293.2		
9			256.9		
10			25	Moist, Petroleum Odor	

Notes: Backfilled on Completion.



ATLANTIC ENVIRONMENTAL SOLUTIONS, INC.

5 Marine View Plaza-Suite 401
Hoboken, NJ 07030

LOG OF: **SB-62**

BORING SB-63

PROJECT NUMBER: 37321

SATURATED SOIL AT: NA

PROJECT CODE: STX

GROUND SURFACE ELEVATION: NA

LOCATION: 27-10 49th Avenue

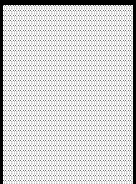
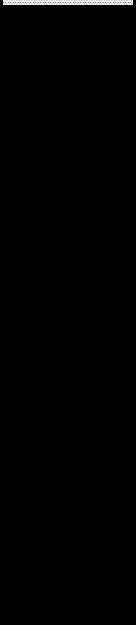
CHECKED BY: Seamus Kelly

CLIENT: Hunters Point SG, LLC

LOGGED BY: Rebeca Garofalo

DATE STARTED/COMPLETED: 11/13/2018

CONTRACTOR: Eastern Environmental Solutions

Depth (FT BGS)	US CS	Graphic Symbol	PID (ppm)	DESCRIPTION	REMARKS
1	SM		0.1	0-3" Asphalt and Concrete	2' of recovery
2			0.1	3"-2.5' Brown M-F SAND with a trace of silt	
3	Fill		0.1	2.5-5' Brown M-F SAND with fill material (asphalt, brick, concrete, ash)	3.5' of recovery
4			0.2	Moist, No Odor	
5			0		
6			113.6	5-10' Fill material (asphalt, brick, concrete, ash)	
7			247.8		Sample SB-63 collected at 8-8.5'
8			74.2		
9			56.3		
10			105.3	Moist, Petroleum Odor	

Notes: Backfilled on Completion.



ATLANTIC ENVIRONMENTAL SOLUTIONS, INC.

5 Marine View Plaza-Suite 401
Hoboken, NJ 07030

LOG OF: **SB-63**

BORING SB-64

PROJECT NUMBER: 37321

SATURATED SOIL AT: 12

PROJECT CODE: STX

GROUND SURFACE ELEVATION: NA

LOCATION: 27-10 49th Avenue

CHECKED BY: Seamus Kelly

CLIENT: Hunters Point SG, LLC

LOGGED BY: Rebeca Garofalo

DATE STARTED/COMPLETED: 11/13/2018

CONTRACTOR: Eastern Environmental Solutions

Depth (FT BGS)	US CS	Graphic Symbol	PID (ppm)	DESCRIPTION	REMARKS
1			0	0-3" Asphalt and Concrete	2.5' of recovery
2			0	3"-5' Fill material (asphalt, brick, concrete, ash)	Sample SB-64A collected at 2-2.5'
3			0		
4			0	Moist, No Odor	
5			0		
6			0	5-10' Fill material (asphalt, brick, concrete, ash)	3.5' of recovery
7			0		
8	Fill		0		Sample SB-64B collected at 8-8.5'
9			0		
10			0	Moist, No Odor	
11			0	10-15' Fill material (asphalt, brick, concrete, ash)	4' of recovery
12			0		Saturated soil at 12'
13			0		
14			0		
15			0	Moist, No Odor	

Notes: Backfilled on Completion. Fill material extended up to 10' therefore SB-64C was not collected



ATLANTIC ENVIRONMENTAL SOLUTIONS, INC.

5 Marine View Plaza-Suite 401
Hoboken, NJ 07030

LOG OF:

SB-64

BORING SB-65

PROJECT NUMBER: 37321

SATURATED SOIL AT: 11

PROJECT CODE: STX

GROUND SURFACE ELEVATION: NA

LOCATION: 27-10 49th Avenue

CHECKED BY: Seamus Kelly

CLIENT: Hunters Point SG, LLC

LOGGED BY: Rebeca Garofalo

DATE STARTED/COMPLETED: 11/13/2018

CONTRACTOR: Eastern Environmental Solutions

Depth (FT BGS)	US CS	Graphic Symbol	PID (ppm)	DESCRIPTION	REMARKS
1	Fill	[Redacted]	0	0-3" Asphalt and Concrete	2.5' of recovery
2			0	3"-5' Fill material (asphalt, brick, concrete, ash)	
3			0		
4			0	Moist, No Odor	
5			0		
6			0	5-10' Fill material (asphalt, brick, concrete, ash)	3.5' of recovery
7			0		
8			0		
9			0		
10			0	Moist, No Odor	

Notes: Backfilled on Completion. Fill material extended up to 10' therefore SB-65C was not collected



ATLANTIC ENVIRONMENTAL SOLUTIONS, INC.

5 Marine View Plaza-Suite 401
Hoboken, NJ 07030

LOG OF: **SB-65**

BORING SB-66

PROJECT NUMBER: 37321

SATURATED SOIL AT: 12

PROJECT CODE: STX

GROUND SURFACE ELEVATION: NA

LOCATION: 27-10 49th Avenue

CHECKED BY: Seamus Kelly

CLIENT: Hunters Point SG, LLC

LOGGED BY: Rebeca Garofalo

DATE STARTED/COMPLETED: 11/13/2018

CONTRACTOR: Eastern Environmental Solutions

Depth (FT BGS)	US CS	Graphic Symbol	PID (ppm)	DESCRIPTION	REMARKS
1			0	0-3" Asphalt and Concrete	2.5' of recovery
2			0	3"-5' Fill material (asphalt, brick, concrete, ash)	Sample SB-66A collected at 2-2.5'
3			0		
4			0	Moist, No Odor	
5	Fill		0		
6			0	5-10' Fill material (asphalt, brick, concrete, ash)	3.5' of recovery
7			0		
8			0		Sample SB-66B collected at 8-8.5'
9			0		
10			0	Moist, No Odor	
11			0	10-13' Fill material (asphalt, brick, concrete, ash)	3.5' of recovery
12			0		Saturated soil at 12'
13			0		
14	OH1		0	13-15' Gray ORGANIC CLAY	
15			0	Moist, No Odor	

Notes: Backfilled on Completion. Fill material extended up to 10' therefore SB-66C was not collected



ATLANTIC ENVIRONMENTAL SOLUTIONS, INC.

5 Marine View Plaza-Suite 401
Hoboken, NJ 07030

LOG OF:

SB-66

BORING SB-67

PROJECT NUMBER: 37321

SATURATED SOIL AT: 11

PROJECT CODE: STX

GROUND SURFACE ELEVATION: NA

LOCATION: 27-10 49th Avenue

CHECKED BY: Seamus Kelly

CLIENT: Hunters Point SG, LLC

LOGGED BY: Rebeca Garofalo

DATE STARTED/COMPLETED: 11/13/2018

CONTRACTOR: Eastern Environmental Solutions

Depth (FT BGS)	US CS	Graphic Symbol	PID (ppm)	DESCRIPTION	REMARKS
1			0	0-3" Asphalt and Concrete	2.5' of recovery
2	Fill		0	3"-2.5' Fill material (asphalt, brick, concrete, ash)	Sample SB-67A collected at 2-2.5'
3			0	2.5-5' BROWN F SAND with trace of silt	
4			0	Moist, No Odor	
5	SM		0		
6			0	5-7.5' BROWN F SAND with trace of silt	4.5' of recovery
7			0		
8	Fill		0	7.5-10' Black F SAND with fill material (asphalt, brick, concrete, ash)	Sample SB-67B collected at 8-8.5'
9			0		
10			0	Moist, No Odor	
11			0	10-15' Black F SAND with fill material (asphalt, brick, concrete, ash)	3.5' of recovery
12			0		Saturated soil at 12'
13			0		
14			0		
15			0	Moist, No Odor	

Notes: Backfilled on Completion. Fill material extended up to 10' therefore SB-67C was not collected



ATLANTIC ENVIRONMENTAL SOLUTIONS, INC.

5 Marine View Plaza-Suite 401
Hoboken, NJ 07030

LOG OF:

SB-67

BORING SB-68

PROJECT NUMBER: 37321

SATURATED SOIL AT: NA

PROJECT CODE: STX

GROUND SURFACE ELEVATION: NA

LOCATION: 27-10 49th Avenue

CHECKED BY: Seamus Kelly

CLIENT: Hunters Point SG, LLC

LOGGED BY: Rebeca Garofalo

DATE STARTED/COMPLETED: 11/13/2018

CONTRACTOR: Eastern Environmental Solutions

Depth (FT BGS)	US CS	Graphic Symbol	PID (ppm)	DESCRIPTION	REMARKS
1			0	0-3" Asphalt and Concrete	2.5' of recovery Sample SB-68A collected at 2-2.5'
2			0	3"-5' Fill material (asphalt, brick, concrete, ash)	
3			0		
4			0	Moist, No Odor	
5			0		
6			0	5-10' ' Fill material (asphalt, brick, concrete, ash)	4' of recovery Sample SB-68B collected at 8-8.5'
7			0		
8	Fill		0		
9			0		
10			0	Moist, No Odor	
11			0	10-15' ' Fill material (asphalt, brick, concrete, ash)	3.5' of recovery
12			0		
13			0		
14			0		
15			0	Moist, No Odor	

Notes: Backfilled on Completion. Fill material extended up to 10' therefore SB-68C was not collected



ATLANTIC ENVIRONMENTAL SOLUTIONS, INC.

5 Marine View Plaza-Suite 401
Hoboken, NJ 07030

LOG OF:

SB-68

BORING SB-69

PROJECT NUMBER: 37321

SATURATED SOIL AT: 13

PROJECT CODE: STX

GROUND SURFACE ELEVATION: NA

LOCATION: 27-10 49th Avenue

CHECKED BY: Seamus Kelly

CLIENT: Hunters Point SG, LLC

LOGGED BY: Rebeca Garofalo

DATE STARTED/COMPLETED: 11/13/2018

CONTRACTOR: Eastern Environmental Solutions

Depth (FT BGS)	US CS	Graphic Symbol	PID (ppm)	DESCRIPTION	REMARKS
1			0	0-3" Asphalt and Concrete	2.5' of recovery Sample SB-69A collected at 2-2.5'
2			0	3"-5' Fill material (asphalt, brick, concrete, ash)	
3			0		
4			0	Moist, No Odor	
5			0		
6			0	5-10' ' Fill material (asphalt, brick, concrete, ash)	4' of recovery Sample SB-69B collected at 8-8.5'
7			0		
8	Fill		0		
9			0		
10			0	Moist, No Odor	
11			0	10-15' ' Fill material (asphalt, brick, concrete, ash)	3.5' of recovery Saturated soil at 13'
12			0		
13			0		
14			0		
15			0	Moist, No Odor	

Notes: Backfilled on Completion. Fill material extended up to 10' therefore SB-69C was not collected



ATLANTIC ENVIRONMENTAL SOLUTIONS, INC.

5 Marine View Plaza-Suite 401
Hoboken, NJ 07030

LOG OF:

SB-69

BORING SB-70

PROJECT NUMBER: 37321

SATURATED SOIL AT: NA

PROJECT CODE: STX

GROUND SURFACE ELEVATION: NA

LOCATION: 27-10 49th Avenue

CHECKED BY: Seamus Kelly

CLIENT: Hunters Point SG, LLC

LOGGED BY: Rebeca Garofalo

DATE STARTED/COMPLETED: 11/14/2018

CONTRACTOR: Eastern Environmental Solutions

Depth (FT BGS)	US CS	Graphic Symbol	PID (ppm)	DESCRIPTION	REMARKS
1	Fill	[Solid Black]	0	0-3" Asphalt and Concrete	2.5' of recovery
2			0	3"-5' Fill material (asphalt, brick, concrete, ash)	
3			0		
4			0	Moist, No Odor	
5					
6	SM	[Dotted Pattern]	0	5-8 Fill material (asphalt, brick, concrete, ash)	4' of recovery
7			0		
8			0	8-10' Brown M-F SAND with some silt and a trace of clay	Sample SB-70B collected at 8-8.5'
9			0		
10			0	Moist, No Odor	
6	SM	[Dotted Pattern]	0	10-15' Brown M-F SAND with some silt and a trace of clay	3.5' of recovery
7			0		
8			0		
9			0		
10			0	Moist, No Odor	

Notes: Backfilled on Completion. Fill material extended up to 10' therefore SB-70C was not collected



ATLANTIC ENVIRONMENTAL SOLUTIONS, INC.

5 Marine View Plaza-Suite 401
Hoboken, NJ 07030

LOG OF:

SB-70

BORING SB-71

PROJECT NUMBER: 37321

SATURATED SOIL AT: NA

PROJECT CODE: STX

GROUND SURFACE ELEVATION: NA

LOCATION: 27-10 49th Avenue

CHECKED BY: Seamus Kelly

CLIENT: Hunters Point SG, LLC

LOGGED BY: Rebeca Garofalo

DATE STARTED/COMPLETED: 11/14/2018

CONTRACTOR: Eastern Environmental Solutions

Depth (FT BGS)	US CS	Graphic Symbol	PID (ppm)	DESCRIPTION	REMARKS
1			0	0-3" Asphalt and Concrete	2.5' of recovery Sample SB-71A collected at 2-2.5'
2			0	3"-5' Fill material (asphalt, brick, concrete, ash)	
3			0		
4			0	Moist, No Odor	
5			0		
6			0	5-10' Fill material (asphalt, brick, concrete, ash)	4' of recovery Sample SB-71B collected at 8-8.5'
7			0		
8	Fill		0		
9			0	7.5-10 ' Fill material (asphalt, brick, concrete, ash) with some clay	
10			0	Moist, No Odor	

Notes: Backfilled on Completion. Fill material extended up to 10' therefore SB-71C was not collected



ATLANTIC ENVIRONMENTAL SOLUTIONS, INC.

5 Marine View Plaza-Suite 401
Hoboken, NJ 07030

LOG OF: SB-71

BORING SB-72

PROJECT NUMBER: 37321

SATURATED SOIL AT: NA

PROJECT CODE: STX

GROUND SURFACE ELEVATION: NA

LOCATION: 27-10 49th Avenue

CHECKED BY: Seamus Kelly

CLIENT: Hunters Point SG, LLC

LOGGED BY: Rebeca Garofalo

DATE STARTED/COMPLETED: 11/14/2018

CONTRACTOR: Eastern Environmental Solutions

Depth (FT BGS)	US CS	Graphic Symbol	PID (ppm)	DESCRIPTION	REMARKS
1			0	0-3" Asphalt and Concrete	2.5' of recovery
2			0.3	3"-5' Fill material (asphalt, brick, concrete, ash)	Sample SB-72A collected at 2-2.5'
3			0.4		
4			0	Moist, No Odor	Sample SB-72B collected at 4-4.5'
5			0		
6			0	5-7.5' Fill material (asphalt, brick, concrete, ash)	4' of recovery
7			0		
8	SM		0	7.5-10' Brown M-F Sand with a trace of silt	Sample SB-72C collected at 8-8.5'
9			0		
10			0	Moist, No Odor	
6			0	10-13' Brown M-F Sand with a trace of silt	4' of recovery
7			0		
8	SM		0		
9			0	13-15' Organic Material	
10			0	Moist, No Odor	

Notes: Backfilled on Completion.



ATLANTIC ENVIRONMENTAL SOLUTIONS, INC.
 5 Marine View Plaza-Suite 401
 Hoboken, NJ 07030

LOG OF: **SB-72**

BORING SB-73

PROJECT NUMBER: 37321

SATURATED SOIL AT: 13

PROJECT CODE: STX

GROUND SURFACE ELEVATION: NA

LOCATION: 27-10 49th Avenue

CHECKED BY: Seamus Kelly

CLIENT: Hunters Point SG, LLC

LOGGED BY: Rebeca Garofalo

DATE STARTED/COMPLETED: 11/14/2018

CONTRACTOR: Eastern Environmental Solutions

Depth (FT BGS)	US CS	Graphic Symbol	PID (ppm)	DESCRIPTION	REMARKS
1	SM		0	0-3" Asphalt and Concrete 3"-1' Brown Coarse M SAND with a trace of silt	2.5' of recovery
2			0.3	1-5' Black M-F SAND with some silt and fill material (asphalt, brick, concrete, ash)	Sample SB-73A collected at 2-2.5'
3	Fill		0.4		
4			0	Moist, No Odor	Sample SB-73B collected at 4-4.5'
5			0		
6			0	5-10' Black M-F SAND with some silt	3' of recovery
7			0		
8	SM		0		Sample SB-73C collected at 8-8.5'
9			0		
10			0	Moist, No Odor	

Notes: Backfilled on Completion.



ATLANTIC ENVIRONMENTAL SOLUTIONS, INC.

5 Marine View Plaza-Suite 401
Hoboken, NJ 07030

LOG OF: **SB-73**

BORING SB-74

PROJECT NUMBER: 37321

SATURATED SOIL AT: NA

PROJECT CODE: STX

GROUND SURFACE ELEVATION: NA

LOCATION: 27-10 49th Avenue

CHECKED BY: Seamus Kelly

CLIENT: Hunters Point SG, LLC

LOGGED BY: Rebeca Garofalo

DATE STARTED/COMPLETED: 11/15/2018

CONTRACTOR: Eastern Environmental Solutions

Depth (FT BGS)	US CS	Graphic Symbol	PID (ppm)	DESCRIPTION	REMARKS
				0-3" Asphalt and Concrete	
1	SW	[Dotted Pattern]	0	3"-2' Brown M-F SAND with some pebbles and a trace of silt	1.5' of recovery
2			0.3		Sample SB-74A collected at 2-2.5'
		[Solid Black]		2-3' Black Coarse M SAND with fill material (asphalt, brick, concrete, ash)	
3			0.4	Moist, No Odor	
					3-6' Black Coarse M SAND with fill material (asphalt, brick, concrete, ash)
4			0		
5			0		
6			0	Moist, No Odor	
		[Solid Black]		6-9' Black Coarse M SAND with fill material (asphalt, brick, concrete, ash)	2' of recovery
7			0		
8	Fill		0		Moist, No Odor
9			0		Saturated Soil at 9'

Notes: Backfilled on Completion. Fill material extended up to 10' therefore SB-74C was not collected



ATLANTIC ENVIRONMENTAL SOLUTIONS, INC.

5 Marine View Plaza-Suite 401
Hoboken, NJ 07030

LOG OF:

SB-74

BORING SB-75

PROJECT NUMBER: 37321

SATURATED SOIL AT: NA

PROJECT CODE: STX

GROUND SURFACE ELEVATION: NA

LOCATION: 27-10 49th Avenue

CHECKED BY: Seamus Kelly

CLIENT: Hunters Point SG, LLC

LOGGED BY: Rebeca Garofalo

DATE STARTED/COMPLETED: 11/15/2018

CONTRACTOR: Eastern Environmental Solutions

Depth (FT BGS)	US CS	Graphic Symbol	PID (ppm)	DESCRIPTION	REMARKS
				0-3" Asphalt and Concrete	
1	SW		0	3"-2' Brown M-F SAND with some pebbles and a trace of silt	1.5' of recovery
2			0.3		Sample SB-75A collected at 2-2.5'
				2-3' Black Coarse M SAND with fill material (asphalt, brick, concrete, ash)	
3			0.4	Moist, No Odor	
				3-6' Black Coarse M SAND with fill material (asphalt, brick, concrete, ash)	2.5' of recovery
4			0		
5			0		
6			0	Moist, No Odor	
				6-9' Black Coarse M SAND with fill material (asphalt, brick, concrete, ash)	2' of recovery
7			0		
8	Fill		0		
				Moist, No Odor	Sample SB-75B collected at 8-8.5'
9			0		

Notes: Backfilled on Completion. Fill material extended up to 10' therefore SB-75C was not collected



ATLANTIC ENVIRONMENTAL SOLUTIONS, INC.

5 Marine View Plaza-Suite 401
Hoboken, NJ 07030

LOG OF:

SB-75

BORING SB-76

PROJECT NUMBER: 37321

SATURATED SOIL AT: NA

PROJECT CODE: STX

GROUND SURFACE ELEVATION: NA

LOCATION: 27-10 49th Avenue

CHECKED BY: Seamus Kelly

CLIENT: Hunters Point SG, LLC

LOGGED BY: Rebeca Garofalo

DATE STARTED/COMPLETED: 11/15/2018

CONTRACTOR: Eastern Environmental Solutions

Depth (FT BGS)	US CS	Graphic Symbol	PID (ppm)	DESCRIPTION	REMARKS
				0-3" Asphalt and Concrete	
1	SW		0	3"-1' Brown M-F SAND with s a trace of silt	1.8' of recovery
2			0	1-3' Black Coarse M SAND with fill material (asphalt, brick, concrete, ash)	Sample SB-76A collected at 2-2.5'
3			0	Moist, No Odor	
				3-6' Black Coarse M SAND with fill material (asphalt, brick, concrete, ash)	2.5' of recovery
4	Fill		0		
5			0		
6			0	Moist, No Odor	
7			0	6-9' Black Coarse M SAND with fill material (asphalt, brick, concrete, ash)	2' of recovery
8			0		
9			0		Sample SB-76B collected at 8-8.5'

Notes: Backfilled on Completion. Fill material extended up to 10' therefore SB-76C was not collected



ATLANTIC ENVIRONMENTAL SOLUTIONS, INC.

5 Marine View Plaza-Suite 401
Hoboken, NJ 07030

LOG OF: **SB-76**

BORING SB-77

PROJECT NUMBER: 37321

SATURATED SOIL AT: NA

PROJECT CODE: STX

GROUND SURFACE ELEVATION: NA

LOCATION: 27-10 49th Avenue

CHECKED BY: Seamus Kelly

CLIENT: Hunters Point SG, LLC

LOGGED BY: Rebeca Garofalo

DATE STARTED/COMPLETED: 11/15/2018

CONTRACTOR: Eastern Environmental Solutions

Depth (FT BGS)	US CS	Graphic Symbol	PID (ppm)	DESCRIPTION	REMARKS
1			0	0-3" Asphalt and Concrete	1.8' of recovery
2			0	3"-3' Black Coarse M SAND with fill material (asphalt, brick, concrete, ash)	Sample SB-77A collected at 2-2.5'
3	Fill		0	Moist, No Odor	
4			0	3-6' Black Coarse M SAND with fill material (asphalt, brick, concrete, ash)	2.5' of recovery
5	SW		0	5-6' Brown M-F SAND with some silt and a trace of clay	Sample SB-77B collected at 5-5.5'
6			0	Moist, No Odor	
7			0	6-9' Black Coarse M SAND with fill material (asphalt, brick, concrete, ash)	2' of recovery
8	Fill		0		
9			0	Moist, No Odor	Sample SB-77C collected at 8-8.5'

Notes: Backfilled on Completion.



ATLANTIC ENVIRONMENTAL SOLUTIONS, INC.

5 Marine View Plaza-Suite 401
Hoboken, NJ 07030

LOG OF: **SB-77**

Appendix B
Purging and sampling of groundwater monitor wells (RIR)



Appendix B
27-10 49th Avenue, Long Island City, New York
Remedial Investigation Report

Address: 27-10 Hunters Point (49th) Avenue, Long Island City, Queens, New York
AESI Case No.:
Date/Time: 11/29/17 5:45
Weather: Temp. 36°F, partly cloudy

Well Permit #:

Well#:	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10
Key #:										
Pre-Purge Data:										
PID / OVM Reading (mu):	0	0	0	0	0	0	0	0	0	0
Product Thickness (ft):	0	0	0	0	0	0	0	0	0	0
Depth to Water (ft):	10.00	10.00	8.43	9.65	10.52	9.51	10.18	11.21	7.79	10.53
Total Depth of Well (ft):	20.15	20.09	20.10	20.00	20.10	20.10	20.10	19.46	20.00	20.10
Well diameter (in):	2	2	2	2	2	2	2	2	2	2
Volume of water in well (gallons):	1.65	1.64	1.90	1.69	1.70	1.73	1.62	1.34	1.99	1.56
Volume of water to purge (x3)(gallons):	4.96	4.93	5.71	5.06	5.14	5.18	4.85	4.03	5.97	4.68
pH:	6.67	7.27	6.93	6.93	6.93	7.38	7.26	7.43	6.27	7.07
Oxygen Reduction Potential (mV):	19.4	-13.3	-5.8	3.5	5.2	-20.9	-15.4	-24.9	43.0	-4.4
Specific conductivity (uS):	5.82	10.8	15.9	6.93	7.96	17	17.7	15.4	7.85	7.18
Turbidity (ntu):	681	209	139	263	0	30	85	173	0	6
Dissolved oxygen (mg/L):	2.29	2.34	2.64	2.48	2.47	3.00	2.78	2.64	2.36	2.81
Temperature (°C):	18.60	17.60	14.80	16.70	16.90	13.30	13.00	15.60	18.30	13.50
Post-Purge Data:										
Purge Start Time:	6:36	6:15	12:04	13:50	12:26	9:08	10:51	11:44	8:21	8:48
Purge Stop Time:	6:56	6:31	12:12	14:11	12:40	9:29	11:11	11:58	8:41	9:01
Purge Method:	pump	pump	pump	pump	pump	pump	pump	pump	pump	pump
Purge Rate (gpm):	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Total Volume Purged (gallons):	5	4	2	5.25	3.5	5.25	5.25	3.5	5	4.25
Depth to Water After Purge (ft):	15.55	18.00	18.00	10.00	18.30	8.51	8.38	18.00	18.00	18.00
pH:	6.63	7.07	7.01	7.15	6.79	7.52	7.75	7.39	6.73	7.04
Oxygen Reduction Potential (mV):	21.4	-4.3	-4.5	-9.0	11.8	-19.5	-42.5	-21.9	15.1	-2.9
Specific conductivity (uS):	5.7	2.16	15.7	5.77	9.2	13.5	17.3	16.7	7.65	6.64
Turbidity (ntu):	451	320	288	116	267	49	93	584	575	61
Dissolved oxygen (mg/L):	2.22	2.34	3.04	2.29	2.87	3.28	3.22	2.62	2.22	2.47
Temperature (°C):	18.60	17.70	12.60	18.00	16.70	10.90	11.70	15.90	19.30	16.40
Before Sampling Data:										
Depth to Water Before Sampling (ft):	10.03	10.06	8.86	9.65	10.62	8.50	8.35	16.40	7.79	10.53
Sampling Start Time:	10:01	9:26	7:57	14:30	7:28 *	16:28	11:12	17:10	15:56	16:35
After Sampling Data:										
Sampling End Time:	10:24	9:52	9:21	15:20	7:51	17:47	11:40	17:56	16:26	17:00
Depth to Water After Sampling (ft):	12.78	13.32	19.53	9.73	17.41	8.50	8.30	18.74	10.53	16.75
pH:	6.75	7.30	6.65	7.42	6.62	7.46	7.69	7.45	7.32	7.19
Oxygen Reduction Potential (mV):	12.7	-17.5	15.0	-23.7	21.3	-25.2	-38.1	-24.3	-18.6	-16.4
Specific conductivity (uS):	5.8	5.75	14.8	5.82	7.56	13.7	13.3	15.9	7.75	7.74
Turbidity (ntu):	323	223	258	215	431	77	107	468	160	165
Dissolved oxygen (mg/L):	2.31	2.14	2.45	2.99	2.57	3.34	3.25	2.51	2.39	3.26
Temperature (°C):	17.80	16.80	16.30	17.30	17.50	11.20	10.90	18.30	18.00	11.20
Sample Method:	bailer	bailer	bailer	bailer	bailer	bailer	bailer	bailer	bailer	bailer
Field Observations										
Recharge Rate (gpm)	0.15	0.01	0.01	0.01	0.01	0.25	0.25	0.01	0.01	0.01
Sheen	no	no	no	no	no	no	no	no	no	no
Odor	no	no	no	no	no	no	no	no	no	no
Turbidity	yes	no	no	no	no	no	no	no	no	no

Notes:

Pump = The purge device used was a peristaltic pump w/ dedicated tubing
 Bailer = The sampling device used was a disposable, dedicated bailer.
 mu - meter units, uS - micro Siemens, mS - milli Siemens, ntu - nephelometric turbidity units
 mg/l - milligrams per liter, gpm - gallons per minute, °C - degrees Celsius, °F - degrees Fahrenheit
 ft - feet below top of PVC casing
 Ground water sampled for VOCs, SVOCs, PCBs for NY TOGS



Appendix C
Laboratory Data Logs



Viridian Project #:

Client:

Site:

Address: 27-10 49th Ave., Queens, NY

On-site Analysis of soil vapor samples

Analysis Method: Modified EPA Method 8021 (GC-PID/ECD)



DATE	Time	SAMPLE Run ID	TCE ug/m3	DL ug/m3	PCE ug/m3	DL ug/m3	Sample ID	tr-1,2-DCE ug/m3	DL ug/m3	cis-1,2-DCE ug/m3	DL ug/m3	TCA ug/m3	DL ug/m3
11/1/2018	8:04	11-01-18E\P01	ND	25	ND	25	N2 Blank	ND	200	ND	200	ND	28
11/1/2018	8:15	11-01-18E\P02	ND	25	ND	25	Outside Air Blank	ND	200	ND	200	ND	28
11/1/2018	8:55	11-0-18E-06	ND	25	420	25	A-15R	ND	200	ND	200	ND	28
11/1/2018	9:02	11-0-18P-07	56	25	14,600	25	A-14R	ND	200	ND	200		
11/1/2018	9:09	11-0-18P-08	730	25	87,100	25	A-13R	ND	200	ND	200		
11/1/2018	9:17	11-0-18P-09	850	25	74,200	25	A-12R	ND	200	ND	200		
11/1/2018	9:23	11-0-18P-10	ND	25	29,300	25	A-11R	ND	200	ND	200		
11/1/2018	9:30	11-0-18P-11	1,800	25	105,700	25	A-10R	ND	200	420	200		
11/1/2018	9:44	11-0-18P-12	130	25	31,700	25	A-6	ND	200	ND	200		
11/1/2018	9:52	11-0-18P-13	2,500	25	36,300	25	B-6	ND	200	ND	200		
11/1/2018	10:00	11-0-18P-14	240	25	12,000	25	C-6	ND	200	ND	200		
11/1/2018	10:06	11-0-18P-15	180	25	54,000	25	D-6	ND	200	ND	200		
11/1/2018	10:18	11-0-18P-16	120	25	13,400	25	B-5	ND	200	ND	200		
11/1/2018	10:23	11-0-18P-17	3,200	25	63,400	25	C-5	ND	200	ND	200		
11/1/2018	10:30	11-0-18P-18	320	25	34,600	25	D-5	ND	200	ND	200		
11/1/2018	10:36	11-0-18P-19	54	25	9,500	25	C-4	ND	200	ND	200		
11/1/2018	10:43	11-0-18P-20	ND	25	20,800	25	D-4	ND	200	ND	200		
11/1/2018	10:53	11-0-18P-21	ND	25	17,900	25	C-3	ND	200	ND	200		
11/1/2018	11:00	11-0-18P-22	ND	25	14,300	25	D-3	ND	200	ND	200		
11/1/2018	11:08	11-0-18P\E-23	ND	25	ND	25	Outside Air Blank	ND	200	ND	200	ND	28
11/1/2018	11:18	11-0-18P-24	63	25	10,400	25	B-3	ND	200	ND	200		
11/1/2018	11:24	11-0-18P-25	60	25	13,600	25	A-3	ND	200	ND	200		
11/1/2018	11:23	11-0-18P-26	ND	25	10,300	25	B-4	ND	200	ND	200		
11/1/2018	11:57	11-0-18P-29	ND	25	2,000	25	C-1	ND	200	ND	200	ND	28
11/1/2018	12:05	11-0-18P-30	ND	25	7,600	25	A-4	ND	200	ND	200		
11/1/2018	12:19	11-0-18E-32	ND	25	490	25	B-1	ND	200	ND	200	ND	28
11/1/2018	12:28	11-0-18P-33	ND	25	5,500	25	B-2	ND	200	ND	200		
11/1/2018	12:39	11-0-18E-34	ND	25	180	25	A-1	ND	200	ND	200	ND	28
11/1/2018	12:46	11-0-18P-35	ND	25	1,900	25	C-2	ND	200	ND	200		
11/1/2018	12:53	11-0-18P-36	ND	25	5,300	25	D1	ND	200	ND	200		
11/1/2018	13:00	11-0-18P-37	ND	25	7,200	25	D-2	ND	200	ND	200		
11/1/2018	13:12	11-0-18P-38	ND	25	17,200	25	A-5	ND	200	ND	200		
11/1/2018	13:18	11-0-18P-39	ND	25	3,300	25	A-2	ND	200	ND	200		
11/1/2018	13:25	11-0-18P-40	ND	25	4,600	25	D-9	ND	200	ND	200		
11/1/2018	13:37	11-0-18E-42	105	25	480	25	D-10	ND	200	ND	200	ND	28
11/1/2018	14:00	11-0-18P-43	2,800	25	56,800	25	C-5R	ND	200	ND	200		
11/1/2018	14:07	11-0-18P-44	64	25	20,900	25	D-4R	ND	200	ND	200		
11/1/2018	14:12	11-0-18P-45	310	25	33,400	25	D-5R	ND	200	ND	200		
11/1/2018	14:19	11-0-18P-46	140	25	48,600	25	D-6R	ND	200	ND	200		
11/1/2018	14:25	11-0-18P-47	370	25	15,000	25	D-13R	ND	200	ND	200		
11/1/2018	14:31	11-0-18P-48	ND	25	13,900	25	C-3R	ND	200	ND	200		
11/1/2018	14:38	11-0-18P-49	ND	25	ND	25	Outside Air Blank	ND	200	ND	200	ND	28

ND for 8021 PID (P)/ ECD (E) indicates not detected at DL (Detection Limit) 25 ug/m3 for TCE, 25 ug/m3 for PCE in subslab samples

Analysis performed by: _____ Date: _____

Viridian Project #:
 Client:
 Site: Black Bear Co.
 Address: 27-10 49th Ave., Queens, NY
 On-site Analysis of soil vapor samples
 Analysis Method: Modified EPA Method 8021 (GC-PID/ECD)



DATE	Time	SAMPLE Run ID	TCE ug/m3	DL ug/m3	PCE ug/m3	DL ug/m3	Sample ID	tr-1,2-DCE ug/m3	DL ug/m3	cis-1,2-DCE ug/m3	DL ug/m3	TCA ug/m3	DL ug/m3
10/30/2018	9:10	10-30-18EIP05	ND	25	ND	25	Inside Air Blank	ND	200	ND	200	ND	28
10/30/2018	9:15	10-30-18E-06	ND	25	ND	25	Inside Air Blank	ND	200	ND	200	ND	28
10/30/2018	9:22	10-30-18E-07	ND	25	ND	25	Outside Air Blank	ND	200	ND	200	ND	28
10/30/2018	9:28	10-30-18E-08	ND	25	ND	25	N2 Blank	ND	200	ND	200	ND	28
10/30/2018	9:39	10-30-18E-10	8	25	270	25	A-15	ND	200	ND	200	ND	28
10/30/2018	9:47	10-30-18E-11	49	25	400	25	B-15	ND	200	ND	200	ND	28
10/30/2018	9:54	10-30-18E-12	45	25	280	25	C-15	ND	200	ND	200	ND	28
10/30/2018	10:01	10-30-18E-13	9	25	38	25	D-15	ND	200	ND	200	ND	28
10/30/2018	10:20	10-30-18P-14	140	25	22,000	25	A-14	ND	200	ND	200	ND	28
10/30/2018	10:30	10-30-18P-15	110	25	7,900	25	B-14	ND	200	ND	200		28
10/30/2018	10:38	10-30-18P-16	105	25	6,100	25	C-14	ND	200	ND	200		28
10/30/2018	10:47	10-30-18P-17	ND	25	1,100	25	D-14	ND	200	ND	200		28
10/30/2018	10:54	10-30-18P-18	710	25	97,700	25	A13	21	200	190	200		28
10/30/2018	11:02	10-30-18P-19	710	25	33,800	25	B-13	ND	200	390	200		28
10/30/2018	11:08	10-30-18P-20	120	25	5,100	25	C-13	ND	200	ND	200		28
10/30/2018	11:16	10-30-18P-21	240	25	11,800	25	D-13	ND	200	ND	200		28
10/30/2018	11:22	10-30-18P/E-22	ND	25	ND	25	Inside Air Blank	ND	200	ND	200	ND	28
10/30/2018	11:34	10-30-18P-23	940	25	44,700	25	A-11	ND	200	220	200		28
10/30/2018	11:41	10-30-18P-24	1,900	25	51,800	25	B-11	ND	200	550	200		28
10/30/2018	11:49	10-30-18P-25	9,900	25	8,600	25	C-11	ND	200	3,100	200		28
10/30/2018	11:56	10-30-18P-26	100	25	3,500	25	D-11	ND	200	ND	200		28
10/30/2018	12:17	10-30-18P-27	3,800	25	100,000	25	A-10	ND	200	3,300	200		28
10/30/2018	12:23	10-30-18P-28	1,100	25	41,600	25	B-10	ND	200	1,100	200		28
10/30/2018	12:31	10-30-18P-29	98	25	14,600	25	C-10	ND	200	ND	200		28
10/30/2018	12:43	10-30-18P-30	530	25	16,000	25	A-12	ND	200	ND	200		28
10/30/2018	12:49	10-30-18P-31	1,400	25	57,400	25	B-12	ND	200	1,500	200		28
10/30/2018	12:55	10-30-18P-32	110	25	6,100	25	C-12	ND	200	ND	200		28
10/30/2018	13:08	10-30-18E-34	9	25	125	25	D-12	ND	200	ND	200	ND	28
10/30/2018	13:22	10-30-18P-35	260	25	20,400	25	A-9	130	200	990	200		28
10/30/2018	13:29	10-30-18P-36	590	25	23,300	25	B-9	ND	200	ND	200		28
10/30/2018	13:36	10-30-18P-37	ND	25	4,700	25	C-9	ND	200	ND	200		28
10/30/2018	13:45	10-30-18EIP-38	ND	25	ND	25	Outside Air Blank	ND	200	ND	200	ND	28
10/30/2018	13:52	10-30-18P-39	ND	25	14,700	25	A-8	ND	200	ND	200		28
10/30/2018	14:02	10-30-18P-40	140	25	11,700	25	B-8	ND	200	ND	200		28
10/30/2018	14:16	10-30-18P-41	200	25	7,500	25	C-8	ND	200	ND	200		28
10/30/2018	14:22	10-30-18P-42	130	25	7,200	25	D-8	ND	200	ND	200		28
10/30/2018	14:35	10-30-18P-43	190	25	3,300	25	A-7	ND	200	ND	200		28
10/30/2018	14:42	10-30-18P-44	120	25	8,950	25	B-7	ND	200	ND	200		28
10/30/2018	14:49	10-30-18P-45	400	25	20,600	25	C-7	ND	200	ND	200		28
10/30/2018	14:56	10-30-18P-46	150	25	17,000	25	D-7	ND	200	ND	200		28

ND for 8021 PID (P)/ ECD (E) indicates not detected at DL (Detection Limit) 25 ug/m3 for TCE, 25 ug/m3 for PCE in subslab samples

Analysis performed by: _____ Date: _____

Viridian Project #:

Client:

Site:

Address: 27-10 49th Ave., Queens, NY

On-site Analysis of soil vapor samples

Analysis Method: Modified EPA Method 8021 (GC-PID/ECD)



Viridian[®] Inc.
Environmental Field Services

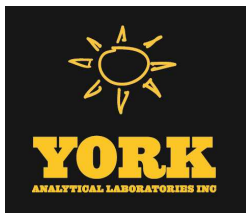
DATE	Time	SAMPLE Run ID	TCE		PCE		Sample ID	tr-1,2-DCE		cis-1,2-DCE		TCA	
			ug/m3	DL ug/m3	ug/m3	DL ug/m3		ug/m3	DL ug/m3	ug/m3	DL ug/m3	ug/m3	DL ug/m3
11/1/2018	8:04	11-01-18E\P01	ND	25	ND	25	N2 Blank	ND	200	ND	200	ND	28
11/1/2018	8:15	11-01-18E\P02	ND	25	ND	25	Outside Air Blank	ND	200	ND	200	ND	28
11/1/2018	8:55	11-0-18E-06	ND	25	420	25	A-15R	ND	200	ND	200	ND	28
11/1/2018	9:02	11-0-18P-07	56	25	14,600	25	A-14R	ND	200	ND	200		
11/1/2018	9:09	11-0-18P-08	730	25	87,100	25	A-13R	ND	200	ND	200		
11/1/2018	9:17	11-0-18P-09	850	25	74,200	25	A-12R	ND	200	ND	200		
11/1/2018	9:23	11-0-18P-10	ND	25	29,300	25	A-11R	ND	200	ND	200		
11/1/2018	9:30	11-0-18P-11	1,800	25	105,700	25	A-10R	ND	200	420	200		
11/1/2018	9:44	11-0-18P-12	130	25	31,700	25	A-6	ND	200	ND	200		
11/1/2018	9:52	11-0-18P-13	2,500	25	36,300	25	B-6	ND	200	ND	200		
11/1/2018	10:00	11-0-18P-14	240	25	12,000	25	C-6	ND	200	ND	200		
11/1/2018	10:06	11-0-18P-15	180	25	54,000	25	D-6	ND	200	ND	200		
11/1/2018	10:18	11-0-18P-16	120	25	13,400	25	B-5	ND	200	ND	200		
11/1/2018	10:23	11-0-18P-17	3,200	25	63,400	25	C-5	ND	200	ND	200		
11/1/2018	10:30	11-0-18P-18	320	25	34,600	25	D-5	ND	200	ND	200		
11/1/2018	10:36	11-0-18P-19	54	25	9,500	25	C-4	ND	200	ND	200		
11/1/2018	10:43	11-0-18P-20	ND	25	20,800	25	D-4	ND	200	ND	200		
11/1/2018	10:53	11-0-18P-21	ND	25	17,900	25	C-3	ND	200	ND	200		
11/1/2018	11:00	11-0-18P-22	ND	25	14,300	25	D-3	ND	200	ND	200		
11/1/2018	11:08	11-0-18P\E-23	ND	25	ND	25	Outside Air Blank	ND	200	ND	200	ND	28
11/1/2018	11:18	11-0-18P-24	63	25	10,400	25	B-3	ND	200	ND	200		
11/1/2018	11:24	11-0-18P-25	60	25	13,600	25	A-3	ND	200	ND	200		
11/1/2018	11:23	11-0-18P-26	ND	25	10,300	25	B-4	ND	200	ND	200		
11/1/2018	11:57	11-0-18P-29	ND	25	2,000	25	C-1	ND	200	ND	200	ND	28
11/1/2018	12:05	11-0-18P-30	ND	25	7,600	25	A-4	ND	200	ND	200		
11/1/2018	12:19	11-0-18E-32	ND	25	490	25	B-1	ND	200	ND	200	ND	28
11/1/2018	12:28	11-0-18P-33	ND	25	5,500	25	B-2	ND	200	ND	200		
11/1/2018	12:39	11-0-18E-34	ND	25	180	25	A-1	ND	200	ND	200	ND	28
11/1/2018	12:46	11-0-18P-35	ND	25	1,900	25	C-2	ND	200	ND	200		
11/1/2018	12:53	11-0-18P-36	ND	25	5,300	25	D1	ND	200	ND	200		
11/1/2018	13:00	11-0-18P-37	ND	25	7,200	25	D-2	ND	200	ND	200		
11/1/2018	13:12	11-0-18P-38	ND	25	17,200	25	A-5	ND	200	ND	200		
11/1/2018	13:18	11-0-18P-39	ND	25	3,300	25	A-2	ND	200	ND	200		
11/1/2018	13:25	11-0-18P-40	ND	25	4,600	25	D-9	ND	200	ND	200		
11/1/2018	13:37	11-0-18E-42	105	25	480	25	D-10	ND	200	ND	200	ND	28
11/1/2018	14:00	11-0-18P-43	2,800	25	56,800	25	C-5R	ND	200	ND	200		
11/1/2018	14:07	11-0-18P-44	64	25	20,900	25	D-4R	ND	200	ND	200		
11/1/2018	14:12	11-0-18P-45	310	25	33,400	25	D-5R	ND	200	ND	200		
11/1/2018	14:19	11-0-18P-46	140	25	48,600	25	D-6R	ND	200	ND	200		
11/1/2018	14:25	11-0-18P-47	370	25	15,000	25	D-13R	ND	200	ND	200		
11/1/2018	14:31	11-0-18P-48	ND	25	13,900	25	C-3R	ND	200	ND	200		
11/1/2018	14:38	11-0-18P-49	ND	25	ND	25	Outside Air Blank	ND	200	ND	200	ND	28

ND for 8021 PID (P)/ ECD (E) indicates not detected at DL (Detection Limit) 25 ug/m3 for TCE, 25 ug/m3 for PCE in subslab samples

Analysis performed by: _____ Date: _____

Appendix D
Laboratory Package





Technical Report

prepared for:

Atlantic Environmental Solutions, Inc.
5 Marine View Plaza, Suite 303
Hoboken NJ, 07030
Attention: Seamus Kelly

Report Date: 11/14/2018
Client Project ID: 37321-STX 27-10 49th Ave.
York Project (SDG) No.: 18K0273

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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@yorklab.com

Report Date: 11/14/2018
Client Project ID: 37321-STX 27-10 49th Ave.
York Project (SDG) No.: 18K0273

Atlantic Environmental Solutions, Inc.
5 Marine View Plaza, Suite 303
Hoboken NJ, 07030
Attention: Seamus Kelly

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 November 08, 2018 and listed below. The project was identified as your project: **37321-STX 27-10 49th Ave.**

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>
18K0273-01	B-2	Indoor Ambient Air	11/06/2018	11/08/2018
18K0273-02	B-4	Indoor Ambient Air	11/06/2018	11/08/2018
18K0273-03	C-7	Indoor Ambient Air	11/06/2018	11/08/2018
18K0273-04	11-6-DUP	Indoor Ambient Air	11/06/2018	11/08/2018
18K0273-05	AA	Outdoor Ambient Ai	11/06/2018	11/08/2018
18K0273-06	C5	Soil Vapor	11/07/2018	11/08/2018
18K0273-07	B6	Soil Vapor	11/07/2018	11/08/2018
18K0273-08	C3	Soil Vapor	11/07/2018	11/08/2018
18K0273-09	D1	Soil Vapor	11/07/2018	11/08/2018
18K0273-10	A10	Soil Vapor	11/07/2018	11/08/2018
18K0273-11	C11	Soil Vapor	11/07/2018	11/08/2018
18K0273-12	B12	Soil Vapor	11/07/2018	11/08/2018
18K0273-13	B14	Soil Vapor	11/07/2018	11/08/2018
18K0273-14	DUP	Soil Vapor	11/07/2018	11/08/2018

General Notes for York Project (SDG) No.: 18K0273

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: 11/14/2018





Sample Information

Client Sample ID: B-2

York Sample ID: 18K0273-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0273

37321-STX 27-10 49th Ave.

Indoor Ambient Air

November 6, 2018 11:00 am

11/08/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m ³	0.53	0.777	EPA TO-15 Certifications:	11/09/2018 13:00	11/10/2018 18:08	AS
71-55-6	1,1,1-Trichloroethane	ND		ug/m ³	0.42	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	0.53	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	0.60	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	0.42	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
75-34-3	1,1-Dichloroethane	ND		ug/m ³	0.31	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	0.077	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	0.58	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
95-63-6	1,2,4-Trimethylbenzene	0.88		ug/m ³	0.38	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
106-93-4	1,2-Dibromoethane	ND		ug/m ³	0.60	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	0.47	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
107-06-2	1,2-Dichloroethane	ND		ug/m ³	0.31	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
78-87-5	1,2-Dichloropropane	ND		ug/m ³	0.36	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	0.54	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m ³	0.38	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
106-99-0	1,3-Butadiene	ND		ug/m ³	0.52	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	0.47	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
142-28-9	* 1,3-Dichloropropane	ND		ug/m ³	0.36	0.777	EPA TO-15 Certifications:	11/09/2018 13:00	11/10/2018 18:08	AS
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	0.47	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
123-91-1	1,4-Dioxane	ND		ug/m ³	0.56	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
78-93-3	2-Butanone	1.1		ug/m ³	0.23	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
591-78-6	* 2-Hexanone	ND		ug/m ³	0.64	0.777	EPA TO-15 Certifications:	11/09/2018 13:00	11/10/2018 18:08	AS



Sample Information

Client Sample ID: B-2

York Sample ID: 18K0273-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0273

37321-STX 27-10 49th Ave.

Indoor Ambient Air

November 6, 2018 11:00 am

11/08/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m ³	1.2	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	0.32	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
67-64-1	Acetone	7.2	CCV-A, QL-03	ug/m ³	0.37	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
107-13-1	Acrylonitrile	ND		ug/m ³	0.17	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
71-43-2	Benzene	0.77		ug/m ³	0.25	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
100-44-7	Benzyl chloride	ND		ug/m ³	0.40	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
75-27-4	Bromodichloromethane	ND		ug/m ³	0.52	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
75-25-2	Bromoform	ND		ug/m ³	0.80	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
74-83-9	Bromomethane	ND		ug/m ³	0.30	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
75-15-0	Carbon disulfide	ND		ug/m ³	0.24	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
56-23-5	Carbon tetrachloride	0.34		ug/m ³	0.12	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
108-90-7	Chlorobenzene	ND		ug/m ³	0.36	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
75-00-3	Chloroethane	ND		ug/m ³	0.21	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
67-66-3	Chloroform	ND		ug/m ³	0.38	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
74-87-3	Chloromethane	1.7		ug/m ³	0.16	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	0.077	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	0.35	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
110-82-7	Cyclohexane	0.35		ug/m ³	0.27	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
124-48-1	Dibromochloromethane	ND		ug/m ³	0.66	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
75-71-8	Dichlorodifluoromethane	1.3		ug/m ³	0.38	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
141-78-6	* Ethyl acetate	0.62		ug/m ³	0.56	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
100-41-4	Ethyl Benzene	0.71		ug/m ³	0.34	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
87-68-3	Hexachlorobutadiene	ND		ug/m ³	0.83	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS



Sample Information

Client Sample ID: B-2

York Sample ID: 18K0273-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0273

37321-STX 27-10 49th Ave.

Indoor Ambient Air

November 6, 2018 11:00 am

11/08/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-63-0	Isopropanol	2.7		ug/m ³	0.38	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
80-62-6	Methyl Methacrylate	1.2		ug/m ³	0.32	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.28	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
75-09-2	Methylene chloride	12		ug/m ³	0.54	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
142-82-5	n-Heptane	0.48		ug/m ³	0.32	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
110-54-3	n-Hexane	0.82		ug/m ³	0.27	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
95-47-6	o-Xylene	0.78		ug/m ³	0.34	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
179601-23-1	p- & m- Xylenes	2.3		ug/m ³	0.67	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
622-96-8	* p-Ethyltoluene	0.80		ug/m ³	0.38	0.777	EPA TO-15 Certifications:	11/09/2018 13:00	11/10/2018 18:08	AS
115-07-1	* Propylene	1.6		ug/m ³	0.13	0.777	EPA TO-15 Certifications:	11/09/2018 13:00	11/10/2018 18:08	AS
100-42-5	Styrene	ND		ug/m ³	0.33	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
127-18-4	Tetrachloroethylene	10		ug/m ³	0.13	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
109-99-9	* Tetrahydrofuran	ND		ug/m ³	0.46	0.777	EPA TO-15 Certifications:	11/09/2018 13:00	11/10/2018 18:08	AS
108-88-3	Toluene	4.5		ug/m ³	0.29	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	0.31	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	0.35	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
79-01-6	Trichloroethylene	0.63		ug/m ³	0.10	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
75-69-4	Trichlorofluoromethane (Freon 11)	1.1		ug/m ³	0.44	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
108-05-4	Vinyl acetate	ND		ug/m ³	0.27	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
593-60-2	Vinyl bromide	ND		ug/m ³	0.34	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
75-01-4	Vinyl Chloride	ND		ug/m ³	0.050	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/09/2018 13:00	11/10/2018 18:08	AS
	Surrogate Recoveries	Result					Acceptance Range			
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	110 %					70-130			



Sample Information

Client Sample ID: B-4

York Sample ID: 18K0273-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0273

37321-STX 27-10 49th Ave.

Indoor Ambient Air

November 6, 2018 11:03 am

11/08/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m ³	0.68	0.993	EPA TO-15 Certifications:	11/12/2018 10:00	11/12/2018 17:43	AS
71-55-6	1,1,1-Trichloroethane	6.6		ug/m ³	0.54	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	0.68	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	0.76	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	0.54	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
75-34-3	1,1-Dichloroethane	4.4		ug/m ³	0.40	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
75-35-4	1,1-Dichloroethylene	0.43		ug/m ³	0.098	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	0.74	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
95-63-6	1,2,4-Trimethylbenzene	1.3		ug/m ³	0.49	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
106-93-4	1,2-Dibromoethane	ND		ug/m ³	0.76	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	0.60	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
107-06-2	1,2-Dichloroethane	ND		ug/m ³	0.40	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
78-87-5	1,2-Dichloropropane	ND		ug/m ³	0.46	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	0.69	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m ³	0.49	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
106-99-0	1,3-Butadiene	ND		ug/m ³	0.66	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	0.60	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
142-28-9	* 1,3-Dichloropropane	ND		ug/m ³	0.46	0.993	EPA TO-15 Certifications:	11/12/2018 10:00	11/12/2018 17:43	AS
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	0.60	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
123-91-1	1,4-Dioxane	ND		ug/m ³	0.72	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
78-93-3	2-Butanone	1.4		ug/m ³	0.29	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
591-78-6	* 2-Hexanone	ND		ug/m ³	0.81	0.993	EPA TO-15 Certifications:	11/12/2018 10:00	11/12/2018 17:43	AS
107-05-1	3-Chloropropene	ND		ug/m ³	1.6	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS



Sample Information

Client Sample ID: B-4

York Sample ID: 18K0273-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0273

37321-STX 27-10 49th Ave.

Indoor Ambient Air

November 6, 2018 11:03 am

11/08/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	0.41		ug/m ³	0.41	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
67-64-1	Acetone	8.3		ug/m ³	0.47	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
107-13-1	Acrylonitrile	ND		ug/m ³	0.22	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
71-43-2	Benzene	0.95		ug/m ³	0.32	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
100-44-7	Benzyl chloride	ND		ug/m ³	0.51	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
75-27-4	Bromodichloromethane	ND		ug/m ³	0.67	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
75-25-2	Bromoform	ND		ug/m ³	1.0	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
74-83-9	Bromomethane	ND		ug/m ³	0.39	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
75-15-0	Carbon disulfide	ND		ug/m ³	0.31	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
56-23-5	Carbon tetrachloride	0.44		ug/m ³	0.16	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
108-90-7	Chlorobenzene	ND		ug/m ³	0.46	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
75-00-3	Chloroethane	ND		ug/m ³	0.26	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
67-66-3	Chloroform	ND		ug/m ³	0.48	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
74-87-3	Chloromethane	ND		ug/m ³	0.21	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	0.098	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	0.45	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
110-82-7	Cyclohexane	0.48		ug/m ³	0.34	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
124-48-1	Dibromochloromethane	ND		ug/m ³	0.85	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
75-71-8	Dichlorodifluoromethane	1.6		ug/m ³	0.49	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
141-78-6	* Ethyl acetate	0.82		ug/m ³	0.72	0.993	EPA TO-15 Certifications:	11/12/2018 10:00	11/12/2018 17:43	AS
100-41-4	Ethyl Benzene	0.91		ug/m ³	0.43	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
87-68-3	Hexachlorobutadiene	ND		ug/m ³	1.1	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
67-63-0	Isopropanol	3.4		ug/m ³	0.49	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS



Sample Information

Client Sample ID: B-4

York Sample ID: 18K0273-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0273

37321-STX 27-10 49th Ave.

Indoor Ambient Air

November 6, 2018 11:03 am

11/08/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
80-62-6	Methyl Methacrylate	ND		ug/m ³	0.41	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.36	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
75-09-2	Methylene chloride	2.3		ug/m ³	0.69	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
142-82-5	n-Heptane	0.69		ug/m ³	0.41	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
110-54-3	n-Hexane	1.1		ug/m ³	0.35	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
95-47-6	o-Xylene	0.99		ug/m ³	0.43	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
179601-23-1	p- & m- Xylenes	3.0		ug/m ³	0.86	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
622-96-8	* p-Ethyltoluene	1.2		ug/m ³	0.49	0.993	EPA TO-15 Certifications:	11/12/2018 10:00	11/12/2018 17:43	AS
115-07-1	* Propylene	1.9		ug/m ³	0.17	0.993	EPA TO-15 Certifications:	11/12/2018 10:00	11/12/2018 17:43	AS
100-42-5	Styrene	0.42		ug/m ³	0.42	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
127-18-4	Tetrachloroethylene	96		ug/m ³	0.17	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
109-99-9	* Tetrahydrofuran	ND		ug/m ³	0.59	0.993	EPA TO-15 Certifications:	11/12/2018 10:00	11/12/2018 17:43	AS
108-88-3	Toluene	5.3		ug/m ³	0.37	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	0.39	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	0.45	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
79-01-6	Trichloroethylene	11		ug/m ³	0.13	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
75-69-4	Trichlorofluoromethane (Freon 11)	1.8		ug/m ³	0.56	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
108-05-4	Vinyl acetate	ND		ug/m ³	0.35	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
593-60-2	Vinyl bromide	ND		ug/m ³	0.43	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
75-01-4	Vinyl Chloride	ND		ug/m ³	0.063	0.993	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 17:43	AS
	Surrogate Recoveries	Result		Acceptance Range						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	99.9 %		70-130						



Sample Information

Client Sample ID: C-7

York Sample ID: 18K0273-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0273

37321-STX 27-10 49th Ave.

Indoor Ambient Air

November 6, 2018 11:04 am

11/08/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m ³	0.65	0.94	EPA TO-15 Certifications:	11/12/2018 10:00	11/12/2018 19:40	AS
71-55-6	1,1,1-Trichloroethane	ND		ug/m ³	0.51	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	0.65	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	0.72	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	0.51	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
75-34-3	1,1-Dichloroethane	ND		ug/m ³	0.38	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	0.093	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	0.70	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
95-63-6	1,2,4-Trimethylbenzene	0.74		ug/m ³	0.46	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
106-93-4	1,2-Dibromoethane	ND		ug/m ³	0.72	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	0.57	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
107-06-2	1,2-Dichloroethane	ND		ug/m ³	0.38	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
78-87-5	1,2-Dichloropropane	ND		ug/m ³	0.43	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	0.66	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m ³	0.46	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
106-99-0	1,3-Butadiene	ND		ug/m ³	0.62	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	0.57	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
142-28-9	* 1,3-Dichloropropane	ND		ug/m ³	0.43	0.94	EPA TO-15 Certifications:	11/12/2018 10:00	11/12/2018 19:40	AS
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	0.57	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
123-91-1	1,4-Dioxane	ND		ug/m ³	0.68	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
78-93-3	2-Butanone	1.2		ug/m ³	0.28	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
591-78-6	* 2-Hexanone	ND		ug/m ³	0.77	0.94	EPA TO-15 Certifications:	11/12/2018 10:00	11/12/2018 19:40	AS
107-05-1	3-Chloropropene	ND		ug/m ³	1.5	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS



Sample Information

Client Sample ID: C-7

York Sample ID: 18K0273-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0273

37321-STX 27-10 49th Ave.

Indoor Ambient Air

November 6, 2018 11:04 am

11/08/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	0.39	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
67-64-1	Acetone	8.0		ug/m ³	0.45	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
107-13-1	Acrylonitrile	ND		ug/m ³	0.20	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
71-43-2	Benzene	0.81		ug/m ³	0.30	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
100-44-7	Benzyl chloride	ND		ug/m ³	0.49	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
75-27-4	Bromodichloromethane	ND		ug/m ³	0.63	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
75-25-2	Bromoform	ND		ug/m ³	0.97	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
74-83-9	Bromomethane	ND		ug/m ³	0.37	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
75-15-0	Carbon disulfide	ND		ug/m ³	0.29	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
56-23-5	Carbon tetrachloride	0.30		ug/m ³	0.15	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
108-90-7	Chlorobenzene	ND		ug/m ³	0.43	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
75-00-3	Chloroethane	ND		ug/m ³	0.25	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
67-66-3	Chloroform	ND		ug/m ³	0.46	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
74-87-3	Chloromethane	ND		ug/m ³	0.19	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	0.093	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	0.43	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
110-82-7	Cyclohexane	0.39		ug/m ³	0.32	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
124-48-1	Dibromochloromethane	ND		ug/m ³	0.80	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
75-71-8	Dichlorodifluoromethane	1.6		ug/m ³	0.46	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
141-78-6	* Ethyl acetate	0.75		ug/m ³	0.68	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
100-41-4	Ethyl Benzene	0.69		ug/m ³	0.41	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
87-68-3	Hexachlorobutadiene	ND		ug/m ³	1.0	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
67-63-0	Isopropanol	2.9		ug/m ³	0.46	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS



Sample Information

Client Sample ID: C-7

York Sample ID: 18K0273-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0273

37321-STX 27-10 49th Ave.

Indoor Ambient Air

November 6, 2018 11:04 am

11/08/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
80-62-6	Methyl Methacrylate	0.77		ug/m ³	0.38	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.34	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
75-09-2	Methylene chloride	8.3		ug/m ³	0.65	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
142-82-5	n-Heptane	0.54		ug/m ³	0.39	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
110-54-3	n-Hexane	0.96		ug/m ³	0.33	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
95-47-6	o-Xylene	0.69		ug/m ³	0.41	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
179601-23-1	p- & m- Xylenes	2.1		ug/m ³	0.82	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
622-96-8	* p-Ethyltoluene	0.74		ug/m ³	0.46	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
115-07-1	* Propylene	1.8		ug/m ³	0.16	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
100-42-5	Styrene	ND		ug/m ³	0.40	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
127-18-4	Tetrachloroethylene	10		ug/m ³	0.16	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
109-99-9	* Tetrahydrofuran	ND		ug/m ³	0.55	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
108-88-3	Toluene	4.4		ug/m ³	0.35	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	0.37	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	0.43	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
79-01-6	Trichloroethylene	ND		ug/m ³	0.13	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
75-69-4	Trichlorofluoromethane (Freon 11)	1.2		ug/m ³	0.53	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
108-05-4	Vinyl acetate	ND		ug/m ³	0.33	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
593-60-2	Vinyl bromide	ND		ug/m ³	0.41	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS
75-01-4	Vinyl Chloride	ND		ug/m ³	0.060	0.94	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 19:40	AS

Surrogate Recoveries	Result	Acceptance Range
460-00-4 Surrogate: SURR: p-Bromofluorobenzene	94.8 %	70-130



Sample Information

Client Sample ID: 11-6-DUP

York Sample ID: 18K0273-04

York Project (SDG) No.

Client Project ID

Matrix

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18K0273

37321-STX 27-10 49th Ave.

Indoor Ambient Air

November 6, 2018 12:00 am

11/08/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m ³	0.57	0.831	EPA TO-15 Certifications:	11/12/2018 10:00	11/12/2018 20:38	AS
71-55-6	1,1,1-Trichloroethane	ND		ug/m ³	0.45	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	0.57	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	0.64	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	0.45	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
75-34-3	1,1-Dichloroethane	ND		ug/m ³	0.34	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	0.082	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	0.62	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
95-63-6	1,2,4-Trimethylbenzene	0.98		ug/m ³	0.41	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
106-93-4	1,2-Dibromoethane	ND		ug/m ³	0.64	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	0.50	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
107-06-2	1,2-Dichloroethane	ND		ug/m ³	0.34	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
78-87-5	1,2-Dichloropropane	ND		ug/m ³	0.38	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	0.58	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m ³	0.41	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
106-99-0	1,3-Butadiene	ND		ug/m ³	0.55	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	0.50	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
142-28-9	* 1,3-Dichloropropane	ND		ug/m ³	0.38	0.831	EPA TO-15 Certifications:	11/12/2018 10:00	11/12/2018 20:38	AS
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	0.50	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
123-91-1	1,4-Dioxane	ND		ug/m ³	0.60	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
78-93-3	2-Butanone	1.1		ug/m ³	0.25	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
591-78-6	* 2-Hexanone	ND		ug/m ³	0.68	0.831	EPA TO-15 Certifications:	11/12/2018 10:00	11/12/2018 20:38	AS
107-05-1	3-Chloropropene	ND		ug/m ³	1.3	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS



Sample Information

Client Sample ID: 11-6-DUP

York Sample ID: 18K0273-04

York Project (SDG) No.

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Matrix

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18K0273

37321-STX 27-10 49th Ave.

Indoor Ambient Air

November 6, 2018 12:00 am

11/08/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	0.34	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
67-64-1	Acetone	8.0		ug/m ³	0.39	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
107-13-1	Acrylonitrile	ND		ug/m ³	0.18	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
71-43-2	Benzene	0.82		ug/m ³	0.27	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
100-44-7	Benzyl chloride	ND		ug/m ³	0.43	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
75-27-4	Bromodichloromethane	ND		ug/m ³	0.56	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
75-25-2	Bromoform	ND		ug/m ³	0.86	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
74-83-9	Bromomethane	ND		ug/m ³	0.32	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
75-15-0	Carbon disulfide	ND		ug/m ³	0.26	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
56-23-5	Carbon tetrachloride	0.31		ug/m ³	0.13	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
108-90-7	Chlorobenzene	ND		ug/m ³	0.38	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
75-00-3	Chloroethane	ND		ug/m ³	0.22	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
67-66-3	Chloroform	ND		ug/m ³	0.41	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
74-87-3	Chloromethane	ND		ug/m ³	0.17	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	0.082	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	0.38	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
110-82-7	Cyclohexane	0.40		ug/m ³	0.29	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
124-48-1	Dibromochloromethane	ND		ug/m ³	0.71	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
75-71-8	Dichlorodifluoromethane	1.6		ug/m ³	0.41	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
141-78-6	* Ethyl acetate	0.81		ug/m ³	0.60	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
100-41-4	Ethyl Benzene	0.72		ug/m ³	0.36	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
87-68-3	Hexachlorobutadiene	ND		ug/m ³	0.89	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
67-63-0	Isopropanol	4.0		ug/m ³	0.41	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS



Sample Information

Client Sample ID: 11-6-DUP

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18K0273

37321-STX 27-10 49th Ave.

Indoor Ambient Air

November 6, 2018 12:00 am

11/08/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
80-62-6	Methyl Methacrylate	0.37		ug/m ³	0.34	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.30	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
75-09-2	Methylene chloride	4.3		ug/m ³	0.58	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
142-82-5	n-Heptane	0.58		ug/m ³	0.34	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
110-54-3	n-Hexane	1.0		ug/m ³	0.29	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
95-47-6	o-Xylene	0.76		ug/m ³	0.36	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
179601-23-1	p- & m- Xylenes	2.4		ug/m ³	0.72	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
622-96-8	* p-Ethyltoluene	0.90		ug/m ³	0.41	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
115-07-1	* Propylene	1.9		ug/m ³	0.14	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
100-42-5	Styrene	ND		ug/m ³	0.35	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
127-18-4	Tetrachloroethylene	10		ug/m ³	0.14	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
109-99-9	* Tetrahydrofuran	ND		ug/m ³	0.49	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
108-88-3	Toluene	4.5		ug/m ³	0.31	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	0.33	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	0.38	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
79-01-6	Trichloroethylene	0.27		ug/m ³	0.11	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
75-69-4	Trichlorofluoromethane (Freon 11)	1.2		ug/m ³	0.47	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
108-05-4	Vinyl acetate	ND		ug/m ³	0.29	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
593-60-2	Vinyl bromide	ND		ug/m ³	0.36	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
75-01-4	Vinyl Chloride	ND		ug/m ³	0.053	0.831	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 20:38	AS
	Surrogate Recoveries	Result					Acceptance Range			
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	96.2 %					70-130			



Sample Information

Client Sample ID: AA

York Sample ID: 18K0273-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0273

37321-STX 27-10 49th Ave.

Outdoor Ambient Air

November 6, 2018 11:05 am

11/08/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m ³	0.53	0.777	EPA TO-15 Certifications:	11/12/2018 10:00	11/12/2018 21:36	AS
71-55-6	1,1,1-Trichloroethane	ND		ug/m ³	0.42	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	0.53	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	0.60	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	0.42	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
75-34-3	1,1-Dichloroethane	ND		ug/m ³	0.31	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	0.077	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	0.58	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
95-63-6	1,2,4-Trimethylbenzene	0.65		ug/m ³	0.38	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
106-93-4	1,2-Dibromoethane	ND		ug/m ³	0.60	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	0.47	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
107-06-2	1,2-Dichloroethane	ND		ug/m ³	0.31	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
78-87-5	1,2-Dichloropropane	ND		ug/m ³	0.36	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
76-14-2	1,2-Dichlorotetrafluoroethane	2.9		ug/m ³	0.54	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m ³	0.38	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
106-99-0	1,3-Butadiene	ND		ug/m ³	0.52	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	0.47	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
142-28-9	* 1,3-Dichloropropane	ND		ug/m ³	0.36	0.777	EPA TO-15 Certifications:	11/12/2018 10:00	11/12/2018 21:36	AS
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	0.47	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
123-91-1	1,4-Dioxane	ND		ug/m ³	0.56	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
78-93-3	2-Butanone	0.94		ug/m ³	0.23	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
591-78-6	* 2-Hexanone	1.3		ug/m ³	0.64	0.777	EPA TO-15 Certifications:	11/12/2018 10:00	11/12/2018 21:36	AS
107-05-1	3-Chloropropene	ND		ug/m ³	1.2	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS



Sample Information

Client Sample ID: AA

York Sample ID: 18K0273-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0273

37321-STX 27-10 49th Ave.

Outdoor Ambient Air

November 6, 2018 11:05 am

11/08/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	0.32	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
67-64-1	Acetone	6.5		ug/m ³	0.37	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
107-13-1	Acrylonitrile	ND		ug/m ³	0.17	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
71-43-2	Benzene	0.82		ug/m ³	0.25	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
100-44-7	Benzyl chloride	ND		ug/m ³	0.40	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
75-27-4	Bromodichloromethane	ND		ug/m ³	0.52	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
75-25-2	Bromoform	ND		ug/m ³	0.80	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
74-83-9	Bromomethane	ND		ug/m ³	0.30	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
75-15-0	Carbon disulfide	ND		ug/m ³	0.24	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
56-23-5	Carbon tetrachloride	0.34		ug/m ³	0.12	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
108-90-7	Chlorobenzene	ND		ug/m ³	0.36	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
75-00-3	Chloroethane	ND		ug/m ³	0.21	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
67-66-3	Chloroform	ND		ug/m ³	0.38	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
74-87-3	Chloromethane	0.87		ug/m ³	0.16	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
156-59-2	cis-1,2-Dichloroethylene	0.12		ug/m ³	0.077	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	0.35	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
110-82-7	Cyclohexane	0.37		ug/m ³	0.27	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
124-48-1	Dibromochloromethane	ND		ug/m ³	0.66	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
75-71-8	Dichlorodifluoromethane	1.7		ug/m ³	0.38	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
141-78-6	* Ethyl acetate	0.59		ug/m ³	0.56	0.777	EPA TO-15 Certifications:	11/12/2018 10:00	11/12/2018 21:36	AS
100-41-4	Ethyl Benzene	0.64		ug/m ³	0.34	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
87-68-3	Hexachlorobutadiene	ND		ug/m ³	0.83	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
67-63-0	Isopropanol	2.2		ug/m ³	0.38	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS



Sample Information

Client Sample ID: AA

York Sample ID: 18K0273-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0273

37321-STX 27-10 49th Ave.

Outdoor Ambient Air

November 6, 2018 11:05 am

11/08/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
80-62-6	Methyl Methacrylate	0.64		ug/m ³	0.32	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.28	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
75-09-2	Methylene chloride	5.0		ug/m ³	0.54	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
142-82-5	n-Heptane	0.67		ug/m ³	0.32	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
110-54-3	n-Hexane	0.93		ug/m ³	0.27	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
95-47-6	o-Xylene	0.64		ug/m ³	0.34	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
179601-23-1	p- & m- Xylenes	2.0		ug/m ³	0.67	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
622-96-8	* p-Ethyltoluene	ND		ug/m ³	0.38	0.777	EPA TO-15 Certifications:	11/12/2018 10:00	11/12/2018 21:36	AS
115-07-1	* Propylene	1.7		ug/m ³	0.13	0.777	EPA TO-15 Certifications:	11/12/2018 10:00	11/12/2018 21:36	AS
100-42-5	Styrene	ND		ug/m ³	0.33	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
127-18-4	Tetrachloroethylene	1.1		ug/m ³	0.13	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
109-99-9	* Tetrahydrofuran	ND		ug/m ³	0.46	0.777	EPA TO-15 Certifications:	11/12/2018 10:00	11/12/2018 21:36	AS
108-88-3	Toluene	3.7		ug/m ³	0.29	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	0.31	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	0.35	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
79-01-6	Trichloroethylene	ND		ug/m ³	0.10	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
75-69-4	Trichlorofluoromethane (Freon 11)	1.2		ug/m ³	0.44	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
108-05-4	Vinyl acetate	ND		ug/m ³	0.27	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
593-60-2	Vinyl bromide	ND		ug/m ³	0.34	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
75-01-4	Vinyl Chloride	ND		ug/m ³	0.050	0.777	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 21:36	AS
	Surrogate Recoveries	Result		Acceptance Range						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	95.9 %		70-130						



Sample Information

Client Sample ID: C5

York Sample ID: 18K0273-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0273

37321-STX 27-10 49th Ave.

Soil Vapor

November 7, 2018 11:19 am

11/08/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m ³	1.2	1.689	EPA TO-15 Certifications:	11/12/2018 10:00	11/12/2018 22:28	AS
71-55-6	1,1,1-Trichloroethane	2.7		ug/m ³	0.92	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	1.2	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	1.3	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	0.92	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
75-34-3	1,1-Dichloroethane	ND		ug/m ³	0.68	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	0.17	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	1.3	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
95-63-6	1,2,4-Trimethylbenzene	4.9		ug/m ³	0.83	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
106-93-4	1,2-Dibromoethane	ND		ug/m ³	1.3	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	1.0	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
107-06-2	1,2-Dichloroethane	ND		ug/m ³	0.68	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
78-87-5	1,2-Dichloropropane	ND		ug/m ³	0.78	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	1.2	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
108-67-8	1,3,5-Trimethylbenzene	1.1		ug/m ³	0.83	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
106-99-0	1,3-Butadiene	ND		ug/m ³	1.1	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	1.0	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
142-28-9	* 1,3-Dichloropropane	ND		ug/m ³	0.78	1.689	EPA TO-15 Certifications:	11/12/2018 10:00	11/12/2018 22:28	AS
106-46-7	1,4-Dichlorobenzene	1.7		ug/m ³	1.0	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
123-91-1	1,4-Dioxane	ND		ug/m ³	1.2	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
78-93-3	2-Butanone	2.6		ug/m ³	0.50	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
591-78-6	* 2-Hexanone	ND		ug/m ³	1.4	1.689	EPA TO-15 Certifications:	11/12/2018 10:00	11/12/2018 22:28	AS
107-05-1	3-Chloropropene	ND		ug/m ³	2.6	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS



Sample Information

Client Sample ID: C5

York Sample ID: 18K0273-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0273

37321-STX 27-10 49th Ave.

Soil Vapor

November 7, 2018 11:19 am

11/08/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	0.69	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
67-64-1	Acetone	6.3		ug/m ³	0.80	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
107-13-1	Acrylonitrile	ND		ug/m ³	0.37	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
71-43-2	Benzene	3.2		ug/m ³	0.54	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
100-44-7	Benzyl chloride	ND		ug/m ³	0.87	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
75-27-4	Bromodichloromethane	ND		ug/m ³	1.1	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
75-25-2	Bromoform	ND		ug/m ³	1.7	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
74-83-9	Bromomethane	ND		ug/m ³	0.66	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
75-15-0	Carbon disulfide	13		ug/m ³	0.53	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
56-23-5	Carbon tetrachloride	ND		ug/m ³	0.27	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
108-90-7	Chlorobenzene	ND		ug/m ³	0.78	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
75-00-3	Chloroethane	ND		ug/m ³	0.45	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
67-66-3	Chloroform	9.6		ug/m ³	0.82	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
74-87-3	Chloromethane	ND		ug/m ³	0.35	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	0.17	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	0.77	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
110-82-7	Cyclohexane	2.6		ug/m ³	0.58	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
124-48-1	Dibromochloromethane	ND		ug/m ³	1.4	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
75-71-8	Dichlorodifluoromethane	1.8		ug/m ³	0.84	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
141-78-6	* Ethyl acetate	ND		ug/m ³	1.2	1.689	EPA TO-15 Certifications:	11/12/2018 10:00	11/12/2018 22:28	AS
100-41-4	Ethyl Benzene	1.4		ug/m ³	0.73	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
87-68-3	Hexachlorobutadiene	ND		ug/m ³	1.8	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
67-63-0	Isopropanol	0.83		ug/m ³	0.83	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS



Sample Information

Client Sample ID: C5

York Sample ID: 18K0273-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0273

37321-STX 27-10 49th Ave.

Soil Vapor

November 7, 2018 11:19 am

11/08/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
80-62-6	Methyl Methacrylate	ND		ug/m ³	0.69	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.61	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
75-09-2	Methylene chloride	4.7		ug/m ³	1.2	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
142-82-5	n-Heptane	ND		ug/m ³	0.69	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
110-54-3	n-Hexane	2.3		ug/m ³	0.60	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
95-47-6	o-Xylene	2.3		ug/m ³	0.73	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
179601-23-1	p- & m- Xylenes	5.1		ug/m ³	1.5	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
622-96-8	* p-Ethyltoluene	3.7		ug/m ³	0.83	1.689	EPA TO-15 Certifications:	11/12/2018 10:00	11/12/2018 22:28	AS
115-07-1	* Propylene	0.70		ug/m ³	0.29	1.689	EPA TO-15 Certifications:	11/12/2018 10:00	11/12/2018 22:28	AS
100-42-5	Styrene	ND		ug/m ³	0.72	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
127-18-4	Tetrachloroethylene	11000		ug/m ³	5.7	33.78	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 08:33	AS
109-99-9	* Tetrahydrofuran	ND		ug/m ³	1.0	1.689	EPA TO-15 Certifications:	11/12/2018 10:00	11/12/2018 22:28	AS
108-88-3	Toluene	5.1		ug/m ³	0.64	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	0.67	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	0.77	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
79-01-6	Trichloroethylene	1100		ug/m ³	4.5	33.78	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 08:33	AS
75-69-4	Trichlorofluoromethane (Freon 11)	1.2		ug/m ³	0.95	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
108-05-4	Vinyl acetate	ND		ug/m ³	0.59	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
593-60-2	Vinyl bromide	ND		ug/m ³	0.74	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
75-01-4	Vinyl Chloride	ND		ug/m ³	0.11	1.689	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 22:28	AS
	Surrogate Recoveries	Result		Acceptance Range						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	106 %		70-130						



Sample Information

Client Sample ID: B6

York Sample ID: 18K0273-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0273

37321-STX 27-10 49th Ave.

Soil Vapor

November 7, 2018 11:27 am

11/08/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m ³	1.2	1.748	EPA TO-15 Certifications:	11/12/2018 10:00	11/12/2018 23:20	AS
71-55-6	1,1,1-Trichloroethane	12		ug/m ³	0.95	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	1.2	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	1.3	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	0.95	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
75-34-3	1,1-Dichloroethane	ND		ug/m ³	0.71	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	0.17	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	1.3	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
95-63-6	1,2,4-Trimethylbenzene	4.7		ug/m ³	0.86	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
106-93-4	1,2-Dibromoethane	ND		ug/m ³	1.3	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	1.1	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
107-06-2	1,2-Dichloroethane	ND		ug/m ³	0.71	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
78-87-5	1,2-Dichloropropane	ND		ug/m ³	0.81	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	1.2	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
108-67-8	1,3,5-Trimethylbenzene	1.2		ug/m ³	0.86	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
106-99-0	1,3-Butadiene	ND		ug/m ³	1.2	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	1.1	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
142-28-9	* 1,3-Dichloropropane	ND		ug/m ³	0.81	1.748	EPA TO-15 Certifications:	11/12/2018 10:00	11/12/2018 23:20	AS
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	1.1	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
123-91-1	1,4-Dioxane	ND		ug/m ³	1.3	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
78-93-3	2-Butanone	1.4		ug/m ³	0.52	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
591-78-6	* 2-Hexanone	ND		ug/m ³	1.4	1.748	EPA TO-15 Certifications:	11/12/2018 10:00	11/12/2018 23:20	AS
107-05-1	3-Chloropropene	ND		ug/m ³	2.7	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS



Sample Information

Client Sample ID: B6

York Sample ID: 18K0273-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0273

37321-STX 27-10 49th Ave.

Soil Vapor

November 7, 2018 11:27 am

11/08/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	0.72	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
67-64-1	Acetone	3.5		ug/m ³	0.83	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
107-13-1	Acrylonitrile	ND		ug/m ³	0.38	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
71-43-2	Benzene	0.84		ug/m ³	0.56	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
100-44-7	Benzyl chloride	ND		ug/m ³	0.90	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
75-27-4	Bromodichloromethane	ND		ug/m ³	1.2	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
75-25-2	Bromoform	ND		ug/m ³	1.8	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
74-83-9	Bromomethane	ND		ug/m ³	0.68	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
75-15-0	Carbon disulfide	18		ug/m ³	0.54	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
56-23-5	Carbon tetrachloride	ND		ug/m ³	0.27	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
108-90-7	Chlorobenzene	ND		ug/m ³	0.80	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
75-00-3	Chloroethane	ND		ug/m ³	0.46	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
67-66-3	Chloroform	43		ug/m ³	0.85	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
74-87-3	Chloromethane	ND		ug/m ³	0.36	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	0.17	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	0.79	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
110-82-7	Cyclohexane	0.96		ug/m ³	0.60	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
124-48-1	Dibromochloromethane	ND		ug/m ³	1.5	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
75-71-8	Dichlorodifluoromethane	1.8		ug/m ³	0.86	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
141-78-6	* Ethyl acetate	ND		ug/m ³	1.3	1.748	EPA TO-15 Certifications:	11/12/2018 10:00	11/12/2018 23:20	AS
100-41-4	Ethyl Benzene	1.2		ug/m ³	0.76	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
87-68-3	Hexachlorobutadiene	ND		ug/m ³	1.9	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
67-63-0	Isopropanol	ND		ug/m ³	0.86	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS



Sample Information

Client Sample ID: B6

York Sample ID: 18K0273-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0273

37321-STX 27-10 49th Ave.

Soil Vapor

November 7, 2018 11:27 am

11/08/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
80-62-6	Methyl Methacrylate	ND		ug/m ³	0.72	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.63	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
75-09-2	Methylene chloride	ND		ug/m ³	1.2	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
142-82-5	n-Heptane	ND		ug/m ³	0.72	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
110-54-3	n-Hexane	2.8		ug/m ³	0.62	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
95-47-6	o-Xylene	1.6		ug/m ³	0.76	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
179601-23-1	p- & m- Xylenes	4.0		ug/m ³	1.5	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
622-96-8	* p-Ethyltoluene	3.6		ug/m ³	0.86	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
115-07-1	* Propylene	ND		ug/m ³	0.30	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
100-42-5	Styrene	0.74		ug/m ³	0.74	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
127-18-4	Tetrachloroethylene	7400		ug/m ³	5.9	34.96	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 09:19	AS
109-99-9	* Tetrahydrofuran	ND		ug/m ³	1.0	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
108-88-3	Toluene	2.0		ug/m ³	0.66	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	0.69	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	0.79	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
79-01-6	Trichloroethylene	1100		ug/m ³	4.7	34.96	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 09:19	AS
75-69-4	Trichlorofluoromethane (Freon 11)	4.0		ug/m ³	0.98	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
108-05-4	Vinyl acetate	ND		ug/m ³	0.62	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
593-60-2	Vinyl bromide	ND		ug/m ³	0.76	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
75-01-4	Vinyl Chloride	ND		ug/m ³	0.11	1.748	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/12/2018 23:20	AS
	Surrogate Recoveries	Result		Acceptance Range						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	105 %		70-130						



Sample Information

Client Sample ID: C3

York Sample ID: 18K0273-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0273

37321-STX 27-10 49th Ave.

Soil Vapor

November 7, 2018 11:39 am

11/08/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m ³	1.1	1.576	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 00:12	AS
71-55-6	1,1,1-Trichloroethane	1.7		ug/m ³	0.86	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	1.1	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	1.2	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	0.86	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
75-34-3	1,1-Dichloroethane	ND		ug/m ³	0.64	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	0.16	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	1.2	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
95-63-6	1,2,4-Trimethylbenzene	9.0		ug/m ³	0.77	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
106-93-4	1,2-Dibromoethane	ND		ug/m ³	1.2	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	0.95	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
107-06-2	1,2-Dichloroethane	ND		ug/m ³	0.64	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
78-87-5	1,2-Dichloropropane	ND		ug/m ³	0.73	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	1.1	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
108-67-8	1,3,5-Trimethylbenzene	3.0		ug/m ³	0.77	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
106-99-0	1,3-Butadiene	ND		ug/m ³	1.0	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	0.95	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
142-28-9	* 1,3-Dichloropropane	ND		ug/m ³	0.73	1.576	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 00:12	AS
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	0.95	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
123-91-1	1,4-Dioxane	ND		ug/m ³	1.1	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
78-93-3	2-Butanone	5.3		ug/m ³	0.46	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
591-78-6	* 2-Hexanone	4.1		ug/m ³	1.3	1.576	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 00:12	AS
107-05-1	3-Chloropropene	ND		ug/m ³	2.5	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS



Sample Information

Client Sample ID: C3

York Sample ID: 18K0273-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0273

37321-STX 27-10 49th Ave.

Soil Vapor

November 7, 2018 11:39 am

11/08/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	1.3		ug/m ³	0.65	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
67-64-1	Acetone	37		ug/m ³	0.75	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
107-13-1	Acrylonitrile	ND		ug/m ³	0.34	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
71-43-2	Benzene	0.86		ug/m ³	0.50	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
100-44-7	Benzyl chloride	ND		ug/m ³	0.82	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
75-27-4	Bromodichloromethane	ND		ug/m ³	1.1	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
75-25-2	Bromoform	ND		ug/m ³	1.6	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
74-83-9	Bromomethane	ND		ug/m ³	0.61	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
75-15-0	Carbon disulfide	79		ug/m ³	0.49	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
56-23-5	Carbon tetrachloride	ND		ug/m ³	0.25	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
108-90-7	Chlorobenzene	ND		ug/m ³	0.73	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
75-00-3	Chloroethane	ND		ug/m ³	0.42	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
67-66-3	Chloroform	15		ug/m ³	0.77	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
74-87-3	Chloromethane	ND		ug/m ³	0.33	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	0.16	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	0.72	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
110-82-7	Cyclohexane	0.60		ug/m ³	0.54	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
124-48-1	Dibromochloromethane	ND		ug/m ³	1.3	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
75-71-8	Dichlorodifluoromethane	2.0		ug/m ³	0.78	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
141-78-6	* Ethyl acetate	ND		ug/m ³	1.1	1.576	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 00:12	AS
100-41-4	Ethyl Benzene	2.7		ug/m ³	0.68	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
87-68-3	Hexachlorobutadiene	ND		ug/m ³	1.7	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
67-63-0	Isopropanol	3.2		ug/m ³	0.77	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS



Sample Information

Client Sample ID: C3

York Sample ID: 18K0273-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0273

37321-STX 27-10 49th Ave.

Soil Vapor

November 7, 2018 11:39 am

11/08/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
80-62-6	Methyl Methacrylate	ND		ug/m ³	0.65	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.57	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
75-09-2	Methylene chloride	ND		ug/m ³	1.1	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
142-82-5	n-Heptane	2.5		ug/m ³	0.65	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
110-54-3	n-Hexane	11		ug/m ³	0.56	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
95-47-6	o-Xylene	6.2		ug/m ³	0.68	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
179601-23-1	p- & m- Xylenes	12		ug/m ³	1.4	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
622-96-8	* p-Ethyltoluene	6.6		ug/m ³	0.77	1.576	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 00:12	AS
115-07-1	* Propylene	1.6		ug/m ³	0.27	1.576	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 00:12	AS
100-42-5	Styrene	1.8		ug/m ³	0.67	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
127-18-4	Tetrachloroethylene	2800		ug/m ³	5.3	31.52	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 10:05	AS
109-99-9	* Tetrahydrofuran	1.8		ug/m ³	0.93	1.576	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 00:12	AS
108-88-3	Toluene	4.8		ug/m ³	0.59	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	0.62	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	0.72	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
79-01-6	Trichloroethylene	29		ug/m ³	0.21	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m ³	0.89	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
108-05-4	Vinyl acetate	ND		ug/m ³	0.55	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
593-60-2	Vinyl bromide	ND		ug/m ³	0.69	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS
75-01-4	Vinyl Chloride	ND		ug/m ³	0.10	1.576	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 00:12	AS

Surrogate Recoveries	Result	Acceptance Range
460-00-4 <i>Surrogate: SURR: p-Bromofluorobenzene</i>	109 %	70-130



Sample Information

Client Sample ID: D1

York Sample ID: 18K0273-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0273

37321-STX 27-10 49th Ave.

Soil Vapor

November 7, 2018 11:50 am

11/08/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m ³	1.0	1.489	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 01:04	AS
71-55-6	1,1,1-Trichloroethane	ND		ug/m ³	0.81	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	1.0	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	1.1	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	0.81	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
75-34-3	1,1-Dichloroethane	ND		ug/m ³	0.60	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	0.15	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	1.1	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
95-63-6	1,2,4-Trimethylbenzene	5.7		ug/m ³	0.73	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
106-93-4	1,2-Dibromoethane	ND		ug/m ³	1.1	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	0.90	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
107-06-2	1,2-Dichloroethane	ND		ug/m ³	0.60	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
78-87-5	1,2-Dichloropropane	ND		ug/m ³	0.69	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	1.0	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
108-67-8	1,3,5-Trimethylbenzene	1.8		ug/m ³	0.73	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
106-99-0	1,3-Butadiene	ND		ug/m ³	0.99	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	0.90	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
142-28-9	* 1,3-Dichloropropane	ND		ug/m ³	0.69	1.489	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 01:04	AS
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	0.90	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
123-91-1	1,4-Dioxane	ND		ug/m ³	1.1	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
78-93-3	2-Butanone	12		ug/m ³	0.44	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
591-78-6	* 2-Hexanone	2.8		ug/m ³	1.2	1.489	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 01:04	AS
107-05-1	3-Chloropropene	ND		ug/m ³	2.3	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS



Sample Information

Client Sample ID: D1

York Sample ID: 18K0273-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0273

37321-STX 27-10 49th Ave.

Soil Vapor

November 7, 2018 11:50 am

11/08/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	3.0		ug/m ³	0.61	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
67-64-1	Acetone	59		ug/m ³	0.71	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
107-13-1	Acrylonitrile	ND		ug/m ³	0.32	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
71-43-2	Benzene	0.86		ug/m ³	0.48	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
100-44-7	Benzyl chloride	ND		ug/m ³	0.77	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
75-27-4	Bromodichloromethane	ND		ug/m ³	1.0	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
75-25-2	Bromoform	ND		ug/m ³	1.5	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
74-83-9	Bromomethane	ND		ug/m ³	0.58	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
75-15-0	Carbon disulfide	230		ug/m ³	4.6	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 10:50	AS
56-23-5	Carbon tetrachloride	ND		ug/m ³	0.23	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
108-90-7	Chlorobenzene	ND		ug/m ³	0.69	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
75-00-3	Chloroethane	ND		ug/m ³	0.39	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
67-66-3	Chloroform	5.4		ug/m ³	0.73	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
74-87-3	Chloromethane	ND		ug/m ³	0.31	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	0.15	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	0.68	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
110-82-7	Cyclohexane	0.62		ug/m ³	0.51	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
124-48-1	Dibromochloromethane	ND		ug/m ³	1.3	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
75-71-8	Dichlorodifluoromethane	2.0		ug/m ³	0.74	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
141-78-6	* Ethyl acetate	ND		ug/m ³	1.1	1.489	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 01:04	AS
100-41-4	Ethyl Benzene	1.8		ug/m ³	0.65	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
87-68-3	Hexachlorobutadiene	ND		ug/m ³	1.6	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
67-63-0	Isopropanol	3.8		ug/m ³	0.73	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS



Sample Information

Client Sample ID: D1

York Sample ID: 18K0273-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0273

37321-STX 27-10 49th Ave.

Soil Vapor

November 7, 2018 11:50 am

11/08/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
80-62-6	Methyl Methacrylate	ND		ug/m ³	0.61	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.54	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
75-09-2	Methylene chloride	1.8		ug/m ³	1.0	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
142-82-5	n-Heptane	7.6		ug/m ³	0.61	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
110-54-3	n-Hexane	38		ug/m ³	0.52	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
95-47-6	o-Xylene	2.7		ug/m ³	0.65	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
179601-23-1	p- & m- Xylenes	7.0		ug/m ³	1.3	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
622-96-8	* p-Ethyltoluene	4.6		ug/m ³	0.73	1.489	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 01:04	AS
115-07-1	* Propylene	1.2		ug/m ³	0.26	1.489	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 01:04	AS
100-42-5	Styrene	1.3		ug/m ³	0.63	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
127-18-4	Tetrachloroethylene	740		ug/m ³	2.5	14.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 10:50	AS
109-99-9	* Tetrahydrofuran	ND		ug/m ³	0.88	1.489	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 01:04	AS
108-88-3	Toluene	6.7		ug/m ³	0.56	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	0.59	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	0.68	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
79-01-6	Trichloroethylene	5.9		ug/m ³	0.20	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
75-69-4	Trichlorofluoromethane (Freon 11)	1.3		ug/m ³	0.84	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
108-05-4	Vinyl acetate	ND		ug/m ³	0.52	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
593-60-2	Vinyl bromide	ND		ug/m ³	0.65	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
75-01-4	Vinyl Chloride	ND		ug/m ³	0.095	1.489	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:04	AS
	Surrogate Recoveries	Result		Acceptance Range						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	104 %		70-130						



Sample Information

Client Sample ID: A10

York Sample ID: 18K0273-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0273

37321-STX 27-10 49th Ave.

Soil Vapor

November 7, 2018 12:01 pm

11/08/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m ³	1.1	1.654	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 01:56	AS
71-55-6	1,1,1-Trichloroethane	1.5		ug/m ³	0.90	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	1.1	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	1.3	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	0.90	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
75-34-3	1,1-Dichloroethane	ND		ug/m ³	0.67	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
75-35-4	1,1-Dichloroethylene	0.52		ug/m ³	0.16	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	1.2	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
95-63-6	1,2,4-Trimethylbenzene	6.4		ug/m ³	0.81	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
106-93-4	1,2-Dibromoethane	ND		ug/m ³	1.3	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	0.99	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
107-06-2	1,2-Dichloroethane	ND		ug/m ³	0.67	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
78-87-5	1,2-Dichloropropane	ND		ug/m ³	0.76	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	1.2	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
108-67-8	1,3,5-Trimethylbenzene	6.4		ug/m ³	0.81	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
106-99-0	1,3-Butadiene	ND		ug/m ³	1.1	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	0.99	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
142-28-9	* 1,3-Dichloropropane	ND		ug/m ³	0.76	1.654	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 01:56	AS
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	0.99	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
123-91-1	1,4-Dioxane	ND		ug/m ³	1.2	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
78-93-3	2-Butanone	1.7		ug/m ³	0.49	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
591-78-6	* 2-Hexanone	ND		ug/m ³	1.4	1.654	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 01:56	AS
107-05-1	3-Chloropropene	ND		ug/m ³	2.6	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS



Sample Information

Client Sample ID: A10

York Sample ID: 18K0273-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0273

37321-STX 27-10 49th Ave.

Soil Vapor

November 7, 2018 12:01 pm

11/08/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	0.68	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
67-64-1	Acetone	7.6		ug/m ³	0.79	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
107-13-1	Acrylonitrile	ND		ug/m ³	0.36	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
71-43-2	Benzene	7.8		ug/m ³	0.53	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
100-44-7	Benzyl chloride	ND		ug/m ³	0.86	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
75-27-4	Bromodichloromethane	ND		ug/m ³	1.1	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
75-25-2	Bromoform	ND		ug/m ³	1.7	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
74-83-9	Bromomethane	ND		ug/m ³	0.64	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
75-15-0	Carbon disulfide	7.0		ug/m ³	0.52	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
56-23-5	Carbon tetrachloride	ND		ug/m ³	0.26	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
108-90-7	Chlorobenzene	ND		ug/m ³	0.76	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
75-00-3	Chloroethane	ND		ug/m ³	0.44	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
67-66-3	Chloroform	21		ug/m ³	0.81	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
74-87-3	Chloromethane	ND		ug/m ³	0.34	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
156-59-2	cis-1,2-Dichloroethylene	940		ug/m ³	6.6	66.16	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 11:35	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	0.75	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
110-82-7	Cyclohexane	1.1		ug/m ³	0.57	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
124-48-1	Dibromochloromethane	ND		ug/m ³	1.4	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
75-71-8	Dichlorodifluoromethane	1.9		ug/m ³	0.82	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
141-78-6	* Ethyl acetate	ND		ug/m ³	1.2	1.654	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 01:56	AS
100-41-4	Ethyl Benzene	2.9		ug/m ³	0.72	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
87-68-3	Hexachlorobutadiene	ND		ug/m ³	1.8	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
67-63-0	Isopropanol	ND		ug/m ³	0.81	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS



Sample Information

Client Sample ID: A10

York Sample ID: 18K0273-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0273

37321-STX 27-10 49th Ave.

Soil Vapor

November 7, 2018 12:01 pm

11/08/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
80-62-6	Methyl Methacrylate	ND		ug/m ³	0.68	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.60	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
75-09-2	Methylene chloride	ND		ug/m ³	1.1	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
142-82-5	n-Heptane	ND		ug/m ³	0.68	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
110-54-3	n-Hexane	ND		ug/m ³	0.58	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
95-47-6	o-Xylene	4.6		ug/m ³	0.72	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
179601-23-1	p- & m- Xylenes	4.9		ug/m ³	1.4	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
622-96-8	* p-Ethyltoluene	5.3		ug/m ³	0.81	1.654	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 01:56	AS
115-07-1	* Propylene	2.0		ug/m ³	0.28	1.654	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 01:56	AS
100-42-5	Styrene	1.2		ug/m ³	0.70	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
127-18-4	Tetrachloroethylene	22000		ug/m ³	11	66.16	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 11:35	AS
109-99-9	* Tetrahydrofuran	ND		ug/m ³	0.98	1.654	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 01:56	AS
108-88-3	Toluene	3.4		ug/m ³	0.62	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
156-60-5	trans-1,2-Dichloroethylene	27		ug/m ³	0.66	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	0.75	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
79-01-6	Trichloroethylene	860		ug/m ³	8.9	66.16	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 11:35	AS
75-69-4	Trichlorofluoromethane (Freon 11)	1.4		ug/m ³	0.93	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
108-05-4	Vinyl acetate	ND		ug/m ³	0.58	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
593-60-2	Vinyl bromide	ND		ug/m ³	0.72	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
75-01-4	Vinyl Chloride	ND		ug/m ³	0.11	1.654	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 01:56	AS
	Surrogate Recoveries	Result		Acceptance Range						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	112 %		70-130						



Sample Information

Client Sample ID: C11

York Sample ID: 18K0273-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0273

37321-STX 27-10 49th Ave.

Soil Vapor

November 7, 2018 12:06 pm

11/08/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m ³	1.2	1.696	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 02:47	AS
71-55-6	1,1,1-Trichloroethane	ND		ug/m ³	0.93	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	1.2	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	1.3	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	0.93	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
75-34-3	1,1-Dichloroethane	ND		ug/m ³	0.69	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	0.17	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	1.3	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m ³	0.83	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
106-93-4	1,2-Dibromoethane	ND		ug/m ³	1.3	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	1.0	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
107-06-2	1,2-Dichloroethane	ND		ug/m ³	0.69	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
78-87-5	1,2-Dichloropropane	ND		ug/m ³	0.78	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	1.2	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m ³	0.83	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
106-99-0	1,3-Butadiene	ND		ug/m ³	1.1	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	1.0	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
142-28-9	* 1,3-Dichloropropane	ND		ug/m ³	0.78	1.696	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 02:47	AS
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	1.0	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
123-91-1	1,4-Dioxane	ND		ug/m ³	1.2	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
78-93-3	2-Butanone	1.5		ug/m ³	0.50	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
591-78-6	* 2-Hexanone	ND		ug/m ³	1.4	1.696	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 02:47	AS
107-05-1	3-Chloropropene	ND		ug/m ³	2.7	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS



Sample Information

Client Sample ID: C11

York Sample ID: 18K0273-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0273

37321-STX 27-10 49th Ave.

Soil Vapor

November 7, 2018 12:06 pm

11/08/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	0.69	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
67-64-1	Acetone	11		ug/m ³	0.81	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
107-13-1	Acrylonitrile	ND		ug/m ³	0.37	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
71-43-2	Benzene	0.65		ug/m ³	0.54	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
100-44-7	Benzyl chloride	ND		ug/m ³	0.88	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
75-27-4	Bromodichloromethane	ND		ug/m ³	1.1	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
75-25-2	Bromoform	ND		ug/m ³	1.8	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
74-83-9	Bromomethane	ND		ug/m ³	0.66	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
75-15-0	Carbon disulfide	2.5		ug/m ³	0.53	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
56-23-5	Carbon tetrachloride	ND		ug/m ³	0.27	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
108-90-7	Chlorobenzene	ND		ug/m ³	0.78	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
75-00-3	Chloroethane	ND		ug/m ³	0.45	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
67-66-3	Chloroform	ND		ug/m ³	0.83	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
74-87-3	Chloromethane	ND		ug/m ³	0.35	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
156-59-2	cis-1,2-Dichloroethylene	0.67		ug/m ³	0.17	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	0.77	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
110-82-7	Cyclohexane	ND		ug/m ³	0.58	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
124-48-1	Dibromochloromethane	ND		ug/m ³	1.4	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
75-71-8	Dichlorodifluoromethane	1.8		ug/m ³	0.84	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
141-78-6	* Ethyl acetate	ND		ug/m ³	1.2	1.696	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 02:47	AS
100-41-4	Ethyl Benzene	ND		ug/m ³	0.74	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
87-68-3	Hexachlorobutadiene	ND		ug/m ³	1.8	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
67-63-0	Isopropanol	ND		ug/m ³	0.83	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS



Sample Information

Client Sample ID: C11

York Sample ID: 18K0273-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0273

37321-STX 27-10 49th Ave.

Soil Vapor

November 7, 2018 12:06 pm

11/08/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
80-62-6	Methyl Methacrylate	ND		ug/m ³	0.69	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.61	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
75-09-2	Methylene chloride	ND		ug/m ³	1.2	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
142-82-5	n-Heptane	ND		ug/m ³	0.70	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
110-54-3	n-Hexane	0.66		ug/m ³	0.60	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
95-47-6	o-Xylene	ND		ug/m ³	0.74	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
179601-23-1	p- & m- Xylenes	1.8		ug/m ³	1.5	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
622-96-8	* p-Ethyltoluene	ND		ug/m ³	0.83	1.696	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 02:47	AS
115-07-1	* Propylene	1.5		ug/m ³	0.29	1.696	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 02:47	AS
100-42-5	Styrene	ND		ug/m ³	0.72	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
127-18-4	Tetrachloroethylene	15		ug/m ³	0.29	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
109-99-9	* Tetrahydrofuran	ND		ug/m ³	1.0	1.696	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 02:47	AS
108-88-3	Toluene	2.8		ug/m ³	0.64	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	0.67	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	0.77	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
79-01-6	Trichloroethylene	0.55		ug/m ³	0.23	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m ³	0.95	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
108-05-4	Vinyl acetate	ND		ug/m ³	0.60	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
593-60-2	Vinyl bromide	ND		ug/m ³	0.74	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
75-01-4	Vinyl Chloride	ND		ug/m ³	0.11	1.696	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 02:47	AS
	Surrogate Recoveries	Result		Acceptance Range						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	95.2 %		70-130						



Sample Information

Client Sample ID: B12

York Sample ID: 18K0273-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0273

37321-STX 27-10 49th Ave.

Soil Vapor

November 7, 2018 12:10 pm

11/08/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m ³	1.1	1.608	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 03:39	AS
71-55-6	1,1,1-Trichloroethane	1.8		ug/m ³	0.88	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	1.1	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	1.2	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	0.88	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
75-34-3	1,1-Dichloroethane	ND		ug/m ³	0.65	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	0.16	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	1.2	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
95-63-6	1,2,4-Trimethylbenzene	6.0		ug/m ³	0.79	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
106-93-4	1,2-Dibromoethane	ND		ug/m ³	1.2	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	0.97	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
107-06-2	1,2-Dichloroethane	ND		ug/m ³	0.65	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
78-87-5	1,2-Dichloropropane	ND		ug/m ³	0.74	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	1.1	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
108-67-8	1,3,5-Trimethylbenzene	1.6		ug/m ³	0.79	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
106-99-0	1,3-Butadiene	ND		ug/m ³	1.1	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	0.97	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
142-28-9	* 1,3-Dichloropropane	ND		ug/m ³	0.74	1.608	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 03:39	AS
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	0.97	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
123-91-1	1,4-Dioxane	ND		ug/m ³	1.2	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
78-93-3	2-Butanone	1.6		ug/m ³	0.47	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
591-78-6	* 2-Hexanone	ND		ug/m ³	1.3	1.608	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 03:39	AS
107-05-1	3-Chloropropene	ND		ug/m ³	2.5	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS



Sample Information

Client Sample ID: B12

York Sample ID: 18K0273-12

York Project (SDG) No.

Client Project ID

Matrix

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18K0273

37321-STX 27-10 49th Ave.

Soil Vapor

November 7, 2018 12:10 pm

11/08/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	0.66	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
67-64-1	Acetone	7.6		ug/m ³	0.76	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
107-13-1	Acrylonitrile	ND		ug/m ³	0.35	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
71-43-2	Benzene	4.6		ug/m ³	0.51	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
100-44-7	Benzyl chloride	ND		ug/m ³	0.83	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
75-27-4	Bromodichloromethane	ND		ug/m ³	1.1	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
75-25-2	Bromoform	ND		ug/m ³	1.7	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
74-83-9	Bromomethane	ND		ug/m ³	0.62	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
75-15-0	Carbon disulfide	9.1		ug/m ³	0.50	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
56-23-5	Carbon tetrachloride	ND		ug/m ³	0.25	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
108-90-7	Chlorobenzene	0.81		ug/m ³	0.74	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
75-00-3	Chloroethane	ND		ug/m ³	0.42	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
67-66-3	Chloroform	11		ug/m ³	0.79	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
74-87-3	Chloromethane	ND		ug/m ³	0.33	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
156-59-2	cis-1,2-Dichloroethylene	810		ug/m ³	3.2	32.16	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 12:21	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	0.73	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
110-82-7	Cyclohexane	0.72		ug/m ³	0.55	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
124-48-1	Dibromochloromethane	ND		ug/m ³	1.4	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
75-71-8	Dichlorodifluoromethane	2.0		ug/m ³	0.80	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
141-78-6	* Ethyl acetate	ND		ug/m ³	1.2	1.608	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 03:39	AS
100-41-4	Ethyl Benzene	1.2		ug/m ³	0.70	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
87-68-3	Hexachlorobutadiene	ND		ug/m ³	1.7	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
67-63-0	Isopropanol	ND		ug/m ³	0.79	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS



Sample Information

Client Sample ID: B12

York Sample ID: 18K0273-12

York Project (SDG) No.

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Soil Vapor

November 7, 2018 12:10 pm

11/08/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
80-62-6	Methyl Methacrylate	ND		ug/m ³	0.66	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.58	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
75-09-2	Methylene chloride	ND		ug/m ³	1.1	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
142-82-5	n-Heptane	ND		ug/m ³	0.66	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
110-54-3	n-Hexane	ND		ug/m ³	0.57	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
95-47-6	o-Xylene	1.7		ug/m ³	0.70	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
179601-23-1	p- & m- Xylenes	4.3		ug/m ³	1.4	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
622-96-8	* p-Ethyltoluene	4.5		ug/m ³	0.79	1.608	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 03:39	AS
115-07-1	* Propylene	2.5		ug/m ³	0.28	1.608	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 03:39	AS
100-42-5	Styrene	1.4		ug/m ³	0.68	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
127-18-4	Tetrachloroethylene	8900		ug/m ³	11	64.32	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/13/2018 10:00	11/13/2018 19:50	AS
109-99-9	* Tetrahydrofuran	ND		ug/m ³	0.95	1.608	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 03:39	AS
108-88-3	Toluene	2.3		ug/m ³	0.61	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
156-60-5	trans-1,2-Dichloroethylene	17		ug/m ³	0.64	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	0.73	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
79-01-6	Trichloroethylene	490		ug/m ³	4.3	32.16	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 12:21	AS
75-69-4	Trichlorofluoromethane (Freon 11)	1.2		ug/m ³	0.90	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
108-05-4	Vinyl acetate	ND		ug/m ³	0.57	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
593-60-2	Vinyl bromide	ND		ug/m ³	0.70	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS
75-01-4	Vinyl Chloride	40		ug/m ³	0.10	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 03:39	AS

Surrogate Recoveries	Result	Acceptance Range
460-00-4 <i>Surrogate: SURR: p-Bromofluorobenzene</i>	108 %	70-130



Sample Information

Client Sample ID: B14

York Sample ID: 18K0273-13

York Project (SDG) No.

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Soil Vapor

November 7, 2018 12:17 pm

11/08/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m ³	0.94	1.363	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 04:31	AS
71-55-6	1,1,1-Trichloroethane	1.7		ug/m ³	0.74	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	0.94	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	1.0	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	0.74	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
75-34-3	1,1-Dichloroethane	ND		ug/m ³	0.55	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	0.14	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	1.0	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
95-63-6	1,2,4-Trimethylbenzene	5.6		ug/m ³	0.67	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
106-93-4	1,2-Dibromoethane	ND		ug/m ³	1.0	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	0.82	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
107-06-2	1,2-Dichloroethane	ND		ug/m ³	0.55	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
78-87-5	1,2-Dichloropropane	ND		ug/m ³	0.63	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	0.95	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
108-67-8	1,3,5-Trimethylbenzene	1.4		ug/m ³	0.67	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
106-99-0	1,3-Butadiene	ND		ug/m ³	0.90	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	0.82	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
142-28-9	* 1,3-Dichloropropane	ND		ug/m ³	0.63	1.363	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 04:31	AS
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	0.82	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
123-91-1	1,4-Dioxane	ND		ug/m ³	0.98	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
78-93-3	2-Butanone	1.3		ug/m ³	0.40	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
591-78-6	* 2-Hexanone	ND		ug/m ³	1.1	1.363	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 04:31	AS
107-05-1	3-Chloropropene	ND		ug/m ³	2.1	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS



Sample Information

Client Sample ID: B14

York Sample ID: 18K0273-13

York Project (SDG) No.

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Volatile Organics, EPA TO15 Full List

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Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	0.56	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
67-64-1	Acetone	4.8		ug/m ³	0.65	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
107-13-1	Acrylonitrile	ND		ug/m ³	0.30	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
71-43-2	Benzene	1.1		ug/m ³	0.44	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
100-44-7	Benzyl chloride	ND		ug/m ³	0.71	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
75-27-4	Bromodichloromethane	ND		ug/m ³	0.91	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
75-25-2	Bromoform	ND		ug/m ³	1.4	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
74-83-9	Bromomethane	ND		ug/m ³	0.53	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
75-15-0	Carbon disulfide	6.5		ug/m ³	0.42	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
56-23-5	Carbon tetrachloride	ND		ug/m ³	0.21	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
108-90-7	Chlorobenzene	ND		ug/m ³	0.63	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
75-00-3	Chloroethane	ND		ug/m ³	0.36	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
67-66-3	Chloroform	9.0		ug/m ³	0.67	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
74-87-3	Chloromethane	ND		ug/m ³	0.28	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
156-59-2	cis-1,2-Dichloroethylene	240		ug/m ³	2.7	27.26	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 13:07	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	0.62	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
110-82-7	Cyclohexane	0.66		ug/m ³	0.47	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
124-48-1	Dibromochloromethane	ND		ug/m ³	1.2	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
75-71-8	Dichlorodifluoromethane	1.8		ug/m ³	0.67	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
141-78-6	* Ethyl acetate	ND		ug/m ³	0.98	1.363	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 04:31	AS
100-41-4	Ethyl Benzene	1.0		ug/m ³	0.59	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
87-68-3	Hexachlorobutadiene	ND		ug/m ³	1.5	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
67-63-0	Isopropanol	ND		ug/m ³	0.67	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS



Sample Information

Client Sample ID: B14

York Sample ID: 18K0273-13

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0273

37321-STX 27-10 49th Ave.

Soil Vapor

November 7, 2018 12:17 pm

11/08/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
80-62-6	Methyl Methacrylate	ND		ug/m ³	0.56	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.49	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
75-09-2	Methylene chloride	ND		ug/m ³	0.95	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
142-82-5	n-Heptane	ND		ug/m ³	0.56	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
110-54-3	n-Hexane	ND		ug/m ³	0.48	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
95-47-6	o-Xylene	1.4		ug/m ³	0.59	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
179601-23-1	p- & m- Xylenes	3.4		ug/m ³	1.2	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
622-96-8	* p-Ethyltoluene	4.2		ug/m ³	0.67	1.363	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 04:31	AS
115-07-1	* Propylene	1.3		ug/m ³	0.23	1.363	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 04:31	AS
100-42-5	Styrene	1.3		ug/m ³	0.58	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
127-18-4	Tetrachloroethylene	6200		ug/m ³	4.6	27.26	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 13:07	AS
109-99-9	* Tetrahydrofuran	ND		ug/m ³	0.80	1.363	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 04:31	AS
108-88-3	Toluene	1.6		ug/m ³	0.51	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
156-60-5	trans-1,2-Dichloroethylene	17		ug/m ³	0.54	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	0.62	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
79-01-6	Trichloroethylene	280		ug/m ³	0.18	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
75-69-4	Trichlorofluoromethane (Freon 11)	1.1		ug/m ³	0.77	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
108-05-4	Vinyl acetate	ND		ug/m ³	0.48	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
593-60-2	Vinyl bromide	ND		ug/m ³	0.60	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
75-01-4	Vinyl Chloride	ND		ug/m ³	0.087	1.363	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 04:31	AS
	Surrogate Recoveries	Result		Acceptance Range						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	107 %		70-130						



Sample Information

Client Sample ID: DUP

York Sample ID: 18K0273-14

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0273

37321-STX 27-10 49th Ave.

Soil Vapor

November 7, 2018 12:21 pm

11/08/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m ³	1.1	1.608	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 05:23	AS
71-55-6	1,1,1-Trichloroethane	3.2		ug/m ³	0.88	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	1.1	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	1.2	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	0.88	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
75-34-3	1,1-Dichloroethane	ND		ug/m ³	0.65	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	0.16	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	1.2	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
95-63-6	1,2,4-Trimethylbenzene	4.8		ug/m ³	0.79	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
106-93-4	1,2-Dibromoethane	ND		ug/m ³	1.2	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	0.97	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
107-06-2	1,2-Dichloroethane	ND		ug/m ³	0.65	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
78-87-5	1,2-Dichloropropane	ND		ug/m ³	0.74	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	1.1	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
108-67-8	1,3,5-Trimethylbenzene	1.2		ug/m ³	0.79	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
106-99-0	1,3-Butadiene	ND		ug/m ³	1.1	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	0.97	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
142-28-9	* 1,3-Dichloropropane	ND		ug/m ³	0.74	1.608	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 05:23	AS
106-46-7	1,4-Dichlorobenzene	1.2		ug/m ³	0.97	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
123-91-1	1,4-Dioxane	ND		ug/m ³	1.2	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
78-93-3	2-Butanone	2.2		ug/m ³	0.47	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
591-78-6	* 2-Hexanone	ND		ug/m ³	1.3	1.608	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 05:23	AS
107-05-1	3-Chloropropene	ND		ug/m ³	2.5	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS



Sample Information

Client Sample ID: DUP

York Sample ID: 18K0273-14

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0273

37321-STX 27-10 49th Ave.

Soil Vapor

November 7, 2018 12:21 pm

11/08/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	0.66	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
67-64-1	Acetone	3.9		ug/m ³	0.76	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
107-13-1	Acrylonitrile	ND		ug/m ³	0.35	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
71-43-2	Benzene	3.4		ug/m ³	0.51	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
100-44-7	Benzyl chloride	ND		ug/m ³	0.83	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
75-27-4	Bromodichloromethane	ND		ug/m ³	1.1	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
75-25-2	Bromoform	ND		ug/m ³	1.7	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
74-83-9	Bromomethane	ND		ug/m ³	0.62	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
75-15-0	Carbon disulfide	15		ug/m ³	0.50	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
56-23-5	Carbon tetrachloride	ND		ug/m ³	0.25	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
108-90-7	Chlorobenzene	ND		ug/m ³	0.74	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
75-00-3	Chloroethane	ND		ug/m ³	0.42	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
67-66-3	Chloroform	12		ug/m ³	0.79	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
74-87-3	Chloromethane	ND		ug/m ³	0.33	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	0.16	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	0.73	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
110-82-7	Cyclohexane	2.3		ug/m ³	0.55	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
124-48-1	Dibromochloromethane	ND		ug/m ³	1.4	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
75-71-8	Dichlorodifluoromethane	1.7		ug/m ³	0.80	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
141-78-6	* Ethyl acetate	ND		ug/m ³	1.2	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
100-41-4	Ethyl Benzene	0.91		ug/m ³	0.70	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
87-68-3	Hexachlorobutadiene	ND		ug/m ³	1.7	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
67-63-0	Isopropanol	ND		ug/m ³	0.79	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS



Sample Information

Client Sample ID: DUP

York Sample ID: 18K0273-14

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0273

37321-STX 27-10 49th Ave.

Soil Vapor

November 7, 2018 12:21 pm

11/08/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
80-62-6	Methyl Methacrylate	ND		ug/m ³	0.66	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.58	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
75-09-2	Methylene chloride	2.3		ug/m ³	1.1	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
142-82-5	n-Heptane	ND		ug/m ³	0.66	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
110-54-3	n-Hexane	2.8		ug/m ³	0.57	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
95-47-6	o-Xylene	1.7		ug/m ³	0.70	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
179601-23-1	p- & m- Xylenes	3.5		ug/m ³	1.4	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
622-96-8	* p-Ethyltoluene	3.2		ug/m ³	0.79	1.608	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 05:23	AS
115-07-1	* Propylene	0.50		ug/m ³	0.28	1.608	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 05:23	AS
100-42-5	Styrene	ND		ug/m ³	0.68	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
127-18-4	Tetrachloroethylene	11000		ug/m ³	11	64.32	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/13/2018 10:00	11/13/2018 20:36	AS
109-99-9	* Tetrahydrofuran	ND		ug/m ³	0.95	1.608	EPA TO-15 Certifications:	11/12/2018 10:00	11/13/2018 05:23	AS
108-88-3	Toluene	3.4		ug/m ³	0.61	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	0.64	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	0.73	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
79-01-6	Trichloroethylene	1400		ug/m ³	4.3	32.16	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 13:53	AS
75-69-4	Trichlorofluoromethane (Freon 11)	1.4		ug/m ³	0.90	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
108-05-4	Vinyl acetate	ND		ug/m ³	0.57	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
593-60-2	Vinyl bromide	ND		ug/m ³	0.70	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
75-01-4	Vinyl Chloride	ND		ug/m ³	0.10	1.608	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	11/12/2018 10:00	11/13/2018 05:23	AS
	Surrogate Recoveries	Result		Acceptance Range						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	109 %		70-130						



Analytical Batch Summary

Batch ID: BK80529 **Preparation Method:** EPA TO15 PREP **Prepared By:** AS

YORK Sample ID	Client Sample ID	Preparation Date
18K0273-01	B-2	11/09/18
BK80529-BLK1	Blank	11/09/18
BK80529-BS1	LCS	11/09/18

Batch ID: BK80617 **Preparation Method:** EPA TO15 PREP **Prepared By:** AS

YORK Sample ID	Client Sample ID	Preparation Date
18K0273-02	B-4	11/12/18
18K0273-03	C-7	11/12/18
18K0273-04	11-6-DUP	11/12/18
18K0273-05	AA	11/12/18
18K0273-06	C5	11/12/18
18K0273-06RE1	C5	11/12/18
18K0273-07	B6	11/12/18
18K0273-07RE1	B6	11/12/18
18K0273-08	C3	11/12/18
18K0273-08RE1	C3	11/12/18
18K0273-09	D1	11/12/18
18K0273-09RE1	D1	11/12/18
18K0273-10	A10	11/12/18
18K0273-10RE1	A10	11/12/18
18K0273-11	C11	11/12/18
18K0273-12	B12	11/12/18
18K0273-12RE1	B12	11/12/18
18K0273-13	B14	11/12/18
18K0273-13RE1	B14	11/12/18
18K0273-14	DUP	11/12/18
18K0273-14RE1	DUP	11/12/18
BK80617-BLK1	Blank	11/12/18
BK80617-BS1	LCS	11/12/18
BK80617-DUP1	Duplicate	11/12/18

Batch ID: BK80790 **Preparation Method:** EPA TO15 PREP **Prepared By:** AS

YORK Sample ID	Client Sample ID	Preparation Date
18K0273-12RE2	B12	11/13/18
18K0273-14RE2	DUP	11/13/18
BK80790-BLK1	Blank	11/13/18
BK80790-BS1	LCS	11/13/18



Volatile Organic Compounds in Air 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 BK80529 - EPA TO15 PREP

Blank (BK80529-BLK1)

Prepared & Analyzed: 11/09/2018

1,1,1,2-Tetrachloroethane	ND	0.69	ug/m ³								
1,1,1-Trichloroethane	ND	0.55	"								
1,1,2,2-Tetrachloroethane	ND	0.69	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.77	"								
1,1,2-Trichloroethane	ND	0.55	"								
1,1-Dichloroethane	ND	0.40	"								
1,1-Dichloroethylene	ND	0.099	"								
1,2,4-Trichlorobenzene	ND	0.74	"								
1,2,4-Trimethylbenzene	ND	0.49	"								
1,2-Dibromoethane	ND	0.77	"								
1,2-Dichlorobenzene	ND	0.60	"								
1,2-Dichloroethane	ND	0.40	"								
1,2-Dichloropropane	ND	0.46	"								
1,2-Dichlorotetrafluoroethane	ND	0.70	"								
1,3,5-Trimethylbenzene	ND	0.49	"								
1,3-Butadiene	ND	0.66	"								
1,3-Dichlorobenzene	ND	0.60	"								
1,3-Dichloropropane	ND	0.46	"								
1,4-Dichlorobenzene	ND	0.60	"								
1,4-Dioxane	ND	0.72	"								
2-Butanone	ND	0.29	"								
2-Hexanone	ND	0.82	"								
3-Chloropropene	ND	1.6	"								
4-Methyl-2-pentanone	ND	0.41	"								
Acetone	ND	0.48	"								
Acrylonitrile	ND	0.22	"								
Benzene	ND	0.32	"								
Benzyl chloride	ND	0.52	"								
Bromodichloromethane	ND	0.67	"								
Bromoform	ND	1.0	"								
Bromomethane	ND	0.39	"								
Carbon disulfide	ND	0.31	"								
Carbon tetrachloride	ND	0.16	"								
Chlorobenzene	ND	0.46	"								
Chloroethane	ND	0.26	"								
Chloroform	ND	0.49	"								
Chloromethane	ND	0.21	"								
cis-1,2-Dichloroethylene	ND	0.099	"								
cis-1,3-Dichloropropylene	ND	0.45	"								
Cyclohexane	ND	0.34	"								
Dibromochloromethane	ND	0.85	"								
Dichlorodifluoromethane	ND	0.49	"								
Ethyl acetate	ND	0.72	"								
Ethyl Benzene	ND	0.43	"								
Hexachlorobutadiene	ND	1.1	"								
Isopropanol	ND	0.49	"								
Methyl Methacrylate	ND	0.41	"								
Methyl tert-butyl ether (MTBE)	ND	0.36	"								
Methylene chloride	ND	0.69	"								
n-Heptane	ND	0.41	"								



Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit			Result					Limit	

Batch BK80529 - EPA TO15 PREP

Blank (BK80529-BLK1)

Prepared & Analyzed: 11/09/2018

n-Hexane	ND	0.35	ug/m ³								
o-Xylene	ND	0.43	"								
p- & m- Xylenes	ND	0.87	"								
p-Ethyltoluene	ND	0.49	"								
Propylene	ND	0.17	"								
Styrene	ND	0.43	"								
Tetrachloroethylene	ND	0.17	"								
Tetrahydrofuran	ND	0.59	"								
Toluene	ND	0.38	"								
trans-1,2-Dichloroethylene	ND	0.40	"								
trans-1,3-Dichloropropylene	ND	0.45	"								
Trichloroethylene	ND	0.13	"								
Trichlorofluoromethane (Freon 11)	ND	0.56	"								
Vinyl acetate	ND	0.35	"								
Vinyl bromide	ND	0.44	"								
Vinyl Chloride	ND	0.064	"								

Surrogate: SURR: p-Bromofluorobenzene 8.75 ppbv 10.0 87.5 70-130

LCS (BK80529-BS1)

Prepared & Analyzed: 11/09/2018

1,1,1,2-Tetrachloroethane	8.65		ppbv	10.0		86.5	70-130				
1,1,1-Trichloroethane	8.29		"	10.0		82.9	70-130				
1,1,2,2-Tetrachloroethane	8.65		"	10.0		86.5	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.91		"	10.0		89.1	70-130				
1,1,2-Trichloroethane	8.39		"	10.0		83.9	70-130				
1,1-Dichloroethane	8.41		"	10.0		84.1	70-130				
1,1-Dichloroethylene	7.46		"	10.0		74.6	70-130				
1,2,4-Trichlorobenzene	8.19		"	10.0		81.9	70-130				
1,2,4-Trimethylbenzene	8.67		"	10.0		86.7	70-130				
1,2-Dibromoethane	8.27		"	10.0		82.7	70-130				
1,2-Dichlorobenzene	9.51		"	10.0		95.1	70-130				
1,2-Dichloroethane	7.32		"	10.0		73.2	70-130				
1,2-Dichloropropane	7.97		"	10.0		79.7	70-130				
1,2-Dichlorotetrafluoroethane	10.7		"	10.0		107	70-130				
1,3,5-Trimethylbenzene	8.77		"	10.0		87.7	70-130				
1,3-Butadiene	12.7		"	10.0		127	70-130				
1,3-Dichlorobenzene	9.93		"	10.0		99.3	70-130				
1,3-Dichloropropane	7.93		"	10.0		79.3	70-130				
1,4-Dichlorobenzene	10.2		"	10.0		102	70-130				
1,4-Dioxane	7.78		"	10.0		77.8	70-130				
2-Butanone	7.60		"	10.0		76.0	70-130				
2-Hexanone	7.93		"	10.0		79.3	70-130				
3-Chloropropene	7.46		"	10.0		74.6	70-130				
4-Methyl-2-pentanone	7.51		"	10.0		75.1	70-130				
Acetone	6.96		"	10.0		69.6	70-130		Low Bias		
Acrylonitrile	8.62		"	10.0		86.2	70-130				
Benzene	8.50		"	10.0		85.0	70-130				
Benzyl chloride	8.80		"	10.0		88.0	70-130				
Bromodichloromethane	7.95		"	10.0		79.5	70-130				
Bromoform	9.13		"	10.0		91.3	70-130				
Bromomethane	8.48		"	10.0		84.8	70-130				
Carbon disulfide	9.43		"	10.0		94.3	70-130				



Volatile Organic Compounds in Air 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 BK80529 - EPA TO15 PREP

LCS (BK80529-BS1)

Prepared & Analyzed: 11/09/2018

Carbon tetrachloride	7.62		ppbv	10.0		76.2	70-130				
Chlorobenzene	9.05		"	10.0		90.5	70-130				
Chloroethane	9.94		"	10.0		99.4	70-130				
Chloroform	8.33		"	10.0		83.3	70-130				
Chloromethane	10.3		"	10.0		103	70-130				
cis-1,2-Dichloroethylene	7.79		"	10.0		77.9	70-130				
cis-1,3-Dichloropropylene	8.20		"	10.0		82.0	70-130				
Cyclohexane	8.53		"	10.0		85.3	70-130				
Dibromochloromethane	8.27		"	10.0		82.7	70-130				
Dichlorodifluoromethane	7.89		"	10.0		78.9	70-130				
Ethyl acetate	7.80		"	10.0		78.0	70-130				
Ethyl Benzene	8.25		"	10.0		82.5	70-130				
Hexachlorobutadiene	8.14		"	10.0		81.4	70-130				
Isopropanol	8.87		"	10.0		88.7	70-130				
Methyl Methacrylate	8.12		"	10.0		81.2	70-130				
Methyl tert-butyl ether (MTBE)	14.8		"	10.0		148	70-130	High Bias			
Methylene chloride	8.14		"	10.0		81.4	70-130				
n-Heptane	7.64		"	10.0		76.4	70-130				
n-Hexane	8.66		"	10.0		86.6	70-130				
o-Xylene	8.02		"	10.0		80.2	70-130				
p- & m- Xylenes	16.7		"	20.0		83.5	70-130				
p-Ethyltoluene	9.34		"	10.0		93.4	70-130				
Propylene	7.30		"	10.0		73.0	70-130				
Styrene	9.35		"	10.0		93.5	70-130				
Tetrachloroethylene	8.66		"	10.0		86.6	70-130				
Tetrahydrofuran	7.92		"	10.0		79.2	70-130				
Toluene	8.15		"	10.0		81.5	70-130				
trans-1,2-Dichloroethylene	8.54		"	10.0		85.4	70-130				
trans-1,3-Dichloropropylene	7.64		"	10.0		76.4	70-130				
Trichloroethylene	7.63		"	10.0		76.3	70-130				
Trichlorofluoromethane (Freon 11)	8.12		"	10.0		81.2	70-130				
Vinyl acetate	11.0		"	10.0		110	70-130				
Vinyl bromide	9.41		"	10.0		94.1	70-130				
Vinyl Chloride	10.3		"	10.0		103	70-130				
Surrogate: SURR: p-Bromofluorobenzene	9.84		"	10.0		98.4	70-130				



Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit								RPD	

Batch BK80617 - EPA TO15 PREP

Blank (BK80617-BLK1)

Prepared & Analyzed: 11/12/2018

1,1,1,2-Tetrachloroethane	ND	0.69	ug/m ³
1,1,1-Trichloroethane	ND	0.55	"
1,1,2,2-Tetrachloroethane	ND	0.69	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.77	"
1,1,2-Trichloroethane	ND	0.55	"
1,1-Dichloroethane	ND	0.40	"
1,1-Dichloroethylene	ND	0.099	"
1,2,4-Trichlorobenzene	ND	0.74	"
1,2,4-Trimethylbenzene	ND	0.49	"
1,2-Dibromoethane	ND	0.77	"
1,2-Dichlorobenzene	ND	0.60	"
1,2-Dichloroethane	ND	0.40	"
1,2-Dichloropropane	ND	0.46	"
1,2-Dichlorotetrafluoroethane	ND	0.70	"
1,3,5-Trimethylbenzene	ND	0.49	"
1,3-Butadiene	ND	0.66	"
1,3-Dichlorobenzene	ND	0.60	"
1,3-Dichloropropane	ND	0.46	"
1,4-Dichlorobenzene	ND	0.60	"
1,4-Dioxane	ND	0.72	"
2-Butanone	ND	0.29	"
2-Hexanone	ND	0.82	"
3-Chloropropene	ND	1.6	"
4-Methyl-2-pentanone	ND	0.41	"
Acetone	ND	0.48	"
Acrylonitrile	ND	0.22	"
Benzene	ND	0.32	"
Benzyl chloride	ND	0.52	"
Bromodichloromethane	ND	0.67	"
Bromoform	ND	1.0	"
Bromomethane	ND	0.39	"
Carbon disulfide	ND	0.31	"
Carbon tetrachloride	ND	0.16	"
Chlorobenzene	ND	0.46	"
Chloroethane	ND	0.26	"
Chloroform	ND	0.49	"
Chloromethane	ND	0.21	"
cis-1,2-Dichloroethylene	ND	0.099	"
cis-1,3-Dichloropropylene	ND	0.45	"
Cyclohexane	ND	0.34	"
Dibromochloromethane	ND	0.85	"
Dichlorodifluoromethane	ND	0.49	"
Ethyl acetate	ND	0.72	"
Ethyl Benzene	ND	0.43	"
Hexachlorobutadiene	ND	1.1	"
Isopropanol	ND	0.49	"
Methyl Methacrylate	ND	0.41	"
Methyl tert-butyl ether (MTBE)	ND	0.36	"
Methylene chloride	ND	0.69	"
n-Heptane	ND	0.41	"
n-Hexane	ND	0.35	"



Volatile Organic Compounds in Air 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 BK80617 - EPA TO15 PREP

Blank (BK80617-BLK1)

Prepared & Analyzed: 11/12/2018

o-Xylene	ND	0.43	ug/m ³								
p- & m- Xylenes	ND	0.87	"								
p-Ethyltoluene	ND	0.49	"								
Propylene	ND	0.17	"								
Styrene	ND	0.43	"								
Tetrachloroethylene	ND	0.17	"								
Tetrahydrofuran	ND	0.59	"								
Toluene	ND	0.38	"								
trans-1,2-Dichloroethylene	ND	0.40	"								
trans-1,3-Dichloropropylene	ND	0.45	"								
Trichloroethylene	ND	0.13	"								
Trichlorofluoromethane (Freon 11)	ND	0.56	"								
Vinyl acetate	ND	0.35	"								
Vinyl bromide	ND	0.44	"								
Vinyl Chloride	ND	0.064	"								

Surrogate: SURR: p-Bromofluorobenzene	8.92		ppbv	10.0		89.2	70-130				
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LCS (BK80617-BS1)

Prepared & Analyzed: 11/12/2018

1,1,1,2-Tetrachloroethane	8.87		ppbv	10.0		88.7	70-130				
1,1,1-Trichloroethane	8.05		"	10.0		80.5	70-130				
1,1,2,2-Tetrachloroethane	8.74		"	10.0		87.4	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.86		"	10.0		88.6	70-130				
1,1,2-Trichloroethane	8.73		"	10.0		87.3	70-130				
1,1-Dichloroethane	8.34		"	10.0		83.4	70-130				
1,1-Dichloroethylene	7.53		"	10.0		75.3	70-130				
1,2,4-Trichlorobenzene	8.42		"	10.0		84.2	70-130				
1,2,4-Trimethylbenzene	8.79		"	10.0		87.9	70-130				
1,2-Dibromoethane	8.88		"	10.0		88.8	70-130				
1,2-Dichlorobenzene	9.77		"	10.0		97.7	70-130				
1,2-Dichloroethane	7.26		"	10.0		72.6	70-130				
1,2-Dichloropropane	8.57		"	10.0		85.7	70-130				
1,2-Dichlorotetrafluoroethane	8.01		"	10.0		80.1	70-130				
1,3,5-Trimethylbenzene	8.06		"	10.0		80.6	70-130				
1,3-Butadiene	7.19		"	10.0		71.9	70-130				
1,3-Dichlorobenzene	10.2		"	10.0		102	70-130				
1,3-Dichloropropane	8.52		"	10.0		85.2	70-130				
1,4-Dichlorobenzene	10.4		"	10.0		104	70-130				
1,4-Dioxane	7.25		"	10.0		72.5	70-130				
2-Butanone	7.73		"	10.0		77.3	70-130				
2-Hexanone	7.55		"	10.0		75.5	70-130				
3-Chloropropene	7.82		"	10.0		78.2	70-130				
4-Methyl-2-pentanone	7.56		"	10.0		75.6	70-130				
Acetone	7.17		"	10.0		71.7	70-130				
Acrylonitrile	8.74		"	10.0		87.4	70-130				
Benzene	8.35		"	10.0		83.5	70-130				
Benzyl chloride	8.88		"	10.0		88.8	70-130				
Bromodichloromethane	8.49		"	10.0		84.9	70-130				
Bromoform	9.36		"	10.0		93.6	70-130				
Bromomethane	8.91		"	10.0		89.1	70-130				
Carbon disulfide	8.88		"	10.0		88.8	70-130				
Carbon tetrachloride	7.48		"	10.0		74.8	70-130				



Volatile Organic Compounds in Air 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 BK80617 - EPA TO15 PREP

LCS (BK80617-BS1)

Prepared & Analyzed: 11/12/2018

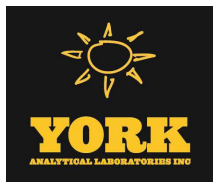
Chlorobenzene	9.19		ppbv	10.0		91.9	70-130				
Chloroethane	9.89		"	10.0		98.9	70-130				
Chloroform	8.25		"	10.0		82.5	70-130				
Chloromethane	7.09		"	10.0		70.9	70-130				
cis-1,2-Dichloroethylene	7.93		"	10.0		79.3	70-130				
cis-1,3-Dichloropropylene	8.57		"	10.0		85.7	70-130				
Cyclohexane	8.49		"	10.0		84.9	70-130				
Dibromochloromethane	8.80		"	10.0		88.0	70-130				
Dichlorodifluoromethane	8.73		"	10.0		87.3	70-130				
Ethyl acetate	8.23		"	10.0		82.3	70-130				
Ethyl Benzene	8.39		"	10.0		83.9	70-130				
Hexachlorobutadiene	8.63		"	10.0		86.3	70-130				
Isopropanol	7.03		"	10.0		70.3	70-130				
Methyl Methacrylate	8.64		"	10.0		86.4	70-130				
Methyl tert-butyl ether (MTBE)	3.64		"	10.0		36.4	70-130	Low Bias			
Methylene chloride	8.32		"	10.0		83.2	70-130				
n-Heptane	7.69		"	10.0		76.9	70-130				
n-Hexane	8.58		"	10.0		85.8	70-130				
o-Xylene	8.07		"	10.0		80.7	70-130				
p- & m- Xylenes	17.0		"	20.0		85.0	70-130				
p-Ethyltoluene	9.82		"	10.0		98.2	70-130				
Propylene	8.94		"	10.0		89.4	70-130				
Styrene	8.51		"	10.0		85.1	70-130				
Tetrachloroethylene	9.05		"	10.0		90.5	70-130				
Tetrahydrofuran	7.91		"	10.0		79.1	70-130				
Toluene	8.60		"	10.0		86.0	70-130				
trans-1,2-Dichloroethylene	8.36		"	10.0		83.6	70-130				
trans-1,3-Dichloropropylene	8.45		"	10.0		84.5	70-130				
Trichloroethylene	7.86		"	10.0		78.6	70-130				
Trichlorofluoromethane (Freon 11)	8.26		"	10.0		82.6	70-130				
Vinyl acetate	4.31		"	10.0		43.1	70-130	Low Bias			
Vinyl bromide	9.18		"	10.0		91.8	70-130				
Vinyl Chloride	7.14		"	10.0		71.4	70-130				
Surrogate: Surr: p-Bromofluorobenzene	10.2		"	10.0		102	70-130				



Volatile Organic Compounds in Air 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
Batch BK80617 - EPA TO15 PREP											
Duplicate (BK80617-DUP1)		*Source sample: 18K0273-02 (B-4)				Prepared & Analyzed: 11/12/2018					
1,1,1,2-Tetrachloroethane	ND	0.68	ug/m ³		ND					25	
1,1,1-Trichloroethane	6.5	0.54	"		6.6				1.65	25	
1,1,2,2-Tetrachloroethane	ND	0.68	"		ND					25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.76	"		ND					25	
1,1,2-Trichloroethane	ND	0.54	"		ND					25	
1,1-Dichloroethane	4.3	0.40	"		4.4				1.83	25	
1,1-Dichloroethylene	0.39	0.098	"		0.43				9.52	25	
1,2,4-Trichlorobenzene	ND	0.74	"		ND					25	
1,2,4-Trimethylbenzene	1.4	0.49	"		1.3				10.9	25	
1,2-Dibromoethane	ND	0.76	"		ND					25	
1,2-Dichlorobenzene	ND	0.60	"		ND					25	
1,2-Dichloroethane	ND	0.40	"		ND					25	
1,2-Dichloropropane	ND	0.46	"		ND					25	
1,2-Dichlorotetrafluoroethane	ND	0.69	"		ND					25	
1,3,5-Trimethylbenzene	ND	0.49	"		ND					25	
1,3-Butadiene	ND	0.66	"		ND					25	
1,3-Dichlorobenzene	ND	0.60	"		ND					25	
1,3-Dichloropropane	ND	0.46	"		ND					25	
1,4-Dichlorobenzene	ND	0.60	"		ND					25	
1,4-Dioxane	ND	0.72	"		ND					25	
2-Butanone	1.4	0.29	"		1.4				0.00	25	
2-Hexanone	ND	0.81	"		ND					25	
3-Chloropropene	ND	1.6	"		ND					25	
4-Methyl-2-pentanone	0.45	0.41	"		0.41				9.52	25	
Acetone	8.6	0.47	"		8.3				3.92	25	
Acrylonitrile	ND	0.22	"		ND					25	
Benzene	0.95	0.32	"		0.95				0.00	25	
Benzyl chloride	ND	0.51	"		ND					25	
Bromodichloromethane	ND	0.67	"		ND					25	
Bromoform	ND	1.0	"		ND					25	
Bromomethane	ND	0.39	"		ND					25	
Carbon disulfide	ND	0.31	"		ND					25	
Carbon tetrachloride	0.44	0.16	"		0.44				0.00	25	
Chlorobenzene	ND	0.46	"		ND					25	
Chloroethane	ND	0.26	"		ND					25	
Chloroform	ND	0.48	"		ND					25	
Chloromethane	ND	0.21	"		ND					25	
cis-1,2-Dichloroethylene	ND	0.098	"		ND					25	
cis-1,3-Dichloropropylene	ND	0.45	"		ND					25	
Cyclohexane	0.51	0.34	"		0.48				6.90	25	
Dibromochloromethane	ND	0.85	"		ND					25	
Dichlorodifluoromethane	1.6	0.49	"		1.6				0.00	25	
Ethyl acetate	0.82	0.72	"		0.82				0.00	25	
Ethyl Benzene	0.95	0.43	"		0.91				4.65	25	
Hexachlorobutadiene	ND	1.1	"		ND					25	
Isopropanol	3.4	0.49	"		3.4				0.00	25	
Methyl Methacrylate	ND	0.41	"		ND					25	
Methyl tert-butyl ether (MTBE)	ND	0.36	"		ND					25	
Methylene chloride	2.3	0.69	"		2.3				1.48	25	
n-Heptane	0.69	0.41	"		0.69				0.00	25	
n-Hexane	1.2	0.35	"		1.1				3.08	25	



Volatile Organic Compounds in Air 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 BK80617 - EPA TO15 PREP

Duplicate (BK80617-DUP1)	*Source sample: 18K0273-02 (B-4)				Prepared & Analyzed: 11/12/2018						
o-Xylene	1.1	0.43	ug/m ³		0.99					8.33	25
p- & m- Xylenes	3.3	0.86	"		3.0					8.22	25
p-Ethyltoluene	1.3	0.49	"		1.2					11.8	25
Propylene	2.0	0.17	"		1.9					1.75	25
Styrene	0.42	0.42	"		0.42					0.00	25
Tetrachloroethylene	110	0.17	"		96					12.9	25
Tetrahydrofuran	ND	0.59	"		ND						25
Toluene	5.4	0.37	"		5.3					2.80	25
trans-1,2-Dichloroethylene	ND	0.39	"		ND						25
trans-1,3-Dichloropropylene	ND	0.45	"		ND						25
Trichloroethylene	12	0.13	"		11					5.98	25
Trichlorofluoromethane (Freon 11)	1.8	0.56	"		1.8					0.00	25
Vinyl acetate	ND	0.35	"		ND						25
Vinyl bromide	ND	0.43	"		ND						25
Vinyl Chloride	ND	0.063	"		ND						25
Surrogate: SURR: p-Bromofluorobenzene	10.3		ppbv	10.0		103	70-130				

Batch BK80790 - EPA TO15 PREP

Blank (BK80790-BLK1)	Prepared & Analyzed: 11/13/2018										
1,1,1,2-Tetrachloroethane	ND	0.69	ug/m ³								
1,1,1-Trichloroethane	ND	0.55	"								
1,1,2,2-Tetrachloroethane	ND	0.69	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.77	"								
1,1,2-Trichloroethane	ND	0.55	"								
1,1-Dichloroethane	ND	0.40	"								
1,1-Dichloroethylene	ND	0.099	"								
1,2,4-Trichlorobenzene	ND	0.74	"								
1,2,4-Trimethylbenzene	ND	0.49	"								
1,2-Dibromoethane	ND	0.77	"								
1,2-Dichlorobenzene	ND	0.60	"								
1,2-Dichloroethane	ND	0.40	"								
1,2-Dichloropropane	ND	0.46	"								
1,2-Dichlorotetrafluoroethane	ND	0.70	"								
1,3,5-Trimethylbenzene	ND	0.49	"								
1,3-Butadiene	ND	0.66	"								
1,3-Dichlorobenzene	ND	0.60	"								
1,3-Dichloropropane	ND	0.46	"								
1,4-Dichlorobenzene	ND	0.60	"								
1,4-Dioxane	ND	0.72	"								
2-Butanone	ND	0.29	"								
2-Hexanone	ND	0.82	"								
3-Chloropropene	ND	1.6	"								
4-Methyl-2-pentanone	ND	0.41	"								
Acetone	ND	0.48	"								
Acrylonitrile	ND	0.22	"								
Benzene	ND	0.32	"								
Benzyl chloride	ND	0.52	"								
Bromodichloromethane	ND	0.67	"								
Bromoform	ND	1.0	"								
Bromomethane	ND	0.39	"								



Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	Limits	Flag	RPD	Limit	Flag
		Limit		Level	Result	%REC			RPD		

Batch BK80790 - EPA TO15 PREP

Blank (BK80790-BLK1)

Prepared & Analyzed: 11/13/2018

Carbon disulfide	ND	0.31	ug/m ³								
Carbon tetrachloride	ND	0.16	"								
Chlorobenzene	ND	0.46	"								
Chloroethane	ND	0.26	"								
Chloroform	ND	0.49	"								
Chloromethane	ND	0.21	"								
cis-1,2-Dichloroethylene	ND	0.099	"								
cis-1,3-Dichloropropylene	ND	0.45	"								
Cyclohexane	ND	0.34	"								
Dibromochloromethane	ND	0.85	"								
Dichlorodifluoromethane	ND	0.49	"								
Ethyl acetate	ND	0.72	"								
Ethyl Benzene	ND	0.43	"								
Hexachlorobutadiene	ND	1.1	"								
Isopropanol	ND	0.49	"								
Methyl Methacrylate	ND	0.41	"								
Methyl tert-butyl ether (MTBE)	ND	0.36	"								
Methylene chloride	ND	0.69	"								
n-Heptane	ND	0.41	"								
n-Hexane	ND	0.35	"								
o-Xylene	ND	0.43	"								
p- & m- Xylenes	ND	0.87	"								
p-Ethyltoluene	ND	0.49	"								
Propylene	ND	0.17	"								
Styrene	ND	0.43	"								
Tetrachloroethylene	ND	0.17	"								
Tetrahydrofuran	ND	0.59	"								
Toluene	ND	0.38	"								
trans-1,2-Dichloroethylene	ND	0.40	"								
trans-1,3-Dichloropropylene	ND	0.45	"								
Trichloroethylene	ND	0.13	"								
Trichlorofluoromethane (Freon 11)	ND	0.56	"								
Vinyl acetate	ND	0.35	"								
Vinyl bromide	ND	0.44	"								
Vinyl Chloride	ND	0.064	"								

Surrogate: SURR: p-Bromofluorobenzene	8.67		ppbv	10.0		86.7	70-130				
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Volatile Organic Compounds in Air 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 BK80790 - EPA TO15 PREP

LCS (BK80790-BS1)

Prepared & Analyzed: 11/13/2018

1,1,1,2-Tetrachloroethane	8.45		ppbv	10.0		84.5	70-130				
1,1,1-Trichloroethane	7.83		"	10.0		78.3	70-130				
1,1,2,2-Tetrachloroethane	8.65		"	10.0		86.5	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.58		"	10.0		85.8	70-130				
1,1,2-Trichloroethane	8.44		"	10.0		84.4	70-130				
1,1-Dichloroethane	8.17		"	10.0		81.7	70-130				
1,1-Dichloroethylene	7.35		"	10.0		73.5	70-130				
1,2,4-Trichlorobenzene	7.21		"	10.0		72.1	70-130				
1,2,4-Trimethylbenzene	8.22		"	10.0		82.2	70-130				
1,2-Dibromoethane	8.35		"	10.0		83.5	70-130				
1,2-Dichlorobenzene	9.29		"	10.0		92.9	70-130				
1,2-Dichloroethane	7.13		"	10.0		71.3	70-130				
1,2-Dichloropropane	8.19		"	10.0		81.9	70-130				
1,2-Dichlorotetrafluoroethane	8.02		"	10.0		80.2	70-130				
1,3,5-Trimethylbenzene	7.75		"	10.0		77.5	70-130				
1,3-Butadiene	7.27		"	10.0		72.7	70-130				
1,3-Dichlorobenzene	9.60		"	10.0		96.0	70-130				
1,3-Dichloropropane	8.11		"	10.0		81.1	70-130				
1,4-Dichlorobenzene	9.68		"	10.0		96.8	70-130				
1,4-Dioxane	7.67		"	10.0		76.7	70-130				
2-Butanone	7.65		"	10.0		76.5	70-130				
2-Hexanone	8.29		"	10.0		82.9	70-130				
3-Chloropropene	7.46		"	10.0		74.6	70-130				
4-Methyl-2-pentanone	7.83		"	10.0		78.3	70-130				
Acetone	7.06		"	10.0		70.6	70-130				
Acrylonitrile	8.75		"	10.0		87.5	70-130				
Benzene	7.99		"	10.0		79.9	70-130				
Benzyl chloride	8.44		"	10.0		84.4	70-130				
Bromodichloromethane	8.08		"	10.0		80.8	70-130				
Bromoform	8.96		"	10.0		89.6	70-130				
Bromomethane	7.86		"	10.0		78.6	70-130				
Carbon disulfide	9.04		"	10.0		90.4	70-130				
Carbon tetrachloride	7.07		"	10.0		70.7	70-130				
Chlorobenzene	8.88		"	10.0		88.8	70-130				
Chloroethane	9.36		"	10.0		93.6	70-130				
Chloroform	7.97		"	10.0		79.7	70-130				
Chloromethane	7.28		"	10.0		72.8	70-130				
cis-1,2-Dichloroethylene	7.57		"	10.0		75.7	70-130				
cis-1,3-Dichloropropylene	8.25		"	10.0		82.5	70-130				
Cyclohexane	8.29		"	10.0		82.9	70-130				
Dibromochloromethane	8.25		"	10.0		82.5	70-130				
Dichlorodifluoromethane	8.75		"	10.0		87.5	70-130				
Ethyl acetate	7.82		"	10.0		78.2	70-130				
Ethyl Benzene	8.11		"	10.0		81.1	70-130				
Hexachlorobutadiene	8.42		"	10.0		84.2	70-130				
Isopropanol	8.88		"	10.0		88.8	70-130				
Methyl Methacrylate	8.09		"	10.0		80.9	70-130				
Methyl tert-butyl ether (MTBE)	13.9		"	10.0		139	70-130	High Bias			
Methylene chloride	8.12		"	10.0		81.2	70-130				
n-Heptane	7.51		"	10.0		75.1	70-130				
n-Hexane	8.49		"	10.0		84.9	70-130				



Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit								Limit			

Batch BK80790 - EPA TO15 PREP

LCS (BK80790-BS1)

Prepared & Analyzed: 11/13/2018

o-Xylene	7.62		ppbv	10.0		76.2		70-130					
p- & m- Xylenes	16.2		"	20.0		81.0		70-130					
p-Ethyltoluene	5.56		"	10.0		55.6		70-130	Low Bias				
Propylene	7.96		"	10.0		79.6		70-130					
Styrene	8.78		"	10.0		87.8		70-130					
Tetrachloroethylene	8.54		"	10.0		85.4		70-130					
Tetrahydrofuran	7.80		"	10.0		78.0		70-130					
Toluene	8.08		"	10.0		80.8		70-130					
trans-1,2-Dichloroethylene	8.46		"	10.0		84.6		70-130					
trans-1,3-Dichloropropylene	7.70		"	10.0		77.0		70-130					
Trichloroethylene	7.56		"	10.0		75.6		70-130					
Trichlorofluoromethane (Freon 11)	7.83		"	10.0		78.3		70-130					
Vinyl acetate	11.2		"	10.0		112		70-130					
Vinyl bromide	8.77		"	10.0		87.7		70-130					
Vinyl Chloride	7.27		"	10.0		72.7		70-130					
Surrogate: SURR: p-Bromofluorobenzene	10.0		"	10.0		100		70-130					





Sample and Data Qualifiers Relating to This Work Order

QL-03	This LCS analyte recovered outside of acceptance limits. The LCS contains approximately 70 compounds, a limited number of which may be outside acceptance windows.
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-A	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>30% Difference for average Rf). This applies to detected analytes only.

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.

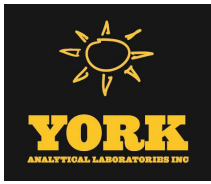
If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For 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.



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Field Chain-of-Custody Record - AIR

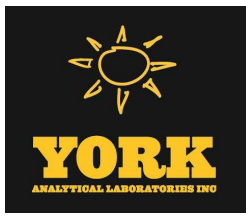
YORK Project No.
18K0273

Your Turn-Around Time
Page 1 of 2

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. signature binds you to YORK's Standard Terms & Conditions.

YOUR INFORMATION		Report To:		Invoice To:		YOUR Project Number		Turn-Around Time																																																																																																																									
Company: AESTI	Company:	Address: same.	Address:	Company:	Company:	37321-5TX	RUSH - Next Day	RUSH - Next Day																																																																																																																									
Address: 5 MARINE VIEW PLAZA, SUITE 401	Address:	Phone: same.	Phone:	Address: same.	Address:	YOUR Project Name	RUSH - Two Day	RUSH - Two Day																																																																																																																									
Phone: 201-876-9900	Phone:	Contact: same.	Contact:	Phone: same.	Phone:	27-10 41TH AVE.	RUSH - Three Day	RUSH - Three Day																																																																																																																									
Contact: SEANUS KELT	Contact:	E-mail: SKELT@SOLUTIONSINFORMATION.COM	E-mail:	Contact: same.	Contact:		RUSH - Four Day	RUSH - Four Day																																																																																																																									
E-mail: SKELT@SOLUTIONSINFORMATION.COM	E-mail:	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.		YOUR PO#:		YORK Reg. Comp.		Compared to the following Regulation(s): (please fill in)																																																																																																																									
Samples Collected by: (print your name above and sign below)		Air Matrix Codes		Samples From		Report / EDD Type (circle selections)		Standard Excel EDD																																																																																																																									
AI - Indoor Ambient Air		AO - Outdoor Amb. Air		New York		CT RCP		Standard Excel EDD																																																																																																																									
AO - Outdoor Amb. Air		AE - Vapor Extraction Well/Process Gas/Effluent		New Jersey		QA Report		EQUIS (Standard)																																																																																																																									
AE - Vapor Extraction Well/Process Gas/Effluent		AS - Soil Vapor/Sub-Slab		Connecticut		NY ASP A Package		NYSDEC EQUIS																																																																																																																									
AS - Soil Vapor/Sub-Slab				Pennsylvania		NY ASP B Package		NJDEP SRP HazSite																																																																																																																									
				Other:		Other:																																																																																																																											
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| | Comments: | | Detection Limits Required | | Sampling Media | | |-----------------------------------|--|--|--|------------------|--| | | | ≤ 1 ug/m ³ _____ NYSDEC V1 Limits _____ | | 6 Liter Canister | | | | | Routine Survey _____ Other _____ | | Tedlar Bag | | | Samples Relinquished by / Company | | Samples Relinquished by / Company | | Date/Time | | | REBECA - AESTI | | Schuyler / York | | 11/7/18 | | | Schuyler / York | | Schuyler / York | | Date/Time | | | Samples Relinquished by / Company | | Samples Received in LAB by | | Date/Time | | | | | Adam A. Schuck | | 11/8/18 09:45 | | | | | | | | | | | |



Technical Report

prepared for:

Atlantic Environmental Solutions, Inc.
5 Marine View Plaza, Suite 303
Hoboken NJ, 07030
Attention: Seamus Kelly

Report Date: 12/13/2018
Client Project ID: 37321- STX 27-10 49th Ave, LIC
York Project (SDG) No.: 18K1041

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE
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STRATFORD, CT 06615
(203) 325-1371



132-02 89th AVENUE
FAX (203) 357-0166

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Atlantic Environmental Solutions, Inc.
5 Marine View Plaza, Suite 303
Hoboken NJ, 07030
Attention: Seamus Kelly

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 November 28, 2018 and listed below. The project was identified as your project: **37321- STX 27-10 49th Ave, LIC**.

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>
18K1041-01	MW-1	Water	11/28/2018	11/28/2018
18K1041-02	MW-2	Water	11/28/2018	11/28/2018
18K1041-03	MW-3	Water	11/28/2018	11/28/2018
18K1041-04	MW-4	Water	11/27/2018	11/28/2018
18K1041-05	MW-4 DUP	Water	11/27/2018	11/28/2018
18K1041-06	MW-5	Water	11/28/2018	11/28/2018
18K1041-07	MW-6	Water	11/27/2018	11/28/2018
18K1041-08	MW-7	Water	11/27/2018	11/28/2018
18K1041-09	MW-8	Water	11/27/2018	11/28/2018
18K1041-10	MW-9	Water	11/27/2018	11/28/2018
18K1041-11	MW-10	Water	11/27/2018	11/28/2018
18K1041-12	Field Blank	Water	11/28/2018	11/28/2018
18K1041-13	Trip Blank	Water	11/28/2018	11/28/2018

General Notes for York Project (SDG) No.: 18K1041

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: 12/13/2018





Sample Information

Client Sample ID: MW-1

York Sample ID: 18K1041-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 28, 2018 10:01 am

11/28/2018

Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 06:37	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 06:37	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 06:37	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 06:37	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 06:37	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 06:37	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 06:37	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 06:37	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 06:37	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 06:37	LLJ
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 06:37	LLJ
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 06:37	LLJ
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 06:37	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 06:37	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 06:37	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 06:37	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 06:37	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 06:37	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 06:37	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 06:37	LLJ
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 06:37	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 06:37	LLJ



Sample Information

Client Sample ID: MW-1

York Sample ID: 18K1041-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 28, 2018 10:01 am

11/28/2018

Volatile Organics, NYSDEC Part 375 List

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
103-65-1	n-Propylbenzene	0.55		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 06:37	LLJ
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 06:37	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 06:37	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 06:37	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 06:37	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 06:37	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 06:37	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 06:37	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 06:37	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 06:37	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058	11/30/2018 12:00	12/01/2018 06:37	LLJ
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	110 %			69-130						
2037-26-5	Surrogate: SURR: Toluene-d8	97.5 %			81-117						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	102 %			79-122						

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/04/2018 15:46	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/04/2018 15:46	KH
83-32-9	Acenaphthene	4.66		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 15:59	OW
208-96-8	Acenaphthylene	0.0718		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 15:59	OW
120-12-7	Anthracene	0.964		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 15:59	OW
56-55-3	Benzo(a)anthracene	0.144		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 15:59	OW



Sample Information

Client Sample ID: MW-1

York Sample ID: 18K1041-01

York Project (SDG) No.

Client Project ID

Matrix

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18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 28, 2018 10:01 am

11/28/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	0.0923		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 15:59	OW
205-99-2	Benzo(b)fluoranthene	0.0615		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 15:59	OW
191-24-2	Benzo(g,h,i)perylene	0.0513		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 15:59	OW
207-08-9	Benzo(k)fluoranthene	0.0718		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 15:59	OW
218-01-9	Chrysene	0.144		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 15:59	OW
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 15:59	OW
132-64-9	Dibenzofuran	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/04/2018 15:46	KH
206-44-0	Fluoranthene	0.872		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 15:59	OW
86-73-7	Fluorene	2.49		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 15:59	OW
118-74-1	Hexachlorobenzene	ND		ug/L	0.0205	0.0205	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/04/2018 15:46	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 15:59	OW
91-20-3	Naphthalene	0.256		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 15:59	OW
87-86-5	Pentachlorophenol	ND		ug/L	0.256	0.256	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 15:59	OW
85-01-8	Phenanthrene	4.53		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 15:59	OW
108-95-2	Phenol	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/04/2018 15:46	KH
129-00-0	Pyrene	0.944		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 15:59	OW
Surrogate Recoveries		Result	Acceptance Range								
367-12-4	Surrogate: SURR: 2-Fluorophenol	41.6 %	19.7-63.1								
4165-62-2	Surrogate: SURR: Phenol-d5	22.4 %	10.1-41.7								
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	76.6 %	50.2-113								
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	74.3 %	39.9-105								
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	67.9 %	39.3-151								
1718-51-0	Surrogate: SURR: Terphenyl-d14	87.3 %	30.7-106								

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes: EXT-EM



Sample Information

Client Sample ID: MW-1

York Sample ID: 18K1041-01

<u>York Project (SDG) No.</u> 18K1041	<u>Client Project ID</u> 37321- STX 27-10 49th Ave, LIC	<u>Matrix</u> Water	<u>Collection Date/Time</u> November 28, 2018 10:01 am	<u>Date Received</u> 11/28/2018
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Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:05	CM
72-55-9	4,4'-DDE	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:05	CM
50-29-3	4,4'-DDT	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:05	CM
309-00-2	Aldrin	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:05	CM
319-84-6	alpha-BHC	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:05	CM
5103-71-9	alpha-Chlordane	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:05	CM
319-85-7	beta-BHC	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:05	CM
319-86-8	delta-BHC	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:05	CM
60-57-1	Dieldrin	ND		ug/L	0.00205	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:05	CM
959-98-8	Endosulfan I	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:05	CM
33213-65-9	Endosulfan II	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:05	CM
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:05	CM
72-20-8	Endrin	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:05	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:05	CM
76-44-8	Heptachlor	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:05	CM
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	34.4 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	59.0 %	30-150							

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:47	TJD
11104-28-2	Aroclor 1221	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:47	TJD
11141-16-5	Aroclor 1232	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:47	TJD
53469-21-9	Aroclor 1242	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:47	TJD



Sample Information

Client Sample ID: MW-1

York Sample ID: 18K1041-01

York Project (SDG) No.

Client Project ID

Matrix

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18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 28, 2018 10:01 am

11/28/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12672-29-6	Aroclor 1248	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:47	TJD
11097-69-1	Aroclor 1254	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:47	TJD
11096-82-5	Aroclor 1260	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:47	TJD
1336-36-3	* Total PCBs	ND		ug/L	0.0513	1	EPA 8082A Certifications:	11/29/2018 09:12	12/03/2018 20:47	TJD
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	80.7 %	30-120							
2051-24-3	Surrogate: Decachlorobiphenyl	59.2 %	30-120							

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 07:36	12/04/2018 06:07	TJD
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 07:36	12/04/2018 06:07	TJD
94-75-7	2,4-D	ND		ug/L	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 07:36	12/04/2018 06:07	TJD
Surrogate Recoveries		Result	Acceptance Range							
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (D	106 %	30-150							

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	0.483		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:13	KML
7440-39-3	Barium	0.317		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:13	KML
7440-70-2	Calcium	238		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:13	KML
7440-47-3	Chromium	0.00653		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:13	KML
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:13	KML
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:13	KML
7439-89-6	Iron	12.9		mg/L	0.278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:13	KML



Sample Information

Client Sample ID: MW-1

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18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 28, 2018 10:01 am

11/28/2018

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.0194		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:13	KML
7439-95-4	Magnesium	161		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:13	KML
7439-96-5	Manganese	2.84		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:13	KML
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:13	KML
7440-09-7	Potassium	73.5		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:13	KML
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:13	KML
7440-23-5	Sodium	1260		mg/L	5.56	10	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/04/2018 11:43	KML
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:13	KML
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:13	KML

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:18	KML
7440-39-3	Barium	0.895		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:18	KML
7440-70-2	Calcium	376		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:18	KML
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:18	KML
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:18	KML
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:18	KML
7439-89-6	Iron	75.7		mg/L	0.278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:18	KML
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:18	KML
7439-95-4	Magnesium	115		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:18	KML
7439-96-5	Manganese	1.29		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:18	KML
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:18	KML



Sample Information

Client Sample ID: MW-1

York Sample ID: 18K1041-01

York Project (SDG) No.

Client Project ID

Matrix

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18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 28, 2018 10:01 am

11/28/2018

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	Potassium	79.0		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:18	KML
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:18	KML
7440-23-5	Sodium	931		mg/L	0.556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:18	KML
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:18	KML
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:18	KML

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 12:22	BML
7440-38-2	Arsenic	3.61		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 12:22	BML
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 12:22	BML
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 12:22	BML
7782-49-2	Selenium	20.6		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 12:22	BML
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 12:22	BML

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:10	BML
7440-38-2	Arsenic	2.67		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:10	BML
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:10	BML
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:10	BML
7782-49-2	Selenium	32.1		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:10	BML
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:10	BML



Sample Information

Client Sample ID: MW-1

York Sample ID: 18K1041-01

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18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 28, 2018 10:01 am

11/28/2018

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 09:40	12/03/2018 10:09	SY

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002000	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/05/2018 09:42	12/05/2018 10:19	SY

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND	HT-02	mg/L	0.0100	1	EPA 7196A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 11:10	11/29/2018 11:38	TJM

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.0100	1	Calculation Certifications:	12/05/2018 11:38	12/05/2018 14:55	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	0.0261		mg/L	0.0100	1	SM 4500 CN C/E Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/04/2018 08:32	12/04/2018 17:04	JTV

Analyzed by: Con-Test Analytical Laboratory

PFAS in Water by EPA 537

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 10:01		
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 10:01		
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 10:01		



Sample Information

Client Sample ID: MW-1 **York Sample ID:** 18K1041-01
York Project (SDG) No.: 18K1041 **Client Project ID:** 37321- STX 27-10 49th Ave, LIC **Matrix:** Water **Collection Date/Time:** November 28, 2018 10:01 am **Date Received:** 11/28/2018

Analyzed by: Con-Test Analytical Laboratory

PFAS in Water by EPA 537

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 10:01		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 10:01		
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 10:01		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 10:01		
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 10:01		
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 10:01		
	NMeFOSAA	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 10:01		
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 10:01		
	NEtFOSAA	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 10:01		
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 10:01		
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 10:01		
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 10:01		
Surrogate Recoveries		Result	Acceptance Range							
	Surrogate: 13C-PFHxA	%	70-130							
	Surrogate: 13C-PFDA	%	70-130							
	Surrogate: d5-N-EtFOSAA	%	70-130							

Semi-Volatiles, 1,4-Dioxane by 8270-SIM (SUB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	See attached		ug/L	See attach	1	See attached Certifications:	11/28/2018 10:01		
Surrogate Recoveries		Result	Acceptance Range							
17647-74-4	Surrogate: 1,4-Dioxane-d8	%	70-130							



Sample Information

Client Sample ID: MW-2

York Sample ID: 18K1041-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 28, 2018 9:26 am

11/28/2018

Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:03	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:03	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:03	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:03	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:03	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:03	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:03	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:03	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:03	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:03	LLJ
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:03	LLJ
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:03	LLJ
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:03	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:03	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:03	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:03	LLJ
156-59-2	cis-1,2-Dichloroethylene	0.57		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:03	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:03	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:03	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:03	LLJ
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:03	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:03	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:03	LLJ



Sample Information

Client Sample ID: MW-2

York Sample ID: 18K1041-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 28, 2018 9:26 am

11/28/2018

Volatile Organics, NYSDEC Part 375 List

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
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:03	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:03	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:03	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:03	LLJ
127-18-4	Tetrachloroethylene	2.0		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:03	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:03	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:03	LLJ
79-01-6	Trichloroethylene	0.36	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:03	LLJ
75-01-4	Vinyl Chloride	0.85		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:03	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058	11/30/2018 12:00	12/01/2018 07:03	LLJ
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	110 %			69-130						
2037-26-5	Surrogate: SURR: Toluene-d8	97.1 %			81-117						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	102 %			79-122						

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/04/2018 16:36	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/04/2018 16:36	KH
83-32-9	Acenaphthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 16:31	OW
208-96-8	Acenaphthylene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 16:31	OW
120-12-7	Anthracene	0.0615		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 16:31	OW
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 16:31	OW
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 16:31	OW
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 16:31	OW



Sample Information

Client Sample ID: MW-2

York Sample ID: 18K1041-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 28, 2018 9:26 am

11/28/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 16:31	OW
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 16:31	OW
218-01-9	Chrysene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 16:31	OW
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 16:31	OW
132-64-9	Dibenzofuran	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/04/2018 16:36	KH
206-44-0	Fluoranthene	0.0615		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 16:31	OW
86-73-7	Fluorene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 16:31	OW
118-74-1	Hexachlorobenzene	ND		ug/L	0.0205	0.0205	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 16:31	OW
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 16:31	OW
91-20-3	Naphthalene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 16:31	OW
87-86-5	Pentachlorophenol	ND		ug/L	0.256	0.256	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 16:31	OW
85-01-8	Phenanthrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 16:31	OW
108-95-2	Phenol	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/04/2018 16:36	KH
129-00-0	Pyrene	0.133		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 16:31	OW
	Surrogate Recoveries	Result						Acceptance Range			
367-12-4	Surrogate: SURR: 2-Fluorophenol	42.4 %						19.7-63.1			
4165-62-2	Surrogate: SURR: Phenol-d5	23.0 %						10.1-41.7			
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	80.8 %						50.2-113			
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	80.0 %						39.9-105			
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	79.4 %						39.3-151			
1718-51-0	Surrogate: SURR: Terphenyl-d14	86.7 %						30.7-106			

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:20	CM
72-55-9	4,4'-DDE	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:20	CM



Sample Information

Client Sample ID: MW-2

York Sample ID: 18K1041-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 28, 2018 9:26 am

11/28/2018

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-29-3	4,4'-DDT	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:20	CM
309-00-2	Aldrin	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:20	CM
319-84-6	alpha-BHC	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:20	CM
5103-71-9	alpha-Chlordane	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:20	CM
319-85-7	beta-BHC	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:20	CM
319-86-8	delta-BHC	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:20	CM
60-57-1	Dieldrin	ND		ug/L	0.00205	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:20	CM
959-98-8	Endosulfan I	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:20	CM
33213-65-9	Endosulfan II	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:20	CM
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:20	CM
72-20-8	Endrin	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:20	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:20	CM
76-44-8	Heptachlor	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:20	CM
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	36.8 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	42.2 %	30-150							

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 21:01	TJD
11104-28-2	Aroclor 1221	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 21:01	TJD
11141-16-5	Aroclor 1232	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 21:01	TJD
53469-21-9	Aroclor 1242	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 21:01	TJD
12672-29-6	Aroclor 1248	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 21:01	TJD



Sample Information

Client Sample ID: MW-2

York Sample ID: 18K1041-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 28, 2018 9:26 am

11/28/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11097-69-1	Aroclor 1254	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 21:01	TJD
11096-82-5	Aroclor 1260	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 21:01	TJD
1336-36-3	* Total PCBs	ND		ug/L	0.0513	1	EPA 8082A Certifications:	11/29/2018 09:12	12/03/2018 21:01	TJD
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	53.5 %	30-120							
2051-24-3	Surrogate: Decachlorobiphenyl	51.7 %	30-120							

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 07:36	12/04/2018 06:19	TJD
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 07:36	12/04/2018 06:19	TJD
94-75-7	2,4-D	ND		ug/L	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 07:36	12/04/2018 06:19	TJD
Surrogate Recoveries		Result	Acceptance Range							
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (D	85.2 %	30-150							

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	0.105		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:16	KML
7440-39-3	Barium	ND		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:16	KML
7440-70-2	Calcium	108		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:16	KML
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:16	KML
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:16	KML
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:16	KML
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:16	KML
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:16	KML



Sample Information

Client Sample ID: MW-2

York Sample ID: 18K1041-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 28, 2018 9:26 am

11/28/2018

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	Magnesium	272		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:16	KML
7439-96-5	Manganese	0.0168		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:16	KML
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:16	KML
7440-09-7	Potassium	101		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:16	KML
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:16	KML
7440-23-5	Sodium	1140		mg/L	5.56	10	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/04/2018 11:46	KML
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:16	KML
7440-66-6	Zinc	0.0500		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:16	KML

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	0.0940		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:20	KML
7440-39-3	Barium	0.323		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:20	KML
7440-70-2	Calcium	665		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:20	KML
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:20	KML
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:20	KML
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:20	KML
7439-89-6	Iron	3.28		mg/L	0.278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:20	KML
7439-92-1	Lead	0.00562		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:20	KML
7439-95-4	Magnesium	157		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:20	KML
7439-96-5	Manganese	2.03		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:20	KML
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:20	KML
7440-09-7	Potassium	52.7		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:20	KML



Sample Information

Client Sample ID: MW-2

York Sample ID: 18K1041-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 28, 2018 9:26 am

11/28/2018

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:20	KML
7440-23-5	Sodium	835		mg/L	0.556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:20	KML
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:20	KML
7440-66-6	Zinc	0.0492		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:20	KML

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 12:27	BML
7440-38-2	Arsenic	1.12		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 12:27	BML
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 12:27	BML
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 12:27	BML
7782-49-2	Selenium	37.1		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 12:27	BML
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 12:27	BML

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:15	BML
7440-38-2	Arsenic	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:15	BML
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:15	BML
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:15	BML
7782-49-2	Selenium	43.1		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:15	BML
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:15	BML

Mercury by 7473

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: MW-2

York Sample ID: 18K1041-02

<u>York Project (SDG) No.</u> 18K1041	<u>Client Project ID</u> 37321- STX 27-10 49th Ave, LIC	<u>Matrix</u> Water	<u>Collection Date/Time</u> November 28, 2018 9:26 am	<u>Date Received</u> 11/28/2018
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Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 09:40	12/03/2018 10:20	SY

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002000	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/05/2018 09:42	12/05/2018 10:29	SY

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND	HT-02	mg/L	0.0100	1	EPA 7196A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 11:10	11/29/2018 11:38	TJM

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.0100	1	Calculation Certifications:	12/05/2018 11:38	12/05/2018 14:55	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	1	SM 4500 CN C/E Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/04/2018 08:32	12/04/2018 17:04	JTV

Analyzed by: Con-Test Analytical Laboratory

PFAS in Water by EPA 537

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 09:26		
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 09:26		
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 09:26		
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 09:26		



Sample Information

Client Sample ID: MW-2

York Sample ID: 18K1041-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 28, 2018 9:26 am

11/28/2018

Analyzed by: Con-Test Analytical Laboratory

PFAS in Water by EPA 537

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 09:26		
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 09:26		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 09:26		
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 09:26		
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 09:26		
	NMeFOSAA	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 09:26		
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 09:26		
	NEtFOSAA	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 09:26		
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 09:26		
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 09:26		
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 09:26		
	Surrogate Recoveries	Result					Acceptance Range			
	Surrogate: 13C-PFHxA	%					70-130			
	Surrogate: 13C-PFDA	%					70-130			
	Surrogate: d5-N-EtFOSAA	%					70-130			

Semi-Volatiles, 1,4-Dioxane by 8270-SIM (SUB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	See attached		ug/L	See attach	1	See attached Certifications:	11/28/2018 09:26		
	Surrogate Recoveries	Result					Acceptance Range			
17647-74-4	Surrogate: 1,4-Dioxane-d8	%					70-130			



Sample Information

Client Sample ID: MW-3

York Sample ID: 18K1041-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 28, 2018 7:57 am

11/28/2018

Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:30	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:30	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:30	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:30	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:30	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:30	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:30	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:30	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:30	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:30	LLJ
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:30	LLJ
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:30	LLJ
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:30	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:30	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:30	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:30	LLJ
156-59-2	cis-1,2-Dichloroethylene	0.44	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:30	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:30	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	0.90		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:30	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:30	LLJ
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:30	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:30	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:30	LLJ



Sample Information

Client Sample ID: MW-3

York Sample ID: 18K1041-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 28, 2018 7:57 am

11/28/2018

Volatile Organics, NYSDEC Part 375 List

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
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:30	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:30	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:30	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:30	LLJ
127-18-4	Tetrachloroethylene	0.62		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:30	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:30	LLJ
156-60-5	trans-1,2-Dichloroethylene	0.43	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:30	LLJ
79-01-6	Trichloroethylene	1.1		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:30	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:30	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058	11/30/2018 12:00	12/01/2018 07:30	LLJ
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	113 %			69-130						
2037-26-5	Surrogate: SURR: Toluene-d8	96.8 %			81-117						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	103 %			79-122						

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/04/2018 17:25	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/04/2018 17:25	KH
83-32-9	Acenaphthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 17:03	OW
208-96-8	Acenaphthylene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 17:03	OW
120-12-7	Anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 17:03	OW
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 17:03	OW
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 17:03	OW
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 17:03	OW



Sample Information

Client Sample ID: MW-3

York Sample ID: 18K1041-03

York Project (SDG) No.

Client Project ID

Matrix

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18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 28, 2018 7:57 am

11/28/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 17:03	OW
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 17:03	OW
218-01-9	Chrysene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 17:03	OW
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 17:03	OW
132-64-9	Dibenzofuran	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/04/2018 17:25	KH
206-44-0	Fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 17:03	OW
86-73-7	Fluorene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 17:03	OW
118-74-1	Hexachlorobenzene	ND		ug/L	0.0205	0.0205	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 17:03	OW
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 17:03	OW
91-20-3	Naphthalene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 17:03	OW
87-86-5	Pentachlorophenol	ND		ug/L	0.256	0.256	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 17:03	OW
85-01-8	Phenanthrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 17:03	OW
108-95-2	Phenol	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/04/2018 17:25	KH
129-00-0	Pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 17:03	OW

Surrogate Recoveries

Result

Acceptance Range

367-12-4	Surrogate: SURR: 2-Fluorophenol	28.6 %	19.7-63.1
4165-62-2	Surrogate: SURR: Phenol-d5	20.7 %	10.1-41.7
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	69.3 %	50.2-113
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	68.6 %	39.9-105
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	61.8 %	39.3-151
1718-51-0	Surrogate: SURR: Terphenyl-d14	77.6 %	30.7-106

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:36	CM
72-55-9	4,4'-DDE	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:36	CM



Sample Information

Client Sample ID: MW-3

York Sample ID: 18K1041-03

York Project (SDG) No.

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18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 28, 2018 7:57 am

11/28/2018

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-29-3	4,4'-DDT	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:36	CM
309-00-2	Aldrin	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:36	CM
319-84-6	alpha-BHC	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:36	CM
5103-71-9	alpha-Chlordane	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:36	CM
319-85-7	beta-BHC	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:36	CM
319-86-8	delta-BHC	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:36	CM
60-57-1	Dieldrin	ND		ug/L	0.00205	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:36	CM
959-98-8	Endosulfan I	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:36	CM
33213-65-9	Endosulfan II	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:36	CM
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:36	CM
72-20-8	Endrin	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:36	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:36	CM
76-44-8	Heptachlor	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:36	CM
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	29.5 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	41.1 %	30-150							

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 21:14	TJD
11104-28-2	Aroclor 1221	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 21:14	TJD
11141-16-5	Aroclor 1232	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 21:14	TJD
53469-21-9	Aroclor 1242	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 21:14	TJD
12672-29-6	Aroclor 1248	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 21:14	TJD



Sample Information

Client Sample ID: MW-3

York Sample ID: 18K1041-03

York Project (SDG) No.

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Matrix

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18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 28, 2018 7:57 am

11/28/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11097-69-1	Aroclor 1254	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 21:14	TJD
11096-82-5	Aroclor 1260	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 21:14	TJD
1336-36-3	* Total PCBs	ND		ug/L	0.0513	1	EPA 8082A Certifications:	11/29/2018 09:12	12/03/2018 21:14	TJD
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	64.9 %	30-120							
2051-24-3	Surrogate: Decachlorobiphenyl	47.8 %	30-120							

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 07:36	12/04/2018 06:32	TJD
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 07:36	12/04/2018 06:32	TJD
94-75-7	2,4-D	ND		ug/L	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 07:36	12/04/2018 06:32	TJD
Surrogate Recoveries		Result	Acceptance Range							
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (D	79.6 %	30-150							

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	0.0863		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:18	KML
7440-39-3	Barium	ND		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:18	KML
7440-70-2	Calcium	115		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:18	KML
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:18	KML
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:18	KML
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:18	KML
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:18	KML
7439-92-1	Lead	0.0111		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:18	KML



Sample Information

Client Sample ID: MW-3

York Sample ID: 18K1041-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 28, 2018 7:57 am

11/28/2018

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	Magnesium	278		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:18	KML
7439-96-5	Manganese	0.0247		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:18	KML
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:18	KML
7440-09-7	Potassium	104		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:18	KML
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:18	KML
7440-23-5	Sodium	3890		mg/L	5.56	10	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/04/2018 11:48	KML
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:18	KML
7440-66-6	Zinc	0.0487		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:18	KML

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	0.118		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:28	KML
7440-39-3	Barium	0.112		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:28	KML
7440-70-2	Calcium	702		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:28	KML
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:28	KML
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:28	KML
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:28	KML
7439-89-6	Iron	2.29		mg/L	0.278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:28	KML
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:28	KML
7439-95-4	Magnesium	251		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:28	KML
7439-96-5	Manganese	0.929		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:28	KML
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:28	KML
7440-09-7	Potassium	155		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:28	KML



Sample Information

Client Sample ID: MW-3

York Sample ID: 18K1041-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 28, 2018 7:57 am

11/28/2018

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:28	KML
7440-23-5	Sodium	5230		mg/L	5.56	10	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/05/2018 12:43	KML
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:28	KML
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:28	KML

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	1.81		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 12:32	BML
7440-38-2	Arsenic	4.55		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 12:32	BML
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 12:32	BML
7440-43-9	Cadmium	1.46		ug/L	0.556	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 12:32	BML
7782-49-2	Selenium	50.3		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 12:32	BML
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 12:32	BML

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes:

Sample Notes:

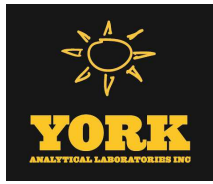
Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	1.34		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:20	BML
7440-38-2	Arsenic	2.83		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:20	BML
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:20	BML
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:20	BML
7782-49-2	Selenium	77.7		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:20	BML
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:20	BML

Mercury by 7473

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: MW-3

York Sample ID: 18K1041-03

York Project (SDG) No. 18K1041 Client Project ID 37321- STX 27-10 49th Ave, LIC Matrix Water Collection Date/Time November 28, 2018 7:57 am Date Received 11/28/2018

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 09:40	12/03/2018 10:31	SY

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002000	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/05/2018 09:42	12/05/2018 10:40	SY

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND	HT-02	mg/L	0.0100	1	EPA 7196A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 11:10	11/29/2018 11:38	TJM

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.0100	1	Calculation Certifications:	12/05/2018 11:38	12/05/2018 14:55	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	1	SM 4500 CN C/E Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/04/2018 08:32	12/04/2018 17:04	JTV

Analyzed by: Con-Test Analytical Laboratory

PFAS in Water by EPA 537

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 07:57		
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 07:57		
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 07:57		
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 07:57		



Sample Information

Client Sample ID: MW-3

York Sample ID: 18K1041-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 28, 2018 7:57 am

11/28/2018

Analyzed by: Con-Test Analytical Laboratory

PFAS in Water by EPA 537

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 07:57		
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 07:57		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 07:57		
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 07:57		
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 07:57		
	NMeFOSAA	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 07:57		
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 07:57		
	NEtFOSAA	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 07:57		
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 07:57		
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 07:57		
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 07:57		
	Surrogate Recoveries	Result					Acceptance Range			
	Surrogate: 13C-PFHxA	%					70-130			
	Surrogate: 13C-PFDA	%					70-130			
	Surrogate: d5-N-EtFOSAA	%					70-130			

Semi-Volatiles, 1,4-Dioxane by 8270-SIM (SUB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	See attached		ug/L	See attach	1	See attached Certifications:	11/28/2018 07:57		
	Surrogate Recoveries	Result					Acceptance Range			
17647-74-4	Surrogate: 1,4-Dioxane-d8	%					70-130			



Sample Information

Client Sample ID: MW-4

York Sample ID: 18K1041-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 27, 2018 2:30 pm

11/28/2018

Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:56	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:56	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:56	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:56	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:56	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:56	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:56	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:56	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:56	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:56	LLJ
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:56	LLJ
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:56	LLJ
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:56	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:56	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:56	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:56	LLJ
156-59-2	cis-1,2-Dichloroethylene	0.22	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:56	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:56	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	2.8		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:56	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:56	LLJ
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:56	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:56	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:56	LLJ



Sample Information

Client Sample ID: MW-4

York Sample ID: 18K1041-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 27, 2018 2:30 pm

11/28/2018

Volatile Organics, NYSDEC Part 375 List

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
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:56	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:56	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:56	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:56	LLJ
127-18-4	Tetrachloroethylene	0.68		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:56	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:56	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:56	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:56	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 07:56	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058	11/30/2018 12:00	12/01/2018 07:56	LLJ
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	112 %	69-130								
2037-26-5	Surrogate: SURR: Toluene-d8	97.3 %	81-117								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	103 %	79-122								

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/04/2018 18:15	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/04/2018 18:15	KH
83-32-9	Acenaphthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 17:34	OW
208-96-8	Acenaphthylene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 17:34	OW
120-12-7	Anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 17:34	OW
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 17:34	OW
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 17:34	OW
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 17:34	OW



Sample Information

Client Sample ID: MW-4

York Sample ID: 18K1041-04

York Project (SDG) No.

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Matrix

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Water

November 27, 2018 2:30 pm

11/28/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 17:34	OW
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 17:34	OW
218-01-9	Chrysene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 17:34	OW
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 17:34	OW
132-64-9	Dibenzofuran	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/04/2018 18:15	KH
206-44-0	Fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 17:34	OW
86-73-7	Fluorene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 17:34	OW
118-74-1	Hexachlorobenzene	ND		ug/L	0.0205	0.0205	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 17:34	OW
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 17:34	OW
91-20-3	Naphthalene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 17:34	OW
87-86-5	Pentachlorophenol	ND		ug/L	0.256	0.256	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 17:34	OW
85-01-8	Phenanthrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 17:34	OW
108-95-2	Phenol	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/04/2018 18:15	KH
129-00-0	Pyrene	0.0513		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 17:34	OW
Surrogate Recoveries		Result	Acceptance Range								
367-12-4	Surrogate: SURR: 2-Fluorophenol	31.7 %	19.7-63.1								
4165-62-2	Surrogate: SURR: Phenol-d5	17.8 %	10.1-41.7								
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	61.7 %	50.2-113								
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	55.2 %	39.9-105								
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	56.9 %	39.3-151								
1718-51-0	Surrogate: SURR: Terphenyl-d14	76.2 %	30.7-106								

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:51	CM
72-55-9	4,4'-DDE	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:51	CM



Sample Information

Client Sample ID: MW-4

York Sample ID: 18K1041-04

York Project (SDG) No.

Client Project ID

Matrix

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18K1041

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Water

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11/28/2018

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-29-3	4,4'-DDT	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:51	CM
309-00-2	Aldrin	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:51	CM
319-84-6	alpha-BHC	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:51	CM
5103-71-9	alpha-Chlordane	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:51	CM
319-85-7	beta-BHC	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:51	CM
319-86-8	delta-BHC	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:51	CM
60-57-1	Dieldrin	ND		ug/L	0.00205	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:51	CM
959-98-8	Endosulfan I	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:51	CM
33213-65-9	Endosulfan II	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:51	CM
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:51	CM
72-20-8	Endrin	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:51	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:51	CM
76-44-8	Heptachlor	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 09:51	CM
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	37.4 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	53.5 %	30-150							

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 21:28	TJD
11104-28-2	Aroclor 1221	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 21:28	TJD
11141-16-5	Aroclor 1232	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 21:28	TJD
53469-21-9	Aroclor 1242	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 21:28	TJD
12672-29-6	Aroclor 1248	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 21:28	TJD



Sample Information

Client Sample ID: MW-4

York Sample ID: 18K1041-04

York Project (SDG) No.

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Water

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Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11097-69-1	Aroclor 1254	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 21:28	TJD
11096-82-5	Aroclor 1260	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 21:28	TJD
1336-36-3	* Total PCBs	ND		ug/L	0.0513	1	EPA 8082A Certifications:	11/29/2018 09:12	12/03/2018 21:28	TJD
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	83.7 %	30-120							
2051-24-3	Surrogate: Decachlorobiphenyl	63.2 %	30-120							

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 07:36	12/04/2018 06:45	TJD
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 07:36	12/04/2018 06:45	TJD
94-75-7	2,4-D	ND		ug/L	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 07:36	12/04/2018 06:45	TJD
Surrogate Recoveries		Result	Acceptance Range							
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (L)	98.0 %	30-150							

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	2.29		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:21	KML
7440-39-3	Barium	0.208		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:21	KML
7440-70-2	Calcium	257		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:21	KML
7440-47-3	Chromium	0.0204		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:21	KML
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:21	KML
7440-50-8	Copper	0.143		mg/L	0.0222	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:21	KML
7439-89-6	Iron	4.92		mg/L	0.278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:21	KML



Sample Information

Client Sample ID: MW-4

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November 27, 2018 2:30 pm

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Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.728		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:21	KML
7439-95-4	Magnesium	404		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:21	KML
7439-96-5	Manganese	1.30		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:21	KML
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:21	KML
7440-09-7	Potassium	151		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:21	KML
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:21	KML
7440-23-5	Sodium	1380		mg/L	5.56	10	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/04/2018 11:51	KML
7440-62-2	Vanadium	0.0146		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:21	KML
7440-66-6	Zinc	0.244		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:21	KML

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	0.103		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:31	KML
7440-39-3	Barium	0.506		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:31	KML
7440-70-2	Calcium	474		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:31	KML
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:31	KML
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:31	KML
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:31	KML
7439-89-6	Iron	15.2		mg/L	0.278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:31	KML
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:31	KML
7439-95-4	Magnesium	108		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:31	KML
7439-96-5	Manganese	0.779		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:31	KML
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:31	KML



Sample Information

Client Sample ID: MW-4

York Sample ID: 18K1041-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 27, 2018 2:30 pm

11/28/2018

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	Potassium	50.8		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:31	KML
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:31	KML
7440-23-5	Sodium	929		mg/L	0.556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:31	KML
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:31	KML
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:31	KML

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 12:37	BML
7440-38-2	Arsenic	1.12		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 12:37	BML
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 12:37	BML
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 12:37	BML
7782-49-2	Selenium	28.8		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 12:37	BML
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 12:37	BML

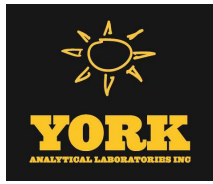
Metals, Target Analyte, ICPMS Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:34	BML
7440-38-2	Arsenic	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:34	BML
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:34	BML
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:34	BML
7782-49-2	Selenium	37.6		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:34	BML
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:34	BML



Sample Information

Client Sample ID: MW-4

York Sample ID: 18K1041-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 27, 2018 2:30 pm

11/28/2018

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 09:40	12/03/2018 10:41	SY

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002000	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/05/2018 09:42	12/05/2018 10:51	SY

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND	HT-02	mg/L	0.0100	1	EPA 7196A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 11:10	11/29/2018 11:38	TJM

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	0.0204		mg/L	0.0100	1	Calculation Certifications:	12/05/2018 11:38	12/05/2018 14:55	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	1	SM 4500 CN C/E Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/04/2018 08:32	12/04/2018 17:04	JTV

Analyzed by: Con-Test Analytical Laboratory

PFAS in Water by EPA 537

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 14:30		
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 14:30		
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 14:30		



Sample Information

Client Sample ID: MW-4

York Sample ID: 18K1041-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 27, 2018 2:30 pm

11/28/2018

Analyzed by: Con-Test Analytical Laboratory

PFAS in Water by EPA 537

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 14:30		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 14:30		
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 14:30		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 14:30		
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 14:30		
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 14:30		
	NMeFOSAA	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 14:30		
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 14:30		
	NEtFOSAA	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 14:30		
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 14:30		
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 14:30		
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 14:30		

Surrogate Recoveries

Result

Acceptance Range

Surrogate: 13C-PFHxA

%

70-130

Surrogate: 13C-PFDA

%

70-130

Surrogate: d5-N-EtFOSAA

%

70-130

Semi-Volatiles, 1,4-Dioxane by 8270-SIM (SUB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	See attached		ug/L	See attach	1	See attached Certifications:	11/27/2018 14:30		

Surrogate Recoveries

Result

Acceptance Range

17647-74-4 Surrogate: 1,4-Dioxane-d8

%

70-130



Sample Information

Client Sample ID: MW-4 DUP

York Sample ID: 18K1041-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 27, 2018 2:30 pm

11/28/2018

Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:23	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:23	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:23	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:23	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:23	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:23	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:23	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:23	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:23	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:23	LLJ
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:23	LLJ
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:23	LLJ
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:23	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:23	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:23	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:23	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:23	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:23	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	2.6		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:23	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:23	LLJ
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:23	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:23	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:23	LLJ



Sample Information

Client Sample ID: MW-4 DUP

York Sample ID: 18K1041-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 27, 2018 2:30 pm

11/28/2018

Volatile Organics, NYSDEC Part 375 List

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
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:23	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:23	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:23	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:23	LLJ
127-18-4	Tetrachloroethylene	0.64		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:23	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:23	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:23	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:23	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:23	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058	11/30/2018 12:00	12/01/2018 08:23	LLJ
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	112 %	69-130								
2037-26-5	Surrogate: SURR: Toluene-d8	97.8 %	81-117								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	104 %	79-122								

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/04/2018 19:04	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/04/2018 19:04	KH
83-32-9	Acenaphthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 18:05	OW
208-96-8	Acenaphthylene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 18:05	OW
120-12-7	Anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 18:05	OW
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 18:05	OW
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 18:05	OW
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 18:05	OW



Sample Information

Client Sample ID: MW-4 DUP

York Sample ID: 18K1041-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 27, 2018 2:30 pm

11/28/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 18:05	OW
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 18:05	OW
218-01-9	Chrysene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 18:05	OW
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 18:05	OW
132-64-9	Dibenzofuran	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	11/29/2018 09:03	12/04/2018 19:04	KH
206-44-0	Fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 18:05	OW
86-73-7	Fluorene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 18:05	OW
118-74-1	Hexachlorobenzene	ND		ug/L	0.0205	0.0205	1	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 18:05	OW
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 18:05	OW
91-20-3	Naphthalene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 18:05	OW
87-86-5	Pentachlorophenol	ND		ug/L	0.256	0.256	1	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 18:05	OW
85-01-8	Phenanthrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 18:05	OW
108-95-2	Phenol	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	11/29/2018 09:03	12/04/2018 19:04	KH
129-00-0	Pyrene	0.0615		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 18:05	OW
Surrogate Recoveries		Result	Acceptance Range								
367-12-4	Surrogate: SURR: 2-Fluorophenol	31.9 %	19.7-63.1								
4165-62-2	Surrogate: SURR: Phenol-d5	18.7 %	10.1-41.7								
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	67.6 %	50.2-113								
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	68.8 %	39.9-105								
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	64.4 %	39.3-151								
1718-51-0	Surrogate: SURR: Terphenyl-d14	94.6 %	30.7-106								

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 10:06	CM
72-55-9	4,4'-DDE	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 10:06	CM



Sample Information

Client Sample ID: MW-4 DUP

York Sample ID: 18K1041-05

York Project (SDG) No.

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Matrix

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11/28/2018

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-29-3	4,4'-DDT	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 10:06	CM
309-00-2	Aldrin	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 10:06	CM
319-84-6	alpha-BHC	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 10:06	CM
5103-71-9	alpha-Chlordane	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 10:06	CM
319-85-7	beta-BHC	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 10:06	CM
319-86-8	delta-BHC	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 10:06	CM
60-57-1	Dieldrin	ND		ug/L	0.00205	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 10:06	CM
959-98-8	Endosulfan I	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 10:06	CM
33213-65-9	Endosulfan II	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 10:06	CM
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 10:06	CM
72-20-8	Endrin	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 10:06	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 10:06	CM
76-44-8	Heptachlor	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 10:06	CM
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	39.1 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	52.5 %	30-150							

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 21:41	TJD
11104-28-2	Aroclor 1221	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 21:41	TJD
11141-16-5	Aroclor 1232	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 21:41	TJD
53469-21-9	Aroclor 1242	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 21:41	TJD
12672-29-6	Aroclor 1248	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 21:41	TJD



Sample Information

Client Sample ID: MW-4 DUP

York Sample ID: 18K1041-05

York Project (SDG) No.

Client Project ID

Matrix

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11/28/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11097-69-1	Aroclor 1254	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 21:41	TJD
11096-82-5	Aroclor 1260	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 21:41	TJD
1336-36-3	* Total PCBs	ND		ug/L	0.0513	1	EPA 8082A Certifications:	11/29/2018 09:12	12/03/2018 21:41	TJD
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	77.7 %	30-120							
2051-24-3	Surrogate: Decachlorobiphenyl	66.2 %	30-120							

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 07:36	12/04/2018 06:58	TJD
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 07:36	12/04/2018 06:58	TJD
94-75-7	2,4-D	ND		ug/L	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 07:36	12/04/2018 06:58	TJD
Surrogate Recoveries		Result	Acceptance Range							
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (L)	90.4 %	30-150							

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	0.993		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:24	KML
7440-39-3	Barium	0.299		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:24	KML
7440-70-2	Calcium	490		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:24	KML
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:24	KML
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:24	KML
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:24	KML
7439-89-6	Iron	2.56		mg/L	0.278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:24	KML
7439-92-1	Lead	0.0140		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:24	KML



Sample Information

Client Sample ID: MW-4 DUP

York Sample ID: 18K1041-05

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37321- STX 27-10 49th Ave, LIC

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11/28/2018

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	Magnesium	44.2		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:24	KML
7439-96-5	Manganese	0.963		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:24	KML
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:24	KML
7440-09-7	Potassium	39.5		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:24	KML
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:24	KML
7440-23-5	Sodium	1210		mg/L	5.56	10	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/04/2018 11:53	KML
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:24	KML
7440-66-6	Zinc	0.0300		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:24	KML

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	0.0594		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:33	KML
7440-39-3	Barium	0.505		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:33	KML
7440-70-2	Calcium	472		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:33	KML
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:33	KML
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:33	KML
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:33	KML
7439-89-6	Iron	15.5		mg/L	0.278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:33	KML
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:33	KML
7439-95-4	Magnesium	107		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:33	KML
7439-96-5	Manganese	0.797		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:33	KML
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:33	KML
7440-09-7	Potassium	50.2		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:33	KML



Sample Information

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37321- STX 27-10 49th Ave, LIC

Water

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Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:33	KML
7440-23-5	Sodium	930		mg/L	0.556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:33	KML
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:33	KML
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:33	KML

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 12:42	BML
7440-38-2	Arsenic	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 12:42	BML
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 12:42	BML
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 12:42	BML
7782-49-2	Selenium	29.0		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 12:42	BML
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 12:42	BML

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:39	BML
7440-38-2	Arsenic	1.26		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:39	BML
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:39	BML
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:39	BML
7782-49-2	Selenium	26.0		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:39	BML
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:39	BML

Mercury by 7473

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: MW-4 DUP

York Sample ID: 18K1041-05

York Project (SDG) No. 18K1041 Client Project ID 37321- STX 27-10 49th Ave, LIC Matrix Water Collection Date/Time November 27, 2018 2:30 pm Date Received 11/28/2018

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 09:40	12/03/2018 10:52	SY

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002000	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/05/2018 09:42	12/05/2018 11:01	SY

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND	HT-02	mg/L	0.0100	1	EPA 7196A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 11:10	11/29/2018 11:38	TJM

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.0100	1	Calculation Certifications:	12/05/2018 11:38	12/05/2018 14:55	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	1	SM 4500 CN C/E Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/04/2018 08:32	12/04/2018 17:04	JTV

Analyzed by: Con-Test Analytical Laboratory

PFAS in Water by EPA 537

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 14:30		
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 14:30		
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 14:30		
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 14:30		



Sample Information

Client Sample ID: MW-4 DUP

York Sample ID: 18K1041-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 27, 2018 2:30 pm

11/28/2018

Analyzed by: Con-Test Analytical Laboratory

PFAS in Water by EPA 537

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 14:30		
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 14:30		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 14:30		
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 14:30		
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 14:30		
	NMeFOSAA	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 14:30		
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 14:30		
	NEtFOSAA	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 14:30		
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 14:30		
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 14:30		
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 14:30		
	Surrogate Recoveries	Result					Acceptance Range			
	Surrogate: 13C-PFHxA	%					70-130			
	Surrogate: 13C-PFDA	%					70-130			
	Surrogate: d5-N-EtFOSAA	%					70-130			

Semi-Volatiles, 1,4-Dioxane by 8270-SIM (SUB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	See attached		ug/L	See attach	1	See attached Certifications:	11/27/2018 14:30		
	Surrogate Recoveries	Result					Acceptance Range			
17647-74-4	Surrogate: 1,4-Dioxane-d8	%					70-130			



Sample Information

Client Sample ID: MW-5

York Sample ID: 18K1041-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 28, 2018 7:28 am

11/28/2018

Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:49	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:49	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:49	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:49	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:49	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:49	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:49	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:49	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:49	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:49	LLJ
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:49	LLJ
67-64-1	Acetone	5.9		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:49	LLJ
71-43-2	Benzene	0.37	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:49	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:49	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:49	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:49	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:49	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:49	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:49	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:49	LLJ
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:49	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:49	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:49	LLJ



Sample Information

Client Sample ID: MW-5

York Sample ID: 18K1041-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 28, 2018 7:28 am

11/28/2018

Volatile Organics, NYSDEC Part 375 List

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
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:49	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:49	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:49	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:49	LLJ
127-18-4	Tetrachloroethylene	3.3		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:49	LLJ
108-88-3	Toluene	0.21	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:49	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:49	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:49	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 08:49	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058	11/30/2018 12:00	12/01/2018 08:49	LLJ
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	112 %			69-130						
2037-26-5	Surrogate: SURR: Toluene-d8	97.9 %			81-117						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	105 %			79-122						

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/04/2018 19:53	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/04/2018 19:53	KH
83-32-9	Acenaphthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 18:37	OW
208-96-8	Acenaphthylene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 18:37	OW
120-12-7	Anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 18:37	OW
56-55-3	Benzo(a)anthracene	0.0615		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 18:37	OW
50-32-8	Benzo(a)pyrene	0.0615		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 18:37	OW



Sample Information

Client Sample ID: MW-5

York Sample ID: 18K1041-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 28, 2018 7:28 am

11/28/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
205-99-2	Benzo(b)fluoranthene	0.0615		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 18:37	OW
191-24-2	Benzo(g,h,i)perylene	0.0513		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 18:37	OW
207-08-9	Benzo(k)fluoranthene	0.0615		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 18:37	OW
218-01-9	Chrysene	0.0821		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 18:37	OW
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 18:37	OW
132-64-9	Dibenzofuran	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/04/2018 19:53	KH
206-44-0	Fluoranthene	0.164		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 18:37	OW
86-73-7	Fluorene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 18:37	OW
118-74-1	Hexachlorobenzene	ND		ug/L	0.0205	0.0205	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 18:37	OW
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 18:37	OW
91-20-3	Naphthalene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 18:37	OW
87-86-5	Pentachlorophenol	ND		ug/L	0.256	0.256	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 18:37	OW
85-01-8	Phenanthrene	0.123		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 18:37	OW
108-95-2	Phenol	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/04/2018 19:53	KH
129-00-0	Pyrene	0.154		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 18:37	OW

Surrogate Recoveries

Result

Acceptance Range

367-12-4	Surrogate: SURR: 2-Fluorophenol	40.4 %	19.7-63.1
4165-62-2	Surrogate: SURR: Phenol-d5	19.9 %	10.1-41.7
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	73.0 %	50.2-113
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	67.8 %	39.9-105
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	70.3 %	39.3-151
1718-51-0	Surrogate: SURR: Terphenyl-d14	87.2 %	30.7-106

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

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: MW-5

York Sample ID: 18K1041-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 28, 2018 7:28 am

11/28/2018

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 10:21	CM
72-55-9	4,4'-DDE	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 10:21	CM
50-29-3	4,4'-DDT	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 10:21	CM
309-00-2	Aldrin	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 10:21	CM
319-84-6	alpha-BHC	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 10:21	CM
5103-71-9	alpha-Chlordane	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 10:21	CM
319-85-7	beta-BHC	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 10:21	CM
319-86-8	delta-BHC	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 10:21	CM
60-57-1	Dieldrin	ND		ug/L	0.00205	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 10:21	CM
959-98-8	Endosulfan I	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 10:21	CM
33213-65-9	Endosulfan II	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 10:21	CM
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 10:21	CM
72-20-8	Endrin	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 10:21	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 10:21	CM
76-44-8	Heptachlor	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/02/2018 10:21	CM
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	44.8 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	68.5 %	30-150							

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 21:55	TJD
11104-28-2	Aroclor 1221	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 21:55	TJD
11141-16-5	Aroclor 1232	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 21:55	TJD



Sample Information

Client Sample ID: MW-5

York Sample ID: 18K1041-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 28, 2018 7:28 am

11/28/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53469-21-9	Aroclor 1242	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 21:55	TJD
12672-29-6	Aroclor 1248	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 21:55	TJD
11097-69-1	Aroclor 1254	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 21:55	TJD
11096-82-5	Aroclor 1260	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 21:55	TJD
1336-36-3	* Total PCBs	ND		ug/L	0.0513	1	EPA 8082A Certifications:	11/29/2018 09:12	12/03/2018 21:55	TJD
Surrogate Recoveries		Result			Acceptance Range					
877-09-8	Surrogate: Tetrachloro-m-xylene	82.2 %			30-120					
2051-24-3	Surrogate: Decachlorobiphenyl	67.2 %			30-120					

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 07:36	12/04/2018 07:11	TJD
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 07:36	12/04/2018 07:11	TJD
94-75-7	2,4-D	ND		ug/L	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 07:36	12/04/2018 07:11	TJD
Surrogate Recoveries		Result			Acceptance Range					
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (L	94.2 %			30-150					

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	1.19		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:26	KML
7440-39-3	Barium	0.483		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:26	KML
7440-70-2	Calcium	591		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:26	KML
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:26	KML
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:26	KML
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:26	KML



Sample Information

Client Sample ID: MW-5

York Sample ID: 18K1041-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 28, 2018 7:28 am

11/28/2018

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	3.92		mg/L	0.278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:26	KML
7439-92-1	Lead	0.0127		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:26	KML
7439-95-4	Magnesium	159		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:26	KML
7439-96-5	Manganese	1.73		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:26	KML
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:26	KML
7440-09-7	Potassium	69.4		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:26	KML
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:26	KML
7440-23-5	Sodium	2340		mg/L	5.56	10	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/04/2018 11:56	KML
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:26	KML
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:26	KML

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:35	KML
7440-39-3	Barium	0.305		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:35	KML
7440-70-2	Calcium	235		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:35	KML
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:35	KML
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:35	KML
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:35	KML
7439-89-6	Iron	12.9		mg/L	0.278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:35	KML
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:35	KML
7439-95-4	Magnesium	173		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:35	KML
7439-96-5	Manganese	2.77		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:35	KML



Sample Information

Client Sample ID: MW-5

York Sample ID: 18K1041-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 28, 2018 7:28 am

11/28/2018

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:35	KML
7440-09-7	Potassium	80.4		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:35	KML
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:35	KML
7440-23-5	Sodium	2870		mg/L	5.56	10	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/05/2018 12:45	KML
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:35	KML
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:35	KML

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 12:46	BML
7440-38-2	Arsenic	1.80		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 12:46	BML
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 12:46	BML
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 12:46	BML
7782-49-2	Selenium	55.5		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 12:46	BML
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 12:46	BML

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:44	BML
7440-38-2	Arsenic	1.74		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:44	BML
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:44	BML
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:44	BML
7782-49-2	Selenium	41.1		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:44	BML



Sample Information

Client Sample ID: MW-5

York Sample ID: 18K1041-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 28, 2018 7:28 am

11/28/2018

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:44	BML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 09:40	12/03/2018 11:03	SY

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002000	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/05/2018 09:42	12/05/2018 11:12	SY

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND	HT-02	mg/L	0.0100	1	EPA 7196A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 11:10	11/29/2018 11:38	TJM

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.0100	1	Calculation Certifications:	12/05/2018 11:38	12/05/2018 14:55	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	1	SM 4500 CN C/E Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/04/2018 08:32	12/04/2018 17:04	JTV

Analyzed by: Con-Test Analytical Laboratory

PFAS in Water by EPA 537

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: MW-5 **York Sample ID:** 18K1041-06
York Project (SDG) No.: 18K1041 **Client Project ID:** 37321- STX 27-10 49th Ave, LIC **Matrix:** Water **Collection Date/Time:** November 28, 2018 7:28 am **Date Received:** 11/28/2018

Analyzed by: Con-Test Analytical Laboratory

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 07:28		
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 07:28		
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 07:28		
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 07:28		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 07:28		
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 07:28		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 07:28		
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 07:28		
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 07:28		
	NMeFOSAA	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 07:28		
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 07:28		
	NEtFOSAA	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 07:28		
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 07:28		
72629-94-8	Perfluorotridecanoic acid (PFTriDA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 07:28		
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 07:28		
	Surrogate Recoveries	Result					Acceptance Range			
	Surrogate: 13C-PFHxA	%					70-130			
	Surrogate: 13C-PFDA	%					70-130			
	Surrogate: d5-N-EtFOSAA	%					70-130			

Semi-Volatiles, 1,4-Dioxane by 8270-SIM (SUB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	See attached		ug/L	See attach	1	See attached Certifications:	11/28/2018 07:28		
	Surrogate Recoveries	Result					Acceptance Range			



Sample Information

Client Sample ID: MW-5

York Sample ID: 18K1041-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 28, 2018 7:28 am

11/28/2018

Analyzed by: Con-Test Analytical Laboratory

Semi-Volatiles, 1,4-Dioxane by 8270-SIM (SUB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: 17647-74-4, Surrogate: 1,4-Dioxane-d8, %, 70-130

Sample Information

Client Sample ID: MW-6

York Sample ID: 18K1041-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 27, 2018 4:28 pm

11/28/2018

Volatile Organics, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Multiple rows listing various organic compounds and their results.



Sample Information

Client Sample ID: MW-6

York Sample ID: 18K1041-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 27, 2018 4:28 pm

11/28/2018

Volatile Organics, NYSDEC Part 375 List

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
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:15	LLJ
67-66-3	Chloroform	0.42	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:15	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:15	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:15	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:15	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:15	LLJ
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:15	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:15	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:15	LLJ
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:15	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:15	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:15	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:15	LLJ
127-18-4	Tetrachloroethylene	0.53		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:15	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:15	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:15	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:15	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:15	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058	11/30/2018 12:00	12/01/2018 09:15	LLJ

Surrogate Recoveries

Result

Acceptance Range

17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	112 %	69-130
2037-26-5	Surrogate: SURRE: Toluene-d8	97.6 %	81-117
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	102 %	79-122

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes: EXT-EM



Sample Information

Client Sample ID: MW-6

York Sample ID: 18K1041-07

<u>York Project (SDG) No.</u> 18K1041	<u>Client Project ID</u> 37321- STX 27-10 49th Ave, LIC	<u>Matrix</u> Water	<u>Collection Date/Time</u> November 27, 2018 4:28 pm	<u>Date Received</u> 11/28/2018
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Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/04/2018 20:42	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/04/2018 20:42	KH
83-32-9	Acenaphthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 19:08	OW
208-96-8	Acenaphthylene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 19:08	OW
120-12-7	Anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 19:08	OW
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 19:08	OW
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 19:08	OW
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 19:08	OW
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 19:08	OW
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 19:08	OW
218-01-9	Chrysene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 19:08	OW
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 19:08	OW
132-64-9	Dibenzofuran	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/04/2018 20:42	KH
206-44-0	Fluoranthene	0.0718		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 19:08	OW
86-73-7	Fluorene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 19:08	OW
118-74-1	Hexachlorobenzene	ND		ug/L	0.0205	0.0205	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 19:08	OW
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 19:08	OW
91-20-3	Naphthalene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 19:08	OW
87-86-5	Pentachlorophenol	ND		ug/L	0.256	0.256	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 19:08	OW
85-01-8	Phenanthrene	0.0513		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 19:08	OW
108-95-2	Phenol	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/04/2018 20:42	KH
129-00-0	Pyrene	0.0615		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 19:08	OW
Surrogate Recoveries		Result	Acceptance Range								
367-12-4	Surrogate: SURR: 2-Fluorophenol	38.1 %	19.7-63.1								
4165-62-2	Surrogate: SURR: Phenol-d5	20.9 %	10.1-41.7								



Sample Information

Client Sample ID: MW-6

York Sample ID: 18K1041-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 27, 2018 4:28 pm

11/28/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	78.2 %			50.2-113						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	75.6 %			39.9-105						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	76.1 %			39.3-151						
1718-51-0	Surrogate: SURR: Terphenyl-d14	111 %	S-08		30.7-106						

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:17	CM
72-55-9	4,4'-DDE	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:17	CM
50-29-3	4,4'-DDT	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:17	CM
309-00-2	Aldrin	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:17	CM
319-84-6	alpha-BHC	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:17	CM
5103-71-9	alpha-Chlordane	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:17	CM
319-85-7	beta-BHC	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:17	CM
319-86-8	delta-BHC	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:17	CM
60-57-1	Dieldrin	ND		ug/L	0.00205	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:17	CM
959-98-8	Endosulfan I	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:17	CM
33213-65-9	Endosulfan II	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:17	CM
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:17	CM
72-20-8	Endrin	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:17	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:17	CM
76-44-8	Heptachlor	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:17	CM
	Surrogate Recoveries	Result			Acceptance Range					
2051-24-3	Surrogate: Decachlorobiphenyl	39.7 %			30-150					
877-09-8	Surrogate: Tetrachloro-m-xylene	40.6 %			30-150					



Sample Information

Client Sample ID: MW-6

York Sample ID: 18K1041-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 27, 2018 4:28 pm

11/28/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/04/2018 21:02	TJD
11104-28-2	Aroclor 1221	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/04/2018 21:02	TJD
11141-16-5	Aroclor 1232	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/04/2018 21:02	TJD
53469-21-9	Aroclor 1242	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/04/2018 21:02	TJD
12672-29-6	Aroclor 1248	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/04/2018 21:02	TJD
11097-69-1	Aroclor 1254	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/04/2018 21:02	TJD
11096-82-5	Aroclor 1260	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/04/2018 21:02	TJD
1336-36-3	* Total PCBs	ND		ug/L	0.0513	1	EPA 8082A Certifications:	11/29/2018 09:12	12/04/2018 21:02	TJD

Surrogate Recoveries

Result

Acceptance Range

877-09-8	Surrogate: Tetrachloro-m-xylene	62.4 %	30-120
2051-24-3	Surrogate: Decachlorobiphenyl	66.2 %	30-120

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 07:36	12/04/2018 07:23	TJD
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 07:36	12/04/2018 07:23	TJD
94-75-7	2,4-D	ND		ug/L	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 07:36	12/04/2018 07:23	TJD

Surrogate Recoveries

Result

Acceptance Range

19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (D	114 %	30-150
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Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:29	KML
7440-39-3	Barium	ND		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:29	KML
7440-70-2	Calcium	ND		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:29	KML



Sample Information

Client Sample ID: MW-6

York Sample ID: 18K1041-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 27, 2018 4:28 pm

11/28/2018

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:29	KML
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:29	KML
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:29	KML
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:29	KML
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:29	KML
7439-95-4	Magnesium	ND		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:29	KML
7439-96-5	Manganese	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:29	KML
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:29	KML
7440-09-7	Potassium	0.712		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:29	KML
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:29	KML
7440-23-5	Sodium	2.18		mg/L	0.556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:29	KML
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:29	KML
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:29	KML

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:38	KML
7440-39-3	Barium	ND		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:38	KML
7440-70-2	Calcium	107		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:38	KML
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:38	KML
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:38	KML
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:38	KML
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:38	KML
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:38	KML



Sample Information

Client Sample ID: MW-6

York Sample ID: 18K1041-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 27, 2018 4:28 pm

11/28/2018

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	Magnesium	275		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:38	KML
7439-96-5	Manganese	0.0137		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:38	KML
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:38	KML
7440-09-7	Potassium	105		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:38	KML
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:38	KML
7440-23-5	Sodium	4570		mg/L	5.56	10	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/05/2018 12:48	KML
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:38	KML
7440-66-6	Zinc	0.0442		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:38	KML

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 13:01	BML
7440-38-2	Arsenic	1.92		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 13:01	BML
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 13:01	BML
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 13:01	BML
7782-49-2	Selenium	60.5		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 13:01	BML
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 13:01	BML

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:49	BML
7440-38-2	Arsenic	1.95		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:49	BML
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:49	BML



Sample Information

Client Sample ID: MW-6

York Sample ID: 18K1041-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 27, 2018 4:28 pm

11/28/2018

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:49	BML
7782-49-2	Selenium	80.5		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:49	BML
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:49	BML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 09:40	12/03/2018 11:13	SY

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002000	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/05/2018 09:42	12/05/2018 11:22	SY

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND	HT-02	mg/L	0.0100	1	EPA 7196A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 11:10	11/29/2018 11:38	TJM

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.0100	1	Calculation Certifications:	12/05/2018 11:38	12/05/2018 14:55	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	1	SM 4500 CN C/E Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/04/2018 08:32	12/04/2018 17:04	JTV

Analyzed by: Con-Test Analytical Laboratory



Sample Information

Client Sample ID: MW-6

York Sample ID: 18K1041-07

<u>York Project (SDG) No.</u> 18K1041	<u>Client Project ID</u> 37321- STX 27-10 49th Ave, LIC	<u>Matrix</u> Water	<u>Collection Date/Time</u> November 27, 2018 4:28 pm	<u>Date Received</u> 11/28/2018
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Analyzed by: Con-Test Analytical Laboratory

PFAS in Water by EPA 537

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 16:28		
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 16:28		
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 16:28		
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 16:28		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 16:28		
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 16:28		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 16:28		
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 16:28		
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 16:28		
	NMeFOSAA	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 16:28		
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 16:28		
	NEtFOSAA	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 16:28		
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 16:28		
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 16:28		
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 16:28		
	Surrogate Recoveries	Result					Acceptance Range			
	Surrogate: 13C-PFHxA	%					70-130			
	Surrogate: 13C-PFDA	%					70-130			
	Surrogate: d5-N-EtFOSAA	%					70-130			

Semi-Volatiles, 1,4-Dioxane by 8270-SIM (SUB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	See attached		ug/L	See attach	1	See attached Certifications:	11/27/2018 16:28		



Sample Information

Client Sample ID: MW-6 **York Sample ID:** 18K1041-07
York Project (SDG) No. 18K1041 Client Project ID 37321- STX 27-10 49th Ave, LIC Matrix Water Collection Date/Time November 27, 2018 4:28 pm Date Received 11/28/2018

Analyzed by: Con-Test Analytical Laboratory

Semi-Volatiles, 1,4-Dioxane by 8270-SIM (SUB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	Result		Acceptance Range						
17647-74-4	Surrogate: 1,4-Dioxane-d8	%		70-130						

Sample Information

Client Sample ID: MW-7 **York Sample ID:** 18K1041-08
York Project (SDG) No. 18K1041 Client Project ID 37321- STX 27-10 49th Ave, LIC Matrix Water Collection Date/Time November 27, 2018 11:12 am Date Received 11/28/2018

Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:41	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:41	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:41	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:41	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:41	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:41	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:41	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:41	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:41	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:41	LLJ
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:41	LLJ
67-64-1	Acetone	II		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:41	LLJ
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:41	LLJ



Sample Information

Client Sample ID: MW-7

York Sample ID: 18K1041-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 27, 2018 11:12 am

11/28/2018

Volatile Organics, NYSDEC Part 375 List

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
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:41	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:41	LLJ
67-66-3	Chloroform	0.43	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:41	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:41	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:41	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:41	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:41	LLJ
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:41	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:41	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:41	LLJ
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:41	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:41	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:41	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:41	LLJ
127-18-4	Tetrachloroethylene	0.71		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:41	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:41	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:41	LLJ
79-01-6	Trichloroethylene	0.21	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:41	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 09:41	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058	11/30/2018 12:00	12/01/2018 09:41	LLJ
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	111 %	69-130								
2037-26-5	Surrogate: SURRE: Toluene-d8	101 %	81-117								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	98.3 %	79-122								



Sample Information

Client Sample ID: MW-7

York Sample ID: 18K1041-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 27, 2018 11:12 am

11/28/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/04/2018 21:32	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/04/2018 21:32	KH
83-32-9	Acenaphthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 19:40	OW
208-96-8	Acenaphthylene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 19:40	OW
120-12-7	Anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 19:40	OW
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 19:40	OW
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 19:40	OW
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 19:40	OW
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 19:40	OW
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 19:40	OW
218-01-9	Chrysene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 19:40	OW
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 19:40	OW
132-64-9	Dibenzofuran	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/04/2018 21:32	KH
206-44-0	Fluoranthene	0.0718		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 19:40	OW
86-73-7	Fluorene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 19:40	OW
118-74-1	Hexachlorobenzene	ND		ug/L	0.0205	0.0205	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 19:40	OW
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 19:40	OW
91-20-3	Naphthalene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 19:40	OW
87-86-5	Pentachlorophenol	ND		ug/L	0.256	0.256	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 19:40	OW
85-01-8	Phenanthrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 19:40	OW
108-95-2	Phenol	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/04/2018 21:32	KH
129-00-0	Pyrene	0.0718		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 19:40	OW
Surrogate Recoveries		Result	Acceptance Range								
367-12-4	Surrogate: SURR: 2-Fluorophenol	44.9 %	19.7-63.1								



Sample Information

Client Sample ID: MW-7

York Sample ID: 18K1041-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 27, 2018 11:12 am

11/28/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
4165-62-2	Surrogate: SURR: Phenol-d5	22.1 %			10.1-41.7						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	75.8 %			50.2-113						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	73.6 %			39.9-105						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	71.7 %			39.3-151						
1718-51-0	Surrogate: SURR: Terphenyl-d14	97.0 %			30.7-106						

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:32	CM
72-55-9	4,4'-DDE	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:32	CM
50-29-3	4,4'-DDT	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:32	CM
309-00-2	Aldrin	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:32	CM
319-84-6	alpha-BHC	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:32	CM
5103-71-9	alpha-Chlordane	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:32	CM
319-85-7	beta-BHC	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:32	CM
319-86-8	delta-BHC	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:32	CM
60-57-1	Dieldrin	ND		ug/L	0.00205	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:32	CM
959-98-8	Endosulfan I	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:32	CM
33213-65-9	Endosulfan II	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:32	CM
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:32	CM
72-20-8	Endrin	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:32	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:32	CM
76-44-8	Heptachlor	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:32	CM
	Surrogate Recoveries	Result			Acceptance Range					
2051-24-3	Surrogate: Decachlorobiphenyl	41.9 %			30-150					
877-09-8	Surrogate: Tetrachloro-m-xylene	28.3 %	S-GC		30-150					



Sample Information

Client Sample ID: MW-7			York Sample ID: 18K1041-08
<u>York Project (SDG) No.</u> 18K1041	<u>Client Project ID</u> 37321- STX 27-10 49th Ave, LIC	<u>Matrix</u> Water	<u>Collection Date/Time</u> November 27, 2018 11:12 am
			<u>Date Received</u> 11/28/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/04/2018 21:15	TJD
11104-28-2	Aroclor 1221	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/04/2018 21:15	TJD
11141-16-5	Aroclor 1232	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/04/2018 21:15	TJD
53469-21-9	Aroclor 1242	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/04/2018 21:15	TJD
12672-29-6	Aroclor 1248	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/04/2018 21:15	TJD
11097-69-1	Aroclor 1254	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/04/2018 21:15	TJD
11096-82-5	Aroclor 1260	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/04/2018 21:15	TJD
1336-36-3	* Total PCBs	ND		ug/L	0.0513	1	EPA 8082A Certifications:	11/29/2018 09:12	12/04/2018 21:15	TJD
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	37.6 %	30-120							
2051-24-3	Surrogate: Decachlorobiphenyl	58.2 %	30-120							

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 07:36	12/04/2018 07:36	TJD
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 07:36	12/04/2018 07:36	TJD
94-75-7	2,4-D	ND		ug/L	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 07:36	12/04/2018 07:36	TJD
Surrogate Recoveries		Result	Acceptance Range							
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (D	97.6 %	30-150							

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:32	KML
7440-39-3	Barium	0.0588		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:32	KML



Sample Information

Client Sample ID: MW-7

York Sample ID: 18K1041-08

York Project (SDG) No.

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18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 27, 2018 11:12 am

11/28/2018

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	Calcium	104		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:32	KML
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:32	KML
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:32	KML
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:32	KML
7439-89-6	Iron	0.360		mg/L	0.278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:32	KML
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:32	KML
7439-95-4	Magnesium	18.0		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:32	KML
7439-96-5	Manganese	0.173		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:32	KML
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:32	KML
7440-09-7	Potassium	10.5		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:32	KML
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:32	KML
7440-23-5	Sodium	94.7		mg/L	0.556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:32	KML
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:32	KML
7440-66-6	Zinc	0.0891		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:32	KML

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:41	KML
7440-39-3	Barium	ND		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:41	KML
7440-70-2	Calcium	117		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:41	KML
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:41	KML
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:41	KML
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:41	KML



Sample Information

Client Sample ID: MW-7

York Sample ID: 18K1041-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 27, 2018 11:12 am

11/28/2018

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:41	KML
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:41	KML
7439-95-4	Magnesium	287		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:41	KML
7439-96-5	Manganese	0.0230		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:41	KML
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:41	KML
7440-09-7	Potassium	108		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:41	KML
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:41	KML
7440-23-5	Sodium	4800		mg/L	5.56	10	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/05/2018 12:50	KML
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:41	KML
7440-66-6	Zinc	0.0400		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:41	KML

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 13:06	BML
7440-38-2	Arsenic	2.05		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 13:06	BML
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 13:06	BML
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 13:06	BML
7782-49-2	Selenium	73.8		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 13:06	BML
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 13:06	BML

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:54	BML



Sample Information

Client Sample ID: MW-7

York Sample ID: 18K1041-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 27, 2018 11:12 am

11/28/2018

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	1.55		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:54	BML
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:54	BML
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:54	BML
7782-49-2	Selenium	83.6		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:54	BML
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:54	BML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 09:40	12/03/2018 11:24	SY

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002000	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/05/2018 09:42	12/05/2018 11:33	SY

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND	HT-02	mg/L	0.0100	1	EPA 7196A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 11:10	11/29/2018 11:38	TJM

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.0100	1	Calculation Certifications:	12/05/2018 11:38	12/05/2018 14:55	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	1	SM 4500 CN C/E Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/04/2018 08:32	12/04/2018 17:04	JTV



Sample Information

Client Sample ID: MW-7

York Sample ID: 18K1041-08

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 18K1041, 37321- STX 27-10 49th Ave, LIC, Water, November 27, 2018 11:12 am, 11/28/2018

Analyzed by: Con-Test Analytical Laboratory

Semi-Volatiles, 1,4-Dioxane by 8270-SIM (SUB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Includes rows for 1,4-Dioxane and Surrogate Recoveries.

Sample Information

Client Sample ID: MW-8

York Sample ID: 18K1041-09

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 18K1041, 37321- STX 27-10 49th Ave, LIC, Water, November 27, 2018 5:10 pm, 11/28/2018

Volatile Organics, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Lists various volatile organics and their results.



Sample Information

Client Sample ID: MW-8

York Sample ID: 18K1041-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 27, 2018 5:10 pm

11/28/2018

Volatile Organics, NYSDEC Part 375 List

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
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:07	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:07	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:07	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:07	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:07	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:07	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:07	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:07	LLJ
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:07	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:07	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:07	LLJ
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:07	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:07	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:07	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:07	LLJ
127-18-4	Tetrachloroethylene	1.2		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:07	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:07	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:07	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:07	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:07	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058	11/30/2018 12:00	12/01/2018 10:07	LLJ

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	113 %	69-130
2037-26-5	Surrogate: SURR: Toluene-d8	98.8 %	81-117
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	100 %	79-122



Sample Information

Client Sample ID: MW-8

York Sample ID: 18K1041-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 27, 2018 5:10 pm

11/28/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/04/2018 22:21	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/04/2018 22:21	KH
83-32-9	Acenaphthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 20:11	OW
208-96-8	Acenaphthylene	0.113		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 20:11	OW
120-12-7	Anthracene	0.164		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 20:11	OW
56-55-3	Benzo(a)anthracene	0.338		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 20:11	OW
50-32-8	Benzo(a)pyrene	0.421		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 20:11	OW
205-99-2	Benzo(b)fluoranthene	0.503		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 20:11	OW
191-24-2	Benzo(g,h,i)perylene	0.328		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 20:11	OW
207-08-9	Benzo(k)fluoranthene	0.400		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 20:11	OW
218-01-9	Chrysene	0.451		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 20:11	OW
53-70-3	Dibenzo(a,h)anthracene	0.0923		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 20:11	OW
132-64-9	Dibenzofuran	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/04/2018 22:21	KH
206-44-0	Fluoranthene	0.636		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 20:11	OW
86-73-7	Fluorene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 20:11	OW
118-74-1	Hexachlorobenzene	ND		ug/L	0.0205	0.0205	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 20:11	OW
193-39-5	Indeno(1,2,3-cd)pyrene	0.308		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 20:11	OW
91-20-3	Naphthalene	0.0513		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 20:11	OW
87-86-5	Pentachlorophenol	ND		ug/L	0.256	0.256	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 20:11	OW
85-01-8	Phenanthrene	0.226		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 20:11	OW
108-95-2	Phenol	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/04/2018 22:21	KH
129-00-0	Pyrene	0.667		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 20:11	OW



Sample Information

Client Sample ID: MW-8

York Sample ID: 18K1041-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 27, 2018 5:10 pm

11/28/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries		Result	Acceptance Range								
367-12-4	Surrogate: SURR: 2-Fluorophenol	37.8 %			19.7-63.1						
4165-62-2	Surrogate: SURR: Phenol-d5	17.8 %			10.1-41.7						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	76.1 %			50.2-113						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	68.8 %			39.9-105						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	67.2 %			39.3-151						
1718-51-0	Surrogate: SURR: Terphenyl-d14	91.9 %			30.7-106						

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst	
72-54-8	4,4'-DDD	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:47	CM	
72-55-9	4,4'-DDE	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:47	CM	
50-29-3	4,4'-DDT	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:47	CM	
309-00-2	Aldrin	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:47	CM	
319-84-6	alpha-BHC	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:47	CM	
5103-71-9	alpha-Chlordane	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:47	CM	
319-85-7	beta-BHC	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:47	CM	
319-86-8	delta-BHC	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:47	CM	
60-57-1	Dieldrin	ND		ug/L	0.00205	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:47	CM	
959-98-8	Endosulfan I	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:47	CM	
33213-65-9	Endosulfan II	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:47	CM	
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:47	CM	
72-20-8	Endrin	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:47	CM	
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:47	CM	
76-44-8	Heptachlor	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 19:47	CM	
Surrogate Recoveries		Result	Acceptance Range								
2051-24-3	Surrogate: Decachlorobiphenyl	41.9 %			30-150						



Sample Information

Client Sample ID: MW-8

York Sample ID: 18K1041-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 27, 2018 5:10 pm

11/28/2018

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
877-09-8	Surrogate: Tetrachloro-m-xylene	36.5 %			30-150					

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/04/2018 21:29	TJD
11104-28-2	Aroclor 1221	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/04/2018 21:29	TJD
11141-16-5	Aroclor 1232	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/04/2018 21:29	TJD
53469-21-9	Aroclor 1242	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/04/2018 21:29	TJD
12672-29-6	Aroclor 1248	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/04/2018 21:29	TJD
11097-69-1	Aroclor 1254	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/04/2018 21:29	TJD
11096-82-5	Aroclor 1260	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/04/2018 21:29	TJD
1336-36-3	* Total PCBs	ND		ug/L	0.0513	1	EPA 8082A Certifications:	11/29/2018 09:12	12/04/2018 21:29	TJD

Surrogate Recoveries

Result

Acceptance Range

877-09-8	Surrogate: Tetrachloro-m-xylene	61.9 %	30-120
2051-24-3	Surrogate: Decachlorobiphenyl	75.1 %	30-120

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 07:36	12/04/2018 07:49	TJD
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 07:36	12/04/2018 07:49	TJD
94-75-7	2,4-D	ND		ug/L	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 07:36	12/04/2018 07:49	TJD

Surrogate Recoveries

Result

Acceptance Range

19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (D	98.4 %	30-150
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Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: MW-8

York Sample ID: 18K1041-09

<u>York Project (SDG) No.</u> 18K1041	<u>Client Project ID</u> 37321- STX 27-10 49th Ave, LIC	<u>Matrix</u> Water	<u>Collection Date/Time</u> November 27, 2018 5:10 pm	<u>Date Received</u> 11/28/2018
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Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:34	KML
7440-39-3	Barium	0.0786		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:34	KML
7440-70-2	Calcium	86.7		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:34	KML
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:34	KML
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:34	KML
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:34	KML
7439-89-6	Iron	0.907		mg/L	0.278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:34	KML
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:34	KML
7439-95-4	Magnesium	15.8		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:34	KML
7439-96-5	Manganese	0.511		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:34	KML
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:34	KML
7440-09-7	Potassium	9.40		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:34	KML
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:34	KML
7440-23-5	Sodium	86.4		mg/L	0.556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:34	KML
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:34	KML
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:34	KML

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:44	KML
7440-39-3	Barium	0.216		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:44	KML
7440-70-2	Calcium	253		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:44	KML
7440-47-3	Chromium	0.0100		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:44	KML
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:44	KML



Sample Information

Client Sample ID: MW-8

York Sample ID: 18K1041-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 27, 2018 5:10 pm

11/28/2018

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:44	KML
7439-89-6	Iron	0.455		mg/L	0.278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:44	KML
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:44	KML
7439-95-4	Magnesium	404		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:44	KML
7439-96-5	Manganese	1.16		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:44	KML
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:44	KML
7440-09-7	Potassium	154		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:44	KML
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:44	KML
7440-23-5	Sodium	5960		mg/L	5.56	10	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/05/2018 12:53	KML
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:44	KML
7440-66-6	Zinc	0.0336		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:44	KML

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	4.58		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 13:11	BML
7440-38-2	Arsenic	5.09		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 13:11	BML
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 13:11	BML
7440-43-9	Cadmium	1.87		ug/L	0.556	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 13:11	BML
7782-49-2	Selenium	103		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 13:11	BML
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 13:11	BML

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

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: MW-8

York Sample ID: 18K1041-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 27, 2018 5:10 pm

11/28/2018

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	4.25		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:59	BML
7440-38-2	Arsenic	2.09		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:59	BML
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:59	BML
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:59	BML
7782-49-2	Selenium	115		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:59	BML
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 16:59	BML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 09:40	12/03/2018 11:56	SY

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002000	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/05/2018 09:42	12/05/2018 12:05	SY

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND	HT-02	mg/L	0.0100	1	EPA 7196A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 11:10	11/29/2018 11:38	TJM

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.0100	1	Calculation Certifications:	12/05/2018 11:38	12/05/2018 14:55	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

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: MW-8

York Sample ID: 18K1041-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 27, 2018 5:10 pm

11/28/2018

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	1	SM 4500 CN C/E Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/04/2018 08:32	12/04/2018 17:04	JTV

Analyzed by: Con-Test Analytical Laboratory

PFAS in Water by EPA 537

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 17:10		
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 17:10		
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 17:10		
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 17:10		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 17:10		
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 17:10		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 17:10		
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 17:10		
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 17:10		
	NMeFOSAA	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 17:10		
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 17:10		
	NEtFOSAA	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 17:10		
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 17:10		
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 17:10		
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 17:10		
	Surrogate Recoveries	Result					Acceptance Range			
	Surrogate: 13C-PFHxA	%					70-130			
	Surrogate: 13C-PFDA	%					70-130			
	Surrogate: d5-N-EtFOSAA	%					70-130			



Sample Information

Client Sample ID: MW-8

York Sample ID: 18K1041-09

<u>York Project (SDG) No.</u> 18K1041	<u>Client Project ID</u> 37321- STX 27-10 49th Ave, LIC	<u>Matrix</u> Water	<u>Collection Date/Time</u> November 27, 2018 5:10 pm	<u>Date Received</u> 11/28/2018
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Analyzed by: Con-Test Analytical Laboratory

Semi-Volatiles, 1,4-Dioxane by 8270-SIM (SUB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	See attached		ug/L	See attach	1	See attached Certifications:	11/27/2018 17:10		
	Surrogate Recoveries	Result					Acceptance Range			
17647-74-4	Surrogate: 1,4-Dioxane-d8	%					70-130			

Sample Information

Client Sample ID: MW-9

York Sample ID: 18K1041-10

<u>York Project (SDG) No.</u> 18K1041	<u>Client Project ID</u> 37321- STX 27-10 49th Ave, LIC	<u>Matrix</u> Water	<u>Collection Date/Time</u> November 27, 2018 3:56 pm	<u>Date Received</u> 11/28/2018
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Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:34	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:34	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:34	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:34	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:34	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:34	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:34	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:34	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:34	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:34	LLJ
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:34	LLJ
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:34	LLJ



Sample Information

Client Sample ID: MW-9

York Sample ID: 18K1041-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 27, 2018 3:56 pm

11/28/2018

Volatile Organics, NYSDEC Part 375 List

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
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:34	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:34	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:34	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:34	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:34	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:34	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:34	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:34	LLJ
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:34	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:34	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:34	LLJ
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:34	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:34	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:34	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:34	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:34	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:34	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:34	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:34	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 10:34	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058	11/30/2018 12:00	12/01/2018 10:34	LLJ

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	112 %	69-130
2037-26-5	Surrogate: SURRE: Toluene-d8	99.0 %	81-117
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	102 %	79-122



Sample Information

Client Sample ID: MW-9

York Sample ID: 18K1041-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 27, 2018 3:56 pm

11/28/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/04/2018 23:10	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/04/2018 23:10	KH
83-32-9	Acenaphthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 20:42	OW
208-96-8	Acenaphthylene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 20:42	OW
120-12-7	Anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 20:42	OW
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 20:42	OW
50-32-8	Benzo(a)pyrene	0.0513		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 20:42	OW
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 20:42	OW
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 20:42	OW
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 20:42	OW
218-01-9	Chrysene	0.0513		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 20:42	OW
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 20:42	OW
132-64-9	Dibenzofuran	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/04/2018 23:10	KH
206-44-0	Fluoranthene	0.0923		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 20:42	OW
86-73-7	Fluorene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 20:42	OW
118-74-1	Hexachlorobenzene	ND		ug/L	0.0205	0.0205	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 20:42	OW
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 20:42	OW
91-20-3	Naphthalene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 20:42	OW
87-86-5	Pentachlorophenol	ND		ug/L	0.256	0.256	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 20:42	OW
85-01-8	Phenanthrene	0.0821		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 20:42	OW
108-95-2	Phenol	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/04/2018 23:10	KH
129-00-0	Pyrene	0.185		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 20:42	OW

Surrogate Recoveries

Result

Acceptance Range



Sample Information

Client Sample ID: MW-9

York Sample ID: 18K1041-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 27, 2018 3:56 pm

11/28/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
367-12-4	Surrogate: SURR: 2-Fluorophenol	40.3 %			19.7-63.1						
4165-62-2	Surrogate: SURR: Phenol-d5	22.7 %			10.1-41.7						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	59.5 %			50.2-113						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	67.5 %			39.9-105						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	64.5 %			39.3-151						
1718-51-0	Surrogate: SURR: Terphenyl-d14	91.3 %			30.7-106						

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:02	CM
72-55-9	4,4'-DDE	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:02	CM
50-29-3	4,4'-DDT	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:02	CM
309-00-2	Aldrin	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:02	CM
319-84-6	alpha-BHC	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:02	CM
5103-71-9	alpha-Chlordane	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:02	CM
319-85-7	beta-BHC	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:02	CM
319-86-8	delta-BHC	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:02	CM
60-57-1	Dieldrin	ND		ug/L	0.00205	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:02	CM
959-98-8	Endosulfan I	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:02	CM
33213-65-9	Endosulfan II	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:02	CM
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:02	CM
72-20-8	Endrin	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:02	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:02	CM
76-44-8	Heptachlor	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:02	CM
	Surrogate Recoveries	Result					Acceptance Range			
2051-24-3	Surrogate: Decachlorobiphenyl	45.0 %					30-150			
877-09-8	Surrogate: Tetrachloro-m-xylene	50.7 %					30-150			



Sample Information

Client Sample ID: MW-9 **York Sample ID:** 18K1041-10
York Project (SDG) No.: 18K1041 **Client Project ID:** 37321- STX 27-10 49th Ave, LIC **Matrix:** Water **Collection Date/Time:** November 27, 2018 3:56 pm **Date Received:** 11/28/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/04/2018 21:42	TJD
11104-28-2	Aroclor 1221	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/04/2018 21:42	TJD
11141-16-5	Aroclor 1232	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/04/2018 21:42	TJD
53469-21-9	Aroclor 1242	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/04/2018 21:42	TJD
12672-29-6	Aroclor 1248	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/04/2018 21:42	TJD
11097-69-1	Aroclor 1254	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/04/2018 21:42	TJD
11096-82-5	Aroclor 1260	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/04/2018 21:42	TJD
1336-36-3	* Total PCBs	ND		ug/L	0.0513	1	EPA 8082A Certifications:	11/29/2018 09:12	12/04/2018 21:42	TJD
Surrogate Recoveries		Result			Acceptance Range					
877-09-8	Surrogate: Tetrachloro-m-xylene	80.7 %			30-120					
2051-24-3	Surrogate: Decachlorobiphenyl	80.1 %			30-120					

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 07:36	12/04/2018 08:02	TJD
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 07:36	12/04/2018 08:02	TJD
94-75-7	2,4-D	ND		ug/L	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 07:36	12/04/2018 08:02	TJD
Surrogate Recoveries		Result			Acceptance Range					
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (E)	86.8 %			30-150					

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	0.354		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:42	KML
7440-39-3	Barium	0.0502		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:42	KML



Sample Information

Client Sample ID: MW-9

York Sample ID: 18K1041-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 27, 2018 3:56 pm

11/28/2018

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	Calcium	34.6		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:42	KML
7440-47-3	Chromium	0.00835		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:42	KML
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:42	KML
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:42	KML
7439-89-6	Iron	1.45		mg/L	0.278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:42	KML
7439-92-1	Lead	0.00629		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:42	KML
7439-95-4	Magnesium	2.77		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:42	KML
7439-96-5	Manganese	0.168		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:42	KML
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:42	KML
7440-09-7	Potassium	4.19		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:42	KML
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:42	KML
7440-23-5	Sodium	26.5		mg/L	0.556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:42	KML
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:42	KML
7440-66-6	Zinc	0.0487		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:42	KML

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	0.220		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:46	KML
7440-39-3	Barium	0.297		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:46	KML
7440-70-2	Calcium	481		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:46	KML
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:46	KML
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:46	KML
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:46	KML



Sample Information

Client Sample ID: MW-9

York Sample ID: 18K1041-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 27, 2018 3:56 pm

11/28/2018

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	1.25		mg/L	0.278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:46	KML
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:46	KML
7439-95-4	Magnesium	42.4		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:46	KML
7439-96-5	Manganese	0.914		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:46	KML
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:46	KML
7440-09-7	Potassium	42.3		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:46	KML
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:46	KML
7440-23-5	Sodium	2850		mg/L	5.56	10	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/05/2018 13:01	KML
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:46	KML
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:46	KML

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 13:16	BML
7440-38-2	Arsenic	1.28		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 13:16	BML
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 13:16	BML
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 13:16	BML
7782-49-2	Selenium	44.4		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 13:16	BML
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 13:16	BML

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 17:03	BML



Sample Information

Client Sample ID: MW-9

York Sample ID: 18K1041-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 27, 2018 3:56 pm

11/28/2018

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	1.20		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 17:03	BML
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 17:03	BML
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 17:03	BML
7782-49-2	Selenium	54.5		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 17:03	BML
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 17:03	BML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 09:40	12/03/2018 12:06	SY

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002000	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/05/2018 09:42	12/05/2018 12:15	SY

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND	HT-02	mg/L	0.0100	1	EPA 7196A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 11:10	11/29/2018 11:38	TJM

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.0100	1	Calculation Certifications:	12/05/2018 11:38	12/05/2018 14:55	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	0.0207		mg/L	0.0100	1	SM 4500 CN C/E Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/04/2018 08:32	12/04/2018 17:04	JTV



Sample Information

Client Sample ID: MW-9					York Sample ID: 18K1041-10
<u>York Project (SDG) No.</u> 18K1041	<u>Client Project ID</u> 37321- STX 27-10 49th Ave, LIC	<u>Matrix</u> Water	<u>Collection Date/Time</u> November 27, 2018 3:56 pm	<u>Date Received</u> 11/28/2018	

Analyzed by: Con-Test Analytical Laboratory

PFAS in Water by EPA 537

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 15:56		
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 15:56		
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 15:56		
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 15:56		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 15:56		
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 15:56		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 15:56		
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 15:56		
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 15:56		
	NMeFOSAA	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 15:56		
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 15:56		
	NEtFOSAA	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 15:56		
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 15:56		
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 15:56		
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 15:56		
	Surrogate Recoveries	Result		Acceptance Range						
	Surrogate: 13C-PFHxA	%		70-130						
	Surrogate: 13C-PFDA	%		70-130						
	Surrogate: d5-N-EtFOSAA	%		70-130						

Semi-Volatiles, 1,4-Dioxane by 8270-SIM (SUB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

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									
www.YORKLAB.com	(203) 325-1371									
					132-02 89th AVENUE					
					FAX (203) 357-0166					
								RICHMOND HILL, NY 11418		
								ClientServices@		



Sample Information

Client Sample ID: MW-9

York Sample ID: 18K1041-10

York Project (SDG) No. 18K1041 Client Project ID 37321- STX 27-10 49th Ave, LIC Matrix Water Collection Date/Time November 27, 2018 3:56 pm Date Received 11/28/2018

Analyzed by: Con-Test Analytical Laboratory

Semi-Volatiles, 1,4-Dioxane by 8270-SIM (SUB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

Table with columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Includes rows for 1,4-Dioxane and Surrogate Recoveries.

Sample Information

Client Sample ID: MW-10

York Sample ID: 18K1041-11

York Project (SDG) No. 18K1041 Client Project ID 37321- STX 27-10 49th Ave, LIC Matrix Water Collection Date/Time November 27, 2018 4:35 pm Date Received 11/28/2018

Volatile Organics, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

Table with columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Lists various volatile organics and their results.



Sample Information

Client Sample ID: MW-10

York Sample ID: 18K1041-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 27, 2018 4:35 pm

11/28/2018

Volatile Organics, NYSDEC Part 375 List

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
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 11:00	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 11:00	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 11:00	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 11:00	LLJ
156-59-2	cis-1,2-Dichloroethylene	0.44	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 11:00	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 11:00	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 11:00	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 11:00	LLJ
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 11:00	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 11:00	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 11:00	LLJ
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 11:00	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 11:00	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 11:00	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 11:00	LLJ
127-18-4	Tetrachloroethylene	0.26	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 11:00	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 11:00	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 11:00	LLJ
79-01-6	Trichloroethylene	0.26	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 11:00	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/30/2018 12:00	12/01/2018 11:00	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058	11/30/2018 12:00	12/01/2018 11:00	LLJ

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	112 %	69-130
2037-26-5	Surrogate: SURR: Toluene-d8	99.3 %	81-117
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	104 %	79-122



Sample Information

Client Sample ID: MW-10

York Sample ID: 18K1041-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 27, 2018 4:35 pm

11/28/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes: EXT-EM

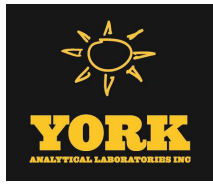
Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/05/2018 00:00	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/05/2018 00:00	KH
83-32-9	Acenaphthene	0.0615		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 21:13	OW
208-96-8	Acenaphthylene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 21:13	OW
120-12-7	Anthracene	0.0615		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 21:13	OW
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 21:13	OW
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 21:13	OW
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 21:13	OW
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 21:13	OW
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 21:13	OW
218-01-9	Chrysene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 21:13	OW
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 21:13	OW
132-64-9	Dibenzofuran	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/05/2018 00:00	KH
206-44-0	Fluoranthene	0.0821		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 21:13	OW
86-73-7	Fluorene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 21:13	OW
118-74-1	Hexachlorobenzene	ND		ug/L	0.0205	0.0205	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 21:13	OW
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 21:13	OW
91-20-3	Naphthalene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 21:13	OW
87-86-5	Pentachlorophenol	ND		ug/L	0.256	0.256	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 21:13	OW
85-01-8	Phenanthrene	0.164		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 21:13	OW
108-95-2	Phenol	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/05/2018 00:00	KH
129-00-0	Pyrene	0.0923		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 21:13	OW

Surrogate Recoveries

Result

Acceptance Range



Sample Information

Client Sample ID: MW-10

York Sample ID: 18K1041-11

York Project (SDG) No.

Client Project ID

Matrix

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18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 27, 2018 4:35 pm

11/28/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
367-12-4	Surrogate: SURR: 2-Fluorophenol	38.1 %			19.7-63.1						
4165-62-2	Surrogate: SURR: Phenol-d5	21.6 %			10.1-41.7						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	67.7 %			50.2-113						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	67.6 %			39.9-105						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	69.2 %			39.3-151						
1718-51-0	Surrogate: SURR: Terphenyl-d14	81.0 %			30.7-106						

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst	
72-54-8	4,4'-DDD	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:17	CM	
72-55-9	4,4'-DDE	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:17	CM	
50-29-3	4,4'-DDT	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:17	CM	
309-00-2	Aldrin	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:17	CM	
319-84-6	alpha-BHC	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:17	CM	
5103-71-9	alpha-Chlordane	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:17	CM	
319-85-7	beta-BHC	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:17	CM	
319-86-8	delta-BHC	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:17	CM	
60-57-1	Dieldrin	ND		ug/L	0.00205	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:17	CM	
959-98-8	Endosulfan I	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:17	CM	
33213-65-9	Endosulfan II	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:17	CM	
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:17	CM	
72-20-8	Endrin	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:17	CM	
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:17	CM	
76-44-8	Heptachlor	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:17	CM	
Surrogate Recoveries		Result			Acceptance Range						
2051-24-3	Surrogate: Decachlorobiphenyl	36.5 %			30-150						
877-09-8	Surrogate: Tetrachloro-m-xylene	48.3 %			30-150						



Sample Information

Client Sample ID: MW-10

York Sample ID: 18K1041-11

York Project (SDG) No.

Client Project ID

Matrix

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18K1041

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Water

November 27, 2018 4:35 pm

11/28/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/04/2018 21:56	TJD
11104-28-2	Aroclor 1221	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/04/2018 21:56	TJD
11141-16-5	Aroclor 1232	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/04/2018 21:56	TJD
53469-21-9	Aroclor 1242	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/04/2018 21:56	TJD
12672-29-6	Aroclor 1248	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/04/2018 21:56	TJD
11097-69-1	Aroclor 1254	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/04/2018 21:56	TJD
11096-82-5	Aroclor 1260	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/04/2018 21:56	TJD
1336-36-3	* Total PCBs	ND		ug/L	0.0513	1	EPA 8082A Certifications:	11/29/2018 09:12	12/04/2018 21:56	TJD
Surrogate Recoveries		Result			Acceptance Range					
877-09-8	Surrogate: Tetrachloro-m-xylene	87.1 %			30-120					
2051-24-3	Surrogate: Decachlorobiphenyl	74.1 %			30-120					

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 07:36	12/04/2018 08:14	TJD
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 07:36	12/04/2018 08:14	TJD
94-75-7	2,4-D	ND		ug/L	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 07:36	12/04/2018 08:14	TJD
Surrogate Recoveries		Result			Acceptance Range					
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (E	86.2 %			30-150					

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:44	KML
7440-39-3	Barium	ND		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:44	KML



Sample Information

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Water

November 27, 2018 4:35 pm

11/28/2018

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	Calcium	7.71		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:44	KML
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:44	KML
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:44	KML
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:44	KML
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:44	KML
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:44	KML
7439-95-4	Magnesium	1.86		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:44	KML
7439-96-5	Manganese	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:44	KML
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:44	KML
7440-09-7	Potassium	2.05		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:44	KML
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:44	KML
7440-23-5	Sodium	20.2		mg/L	0.556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:44	KML
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:44	KML
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:44	KML

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	0.114		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:49	KML
7440-39-3	Barium	0.477		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:49	KML
7440-70-2	Calcium	577		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:49	KML
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:49	KML
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:49	KML
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:49	KML



Sample Information

Client Sample ID: MW-10

York Sample ID: 18K1041-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 27, 2018 4:35 pm

11/28/2018

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	1.96		mg/L	0.278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:49	KML
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:49	KML
7439-95-4	Magnesium	156		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:49	KML
7439-96-5	Manganese	1.69		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:49	KML
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:49	KML
7440-09-7	Potassium	69.8		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:49	KML
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:49	KML
7440-23-5	Sodium	1170		mg/L	0.556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:49	KML
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:49	KML
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:49	KML

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 13:20	BML
7440-38-2	Arsenic	4.06		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 13:20	BML
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 13:20	BML
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 13:20	BML
7782-49-2	Selenium	40.8		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 13:20	BML
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 13:20	BML

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 17:08	BML



Sample Information

Client Sample ID: MW-10

York Sample ID: 18K1041-11

<u>York Project (SDG) No.</u> 18K1041	<u>Client Project ID</u> 37321- STX 27-10 49th Ave, LIC	<u>Matrix</u> Water	<u>Collection Date/Time</u> November 27, 2018 4:35 pm	<u>Date Received</u> 11/28/2018
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Metals, Target Analyte, ICPMS Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	4.35		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 17:08	BML
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 17:08	BML
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 17:08	BML
7782-49-2	Selenium	63.6		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 17:08	BML
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 17:08	BML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 09:40	12/03/2018 12:17	SY

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002000	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/05/2018 09:42	12/05/2018 12:26	SY

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND	HT-02	mg/L	0.0100	1	EPA 7196A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 11:10	11/29/2018 11:38	TJM

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.0100	1	Calculation Certifications:	12/05/2018 11:38	12/05/2018 14:55	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	1	SM 4500 CN C/E Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/04/2018 08:32	12/04/2018 17:04	JTV



Sample Information

Client Sample ID: MW-10

York Sample ID: 18K1041-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 27, 2018 4:35 pm

11/28/2018

Analyzed by: Con-Test Analytical Laboratory

PFAS in Water by EPA 537

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 16:35		
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 16:35		
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 16:35		
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 16:35		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 16:35		
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 16:35		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 16:35		
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 16:35		
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 16:35		
	NMeFOSAA	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 16:35		
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 16:35		
	NEtFOSAA	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 16:35		
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 16:35		
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 16:35		
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ng/L	See attach	1	See attached Certifications:	11/27/2018 16:35		
	Surrogate Recoveries	Result		Acceptance Range						
	Surrogate: 13C-PFHxA	%		70-130						
	Surrogate: 13C-PFDA	%		70-130						
	Surrogate: d5-N-EtFOSAA	%		70-130						

Semi-Volatiles, 1,4-Dioxane by 8270-SIM (SUB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

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									
www.YORKLAB.com	(203) 325-1371									
					132-02 89th AVENUE					
					FAX (203) 357-0166					
								RICHMOND HILL, NY 11418		
								ClientServices@		



Sample Information

Client Sample ID: MW-10

York Sample ID: 18K1041-11

<u>York Project (SDG) No.</u> 18K1041	<u>Client Project ID</u> 37321- STX 27-10 49th Ave, LIC	<u>Matrix</u> Water	<u>Collection Date/Time</u> November 27, 2018 4:35 pm	<u>Date Received</u> 11/28/2018
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Analyzed by: Con-Test Analytical Laboratory

Semi-Volatiles, 1,4-Dioxane by 8270-SIM (SUB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	See attached		ug/L	See attach	1	See attached Certifications:	11/27/2018 16:35		
Surrogate Recoveries		Result		Acceptance Range						
17647-74-4	Surrogate: 1,4-Dioxane-d8	%		70-130						

Sample Information

Client Sample ID: Field Blank

York Sample ID: 18K1041-12

<u>York Project (SDG) No.</u> 18K1041	<u>Client Project ID</u> 37321- STX 27-10 49th Ave, LIC	<u>Matrix</u> Water	<u>Collection Date/Time</u> November 28, 2018 9:05 am	<u>Date Received</u> 11/28/2018
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Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:27	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:27	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:27	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:27	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:27	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:27	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:27	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:27	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:27	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:27	LLJ
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:27	LLJ
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:27	LLJ



Sample Information

Client Sample ID: Field Blank

York Sample ID: 18K1041-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 28, 2018 9:05 am

11/28/2018

Volatile Organics, NYSDEC Part 375 List

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
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:27	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:27	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:27	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:27	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:27	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:27	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:27	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:27	LLJ
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:27	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:27	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:27	LLJ
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:27	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:27	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:27	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:27	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:27	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:27	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:27	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:27	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:27	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058	12/01/2018 12:00	12/01/2018 18:27	LLJ

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	106 %	69-130
2037-26-5	Surrogate: SURRE: Toluene-d8	103 %	81-117
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	88.6 %	79-122



Sample Information

Client Sample ID: Field Blank

York Sample ID: 18K1041-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 28, 2018 9:05 am

11/28/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/05/2018 00:49	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/05/2018 00:49	KH
83-32-9	Acenaphthene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 21:45	OW
208-96-8	Acenaphthylene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 21:45	OW
120-12-7	Anthracene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 21:45	OW
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 21:45	OW
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 21:45	OW
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 21:45	OW
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 21:45	OW
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 21:45	OW
218-01-9	Chrysene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 21:45	OW
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 21:45	OW
132-64-9	Dibenzofuran	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/05/2018 00:49	KH
206-44-0	Fluoranthene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 21:45	OW
86-73-7	Fluorene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 21:45	OW
118-74-1	Hexachlorobenzene	ND		ug/L	0.0211	0.0211	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 21:45	OW
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 21:45	OW
91-20-3	Naphthalene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 21:45	OW
87-86-5	Pentachlorophenol	ND		ug/L	0.263	0.263	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 21:45	OW
85-01-8	Phenanthrene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 21:45	OW
108-95-2	Phenol	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	12/05/2018 00:49	KH
129-00-0	Pyrene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:03	11/30/2018 21:45	OW
	Surrogate Recoveries	Result			Acceptance Range						
367-12-4	Surrogate: SURR: 2-Fluorophenol	36.2 %			19.7-63.1						



Sample Information

Client Sample ID: Field Blank

York Sample ID: 18K1041-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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Water

November 28, 2018 9:05 am

11/28/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
4165-62-2	Surrogate: SURR: Phenol-d5	21.2 %			10.1-41.7						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	71.0 %			50.2-113						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	61.2 %			39.9-105						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	67.5 %			39.3-151						
1718-51-0	Surrogate: SURR: Terphenyl-d14	95.4 %			30.7-106						

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:32	CM
72-55-9	4,4'-DDE	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:32	CM
50-29-3	4,4'-DDT	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:32	CM
309-00-2	Aldrin	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:32	CM
319-84-6	alpha-BHC	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:32	CM
5103-71-9	alpha-Chlordane	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:32	CM
319-85-7	beta-BHC	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:32	CM
319-86-8	delta-BHC	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:32	CM
60-57-1	Dieldrin	ND		ug/L	0.00205	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:32	CM
959-98-8	Endosulfan I	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:32	CM
33213-65-9	Endosulfan II	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:32	CM
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:32	CM
72-20-8	Endrin	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:32	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:32	CM
76-44-8	Heptachlor	ND		ug/L	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/29/2018 09:12	12/03/2018 20:32	CM

Surrogate Recoveries	Result	Acceptance Range
2051-24-3 Surrogate: Decachlorobiphenyl	44.7 %	30-150
877-09-8 Surrogate: Tetrachloro-m-xylene	48.8 %	30-150



Sample Information

Client Sample ID: Field Blank

York Sample ID: 18K1041-12

York Project (SDG) No.

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37321- STX 27-10 49th Ave, LIC

Water

November 28, 2018 9:05 am

11/28/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/04/2018 22:09	TJD
11104-28-2	Aroclor 1221	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/04/2018 22:09	TJD
11141-16-5	Aroclor 1232	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/04/2018 22:09	TJD
53469-21-9	Aroclor 1242	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/04/2018 22:09	TJD
12672-29-6	Aroclor 1248	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/04/2018 22:09	TJD
11097-69-1	Aroclor 1254	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/04/2018 22:09	TJD
11096-82-5	Aroclor 1260	ND		ug/L	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 09:12	12/04/2018 22:09	TJD
1336-36-3	* Total PCBs	ND		ug/L	0.0513	1	EPA 8082A Certifications:	11/29/2018 09:12	12/04/2018 22:09	TJD
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	81.2 %	30-120							
2051-24-3	Surrogate: Decachlorobiphenyl	79.1 %	30-120							

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 07:36	12/04/2018 08:27	TJD
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 07:36	12/04/2018 08:27	TJD
94-75-7	2,4-D	ND		ug/L	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 07:36	12/04/2018 08:27	TJD
Surrogate Recoveries		Result	Acceptance Range							
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (D	95.2 %	30-150							

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	20.7		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:47	KML
7440-39-3	Barium	1.25		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:47	KML



Sample Information

Client Sample ID: Field Blank

York Sample ID: 18K1041-12

York Project (SDG) No.

Client Project ID

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Water

November 28, 2018 9:05 am

11/28/2018

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	Calcium	297		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:47	KML
7440-47-3	Chromium	0.0654		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:47	KML
7440-48-4	Cobalt	0.0188		mg/L	0.00444	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:47	KML
7440-50-8	Copper	0.521		mg/L	0.0222	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:47	KML
7439-89-6	Iron	111		mg/L	0.278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:47	KML
7439-92-1	Lead	1.57		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:47	KML
7439-95-4	Magnesium	38.9		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:47	KML
7439-96-5	Manganese	1.66		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:47	KML
7440-02-0	Nickel	0.0426		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:47	KML
7440-09-7	Potassium	31.8		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:47	KML
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:47	KML
7440-23-5	Sodium	375		mg/L	0.556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:47	KML
7440-62-2	Vanadium	0.0531		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:47	KML
7440-66-6	Zinc	1.02		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:29	12/03/2018 12:47	KML

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	0.0707		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:52	KML
7440-39-3	Barium	ND		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:52	KML
7440-70-2	Calcium	ND		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:52	KML
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:52	KML
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:52	KML
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:52	KML



Sample Information

Client Sample ID: Field Blank

York Sample ID: 18K1041-12

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Water

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Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:52	KML
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:52	KML
7439-95-4	Magnesium	ND		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:52	KML
7439-96-5	Manganese	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:52	KML
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:52	KML
7440-09-7	Potassium	0.820		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:52	KML
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:52	KML
7440-23-5	Sodium	1.73		mg/L	0.556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:52	KML
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:52	KML
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:56	12/04/2018 14:52	KML

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 13:25	BML
7440-38-2	Arsenic	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 13:25	BML
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 13:25	BML
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 13:25	BML
7782-49-2	Selenium	9.03		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 13:25	BML
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/30/2018 18:25	12/05/2018 13:25	BML

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 17:13	BML
7440-38-2	Arsenic	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 17:13	BML



Sample Information

Client Sample ID: Field Blank

York Sample ID: 18K1041-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 28, 2018 9:05 am

11/28/2018

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 17:13	BML
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 17:13	BML
7782-49-2	Selenium	9.06		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 17:13	BML
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/04/2018 12:59	12/04/2018 17:13	BML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/03/2018 09:40	12/03/2018 12:28	SY

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002000	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/05/2018 09:42	12/05/2018 12:36	SY

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND	HT-02	mg/L	0.0100	1	EPA 7196A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/29/2018 11:10	11/29/2018 11:38	TJM

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	0.0654		mg/L	0.0100	1	Calculation Certifications:	12/05/2018 11:38	12/05/2018 14:55	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	1	SM 4500 CN C/E Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/04/2018 08:32	12/04/2018 17:04	JTV



Sample Information

Client Sample ID: Field Blank

York Sample ID: 18K1041-12

<u>York Project (SDG) No.</u> 18K1041	<u>Client Project ID</u> 37321- STX 27-10 49th Ave, LIC	<u>Matrix</u> Water	<u>Collection Date/Time</u> November 28, 2018 9:05 am	<u>Date Received</u> 11/28/2018
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Analyzed by: Con-Test Analytical Laboratory

PFAS in Water by EPA 537

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 09:05		
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 09:05		
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 09:05		
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 09:05		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 09:05		
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 09:05		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 09:05		
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 09:05		
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 09:05		
	NMeFOSAA	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 09:05		
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 09:05		
	NEtFOSAA	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 09:05		
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 09:05		
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 09:05		
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ng/L	See attach	1	See attached Certifications:	11/28/2018 09:05		
	Surrogate Recoveries	Result		Acceptance Range						
	Surrogate: 13C-PFHxA	%		70-130						
	Surrogate: 13C-PFDA	%		70-130						
	Surrogate: d5-N-EtFOSAA	%		70-130						

Semi-Volatiles, 1,4-Dioxane by 8270-SIM (SUB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

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: Field Blank

York Sample ID: 18K1041-12

<u>York Project (SDG) No.</u> 18K1041	<u>Client Project ID</u> 37321- STX 27-10 49th Ave, LIC	<u>Matrix</u> Water	<u>Collection Date/Time</u> November 28, 2018 9:05 am	<u>Date Received</u> 11/28/2018
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Analyzed by: Con-Test Analytical Laboratory

Semi-Volatiles, 1,4-Dioxane by 8270-SIM (SUB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	See attached		ug/L	See attach	1	See attached Certifications:	11/28/2018 09:05		
	Surrogate Recoveries	Result					Acceptance Range			
17647-74-4	Surrogate: 1,4-Dioxane-d8	%					70-130			

Sample Information

Client Sample ID: Trip Blank

York Sample ID: 18K1041-13

<u>York Project (SDG) No.</u> 18K1041	<u>Client Project ID</u> 37321- STX 27-10 49th Ave, LIC	<u>Matrix</u> Water	<u>Collection Date/Time</u> November 28, 2018 12:00 am	<u>Date Received</u> 11/28/2018
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Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:01	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:01	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:01	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:01	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:01	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:01	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:01	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:01	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:01	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:01	LLJ
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:01	LLJ
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:01	LLJ



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 18K1041-13

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K1041

37321- STX 27-10 49th Ave, LIC

Water

November 28, 2018 12:00 am

11/28/2018

Volatile Organics, NYSDEC Part 375 List

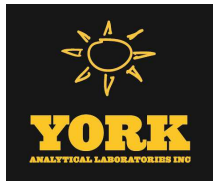
Log-in Notes:

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
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:01	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:01	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:01	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:01	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:01	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:01	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:01	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:01	LLJ
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:01	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:01	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:01	LLJ
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:01	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:01	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:01	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:01	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:01	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:01	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:01	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:01	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/01/2018 12:00	12/01/2018 18:01	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058	12/01/2018 12:00	12/01/2018 18:01	LLJ

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	109 %	69-130
2037-26-5	Surrogate: SURRE: Toluene-d8	98.8 %	81-117
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	100 %	79-122



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 18K1041-13

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
18K1041	37321- STX 27-10 49th Ave, LIC	Water	November 28, 2018 12:00 am	11/28/2018



Analytical Batch Summary

Batch ID: BK81242

Preparation Method: EPA 5030B

Prepared By: LDS

YORK Sample ID	Client Sample ID	Preparation Date
18K1041-12	Field Blank	12/01/18
18K1041-13	Trip Blank	12/01/18
BK81242-BLK1	Blank	12/01/18
BK81242-BS1	LCS	12/01/18
BK81242-BSD1	LCS Dup	12/01/18

Batch ID: BK81481

Preparation Method: EPA 3510C

Prepared By: KNK

YORK Sample ID	Client Sample ID	Preparation Date
18K1041-01	MW-1	11/29/18
18K1041-02	MW-2	11/29/18
18K1041-03	MW-3	11/29/18
18K1041-04	MW-4	11/29/18
18K1041-05	MW-4 DUP	11/29/18
18K1041-06	MW-5	11/29/18
18K1041-07	MW-6	11/29/18
18K1041-08	MW-7	11/29/18
18K1041-09	MW-8	11/29/18
18K1041-10	MW-9	11/29/18
18K1041-11	MW-10	11/29/18
18K1041-12	Field Blank	11/29/18
BK81481-BLK1	Blank	11/29/18
BK81481-BLK2	Blank	11/29/18
BK81481-BS1	LCS	11/29/18
BK81481-BS2	LCS	11/29/18
BK81481-BSD1	LCS Dup	11/29/18

Batch ID: BK81482

Preparation Method: EPA SW846-3510C Low Level

Prepared By: KNK

YORK Sample ID	Client Sample ID	Preparation Date
18K1041-01	MW-1	11/29/18
18K1041-01	MW-1	11/29/18
18K1041-02	MW-2	11/29/18
18K1041-02	MW-2	11/29/18
18K1041-03	MW-3	11/29/18
18K1041-03	MW-3	11/29/18
18K1041-04	MW-4	11/29/18
18K1041-04	MW-4	11/29/18
18K1041-05	MW-4 DUP	11/29/18
18K1041-05	MW-4 DUP	11/29/18
18K1041-06	MW-5	11/29/18
18K1041-06	MW-5	11/29/18
18K1041-07	MW-6	11/29/18
18K1041-07	MW-6	11/29/18
18K1041-08	MW-7	11/29/18



18K1041-08	MW-7	11/29/18
18K1041-09	MW-8	11/29/18
18K1041-09	MW-8	11/29/18
18K1041-10	MW-9	11/29/18
18K1041-10	MW-9	11/29/18
18K1041-11	MW-10	11/29/18
18K1041-11	MW-10	11/29/18
18K1041-12	Field Blank	11/29/18
18K1041-12	Field Blank	11/29/18
BK81482-BLK1	Blank	11/29/18
BK81482-BLK2	Blank	11/29/18
BK81482-BS1	LCS	11/29/18
BK81482-BS2	LCS	11/29/18
BK81482-BSD1	LCS Dup	11/29/18
BK81482-BSD2	LCS Dup	11/29/18

Batch ID: BK81501 **Preparation Method:** Analysis Preparation **Prepared By:** TJM

YORK Sample ID	Client Sample ID	Preparation Date
18K1041-01	MW-1	11/29/18
18K1041-02	MW-2	11/29/18
18K1041-03	MW-3	11/29/18
18K1041-04	MW-4	11/29/18
18K1041-05	MW-4 DUP	11/29/18
18K1041-06	MW-5	11/29/18
18K1041-07	MW-6	11/29/18
18K1041-08	MW-7	11/29/18
18K1041-09	MW-8	11/29/18
18K1041-10	MW-9	11/29/18
18K1041-11	MW-10	11/29/18
18K1041-12	Field Blank	11/29/18
BK81501-BLK1	Blank	11/29/18
BK81501-BS1	LCS	11/29/18
BK81501-DUP1	Duplicate	11/29/18
BK81501-MS1	Matrix Spike	11/29/18

Batch ID: BK81517 **Preparation Method:** EPA 5030B **Prepared By:** LDS

YORK Sample ID	Client Sample ID	Preparation Date
18K1041-01	MW-1	11/30/18
18K1041-02	MW-2	11/30/18
18K1041-03	MW-3	11/30/18
18K1041-04	MW-4	11/30/18
18K1041-05	MW-4 DUP	11/30/18
18K1041-06	MW-5	11/30/18
18K1041-07	MW-6	11/30/18
18K1041-08	MW-7	11/30/18
18K1041-09	MW-8	11/30/18
18K1041-10	MW-9	11/30/18
18K1041-11	MW-10	11/30/18
BK81517-BLK1	Blank	11/30/18



BK81517-BS1 LCS 11/30/18
BK81517-BSD1 LCS Dup 11/30/18

Batch ID: BK81619 **Preparation Method:** EPA 3015A **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
18K1041-01	MW-1	11/30/18
18K1041-02	MW-2	11/30/18
18K1041-03	MW-3	11/30/18
18K1041-04	MW-4	11/30/18
18K1041-05	MW-4 DUP	11/30/18
18K1041-06	MW-5	11/30/18
18K1041-07	MW-6	11/30/18
18K1041-08	MW-7	11/30/18
18K1041-09	MW-8	11/30/18
18K1041-10	MW-9	11/30/18
18K1041-11	MW-10	11/30/18
18K1041-12	Field Blank	11/30/18
BK81619-BLK1	Blank	11/30/18
BK81619-BS1	LCS	11/30/18

Batch ID: BK81620 **Preparation Method:** EPA 3015A **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
18K1041-01	MW-1	11/30/18
18K1041-01RE1	MW-1	11/30/18
18K1041-02	MW-2	11/30/18
18K1041-02RE1	MW-2	11/30/18
18K1041-03	MW-3	11/30/18
18K1041-03RE1	MW-3	11/30/18
18K1041-04	MW-4	11/30/18
18K1041-04RE1	MW-4	11/30/18
18K1041-05	MW-4 DUP	11/30/18
18K1041-05RE1	MW-4 DUP	11/30/18
18K1041-06	MW-5	11/30/18
18K1041-06RE1	MW-5	11/30/18
18K1041-07	MW-6	11/30/18
18K1041-08	MW-7	11/30/18
18K1041-09	MW-8	11/30/18
18K1041-10	MW-9	11/30/18
18K1041-11	MW-10	11/30/18
18K1041-12	Field Blank	11/30/18
BK81620-BLK1	Blank	11/30/18
BK81620-BS1	LCS	11/30/18

Batch ID: BL80007 **Preparation Method:** EPA 3535A **Prepared By:** SGM

YORK Sample ID	Client Sample ID	Preparation Date
18K1041-01	MW-1	12/03/18
18K1041-02	MW-2	12/03/18



18K1041-03	MW-3	12/03/18
18K1041-04	MW-4	12/03/18
18K1041-05	MW-4 DUP	12/03/18
18K1041-06	MW-5	12/03/18
18K1041-07	MW-6	12/03/18
18K1041-08	MW-7	12/03/18
18K1041-09	MW-8	12/03/18
18K1041-10	MW-9	12/03/18
18K1041-11	MW-10	12/03/18
18K1041-12	Field Blank	12/03/18
BL80007-BLK1	Blank	12/03/18
BL80007-BS1	LCS	12/03/18
BL80007-BSD1	LCS Dup	12/03/18

Batch ID: BL80020 **Preparation Method:** EPA 7473 water **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
18K1041-01	MW-1	12/03/18
18K1041-02	MW-2	12/03/18
18K1041-03	MW-3	12/03/18
18K1041-04	MW-4	12/03/18
18K1041-05	MW-4 DUP	12/03/18
18K1041-06	MW-5	12/03/18
18K1041-07	MW-6	12/03/18
18K1041-08	MW-7	12/03/18
18K1041-09	MW-8	12/03/18
18K1041-10	MW-9	12/03/18
18K1041-11	MW-10	12/03/18
18K1041-12	Field Blank	12/03/18
BL80020-BLK1	Blank	12/03/18
BL80020-SRM1	Reference	12/03/18

Batch ID: BL80092 **Preparation Method:** Analysis Preparation **Prepared By:** JTV

YORK Sample ID	Client Sample ID	Preparation Date
18K1041-01	MW-1	12/04/18
18K1041-02	MW-2	12/04/18
18K1041-03	MW-3	12/04/18
18K1041-04	MW-4	12/04/18
18K1041-05	MW-4 DUP	12/04/18
18K1041-06	MW-5	12/04/18
18K1041-07	MW-6	12/04/18
18K1041-08	MW-7	12/04/18
18K1041-09	MW-8	12/04/18
18K1041-10	MW-9	12/04/18
18K1041-11	MW-10	12/04/18
18K1041-12	Field Blank	12/04/18
BL80092-BLK1	Blank	12/04/18
BL80092-BS1	LCS	12/04/18



Batch ID: BL80131

Preparation Method: EPA 3015A

Prepared By: SY

YORK Sample ID	Client Sample ID	Preparation Date
18K1041-01	MW-1	12/04/18
18K1041-02	MW-2	12/04/18
18K1041-03	MW-3	12/04/18
18K1041-03RE1	MW-3	12/04/18
18K1041-04	MW-4	12/04/18
18K1041-05	MW-4 DUP	12/04/18
18K1041-06	MW-5	12/04/18
18K1041-06RE1	MW-5	12/04/18
18K1041-07	MW-6	12/04/18
18K1041-07RE1	MW-6	12/04/18
18K1041-08	MW-7	12/04/18
18K1041-08RE1	MW-7	12/04/18
18K1041-09	MW-8	12/04/18
18K1041-09RE1	MW-8	12/04/18
18K1041-10	MW-9	12/04/18
18K1041-10RE1	MW-9	12/04/18
18K1041-11	MW-10	12/04/18
18K1041-12	Field Blank	12/04/18
BL80131-BLK1	Blank	12/04/18
BL80131-BS1	LCS	12/04/18
BL80131-DUP1	Duplicate	12/04/18
BL80131-MS1	Matrix Spike	12/04/18

Batch ID: BL80132

Preparation Method: EPA 3015A

Prepared By: SY

YORK Sample ID	Client Sample ID	Preparation Date
18K1041-01	MW-1	12/04/18
18K1041-02	MW-2	12/04/18
18K1041-03	MW-3	12/04/18
18K1041-04	MW-4	12/04/18
18K1041-05	MW-4 DUP	12/04/18
18K1041-06	MW-5	12/04/18
18K1041-07	MW-6	12/04/18
18K1041-08	MW-7	12/04/18
18K1041-09	MW-8	12/04/18
18K1041-10	MW-9	12/04/18
18K1041-11	MW-10	12/04/18
18K1041-12	Field Blank	12/04/18
BL80132-BLK1	Blank	12/04/18
BL80132-BS1	LCS	12/04/18
BL80132-DUP1	Duplicate	12/04/18
BL80132-MS1	Matrix Spike	12/04/18

Batch ID: BL80195

Preparation Method: EPA 7473 water

Prepared By: SY

YORK Sample ID	Client Sample ID	Preparation Date
18K1041-01	MW-1	12/05/18
18K1041-02	MW-2	12/05/18



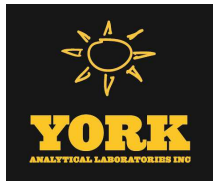
18K1041-03	MW-3	12/05/18
18K1041-04	MW-4	12/05/18
18K1041-05	MW-4 DUP	12/05/18
18K1041-06	MW-5	12/05/18
18K1041-07	MW-6	12/05/18
18K1041-08	MW-7	12/05/18
18K1041-09	MW-8	12/05/18
18K1041-10	MW-9	12/05/18
18K1041-11	MW-10	12/05/18
18K1041-12	Field Blank	12/05/18
BL80195-BLK1	Blank	12/05/18
BL80195-DUP1	Duplicate	12/05/18
BL80195-MS1	Matrix Spike	12/05/18
BL80195-SRM1	Reference	12/05/18

Batch ID: BL80211 **Preparation Method:** Analysis Preparation **Prepared By:** PAM

YORK Sample ID	Client Sample ID	Preparation Date
18K1041-01	MW-1	12/05/18
18K1041-02	MW-2	12/05/18
18K1041-03	MW-3	12/05/18
18K1041-04	MW-4	12/05/18
18K1041-05	MW-4 DUP	12/05/18
18K1041-06	MW-5	12/05/18
18K1041-07	MW-6	12/05/18
18K1041-08	MW-7	12/05/18
18K1041-09	MW-8	12/05/18
18K1041-10	MW-9	12/05/18
18K1041-11	MW-10	12/05/18
18K1041-12	Field Blank	12/05/18

Batch ID: See attached **Preparation Method:** EPA 3535A **Prepared By:**

YORK Sample ID	Client Sample ID	Preparation Date
18K1041-01	MW-1	11/28/18
18K1041-01	MW-1	11/28/18
18K1041-02	MW-2	11/28/18
18K1041-02	MW-2	11/28/18
18K1041-03	MW-3	11/28/18
18K1041-03	MW-3	11/28/18
18K1041-04	MW-4	11/27/18
18K1041-04	MW-4	11/27/18
18K1041-05	MW-4 DUP	11/27/18
18K1041-05	MW-4 DUP	11/27/18
18K1041-06	MW-5	11/28/18
18K1041-06	MW-5	11/28/18
18K1041-07	MW-6	11/27/18
18K1041-07	MW-6	11/27/18
18K1041-08	MW-7	11/27/18
18K1041-08	MW-7	11/27/18
18K1041-09	MW-8	11/27/18



18K1041-09	MW-8	11/27/18
18K1041-10	MW-9	11/27/18
18K1041-10	MW-9	11/27/18
18K1041-11	MW-10	11/27/18
18K1041-11	MW-10	11/27/18
18K1041-12	Field Blank	11/28/18
18K1041-12	Field Blank	11/28/18



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 Limit	Flag
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Batch BK81242 - EPA 5030B

Blank (BK81242-BLK1)

Prepared & Analyzed: 12/01/2018

1,1,1-Trichloroethane	ND	0.50	ug/L								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	80	"								
2-Butanone	ND	0.50	"								
Acetone	ND	2.0	"								
Benzene	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroform	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
Ethyl Benzene	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	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
sec-Butylbenzene	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>10.6</i>		<i>"</i>	<i>10.0</i>		<i>106</i>	<i>69-130</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>9.94</i>		<i>"</i>	<i>10.0</i>		<i>99.4</i>	<i>81-117</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>10.5</i>		<i>"</i>	<i>10.0</i>		<i>105</i>	<i>79-122</i>				



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 BK81242 - EPA 5030B

LCS (BK81242-BS1)

Prepared & Analyzed: 12/01/2018

1,1,1-Trichloroethane	10		ug/L	10.0		101	78-136				
1,1-Dichloroethane	12		"	10.0		116	82-129				
1,1-Dichloroethylene	12		"	10.0		122	68-138				
1,2,4-Trimethylbenzene	8.3		"	10.0		83.4	82-132				
1,2-Dichlorobenzene	10		"	10.0		101	79-123				
1,2-Dichloroethane	11		"	10.0		108	73-132				
1,3,5-Trimethylbenzene	8.6		"	10.0		85.5	80-131				
1,3-Dichlorobenzene	8.2		"	10.0		81.5	86-122	Low Bias			
1,4-Dichlorobenzene	8.2		"	10.0		82.5	85-124	Low Bias			
1,4-Dioxane	330		"	210		156	10-349				
2-Butanone	8.4		"	10.0		84.0	49-152				
Acetone	9.6		"	10.0		95.7	14-150				
Benzene	10		"	10.0		102	85-126				
Carbon tetrachloride	9.8		"	10.0		98.3	77-141				
Chlorobenzene	10		"	10.0		100	88-120				
Chloroform	11		"	10.0		106	82-128				
cis-1,2-Dichloroethylene	10		"	10.0		101	83-129				
Ethyl Benzene	10		"	10.0		104	80-131				
Methyl tert-butyl ether (MTBE)	11		"	10.0		108	76-135				
Methylene chloride	11		"	10.0		114	55-137				
Naphthalene	9.2		"	10.0		92.2	70-147				
n-Butylbenzene	9.6		"	10.0		95.9	79-132				
n-Propylbenzene	8.6		"	10.0		86.2	78-133				
o-Xylene	10		"	10.0		102	78-130				
p- & m- Xylenes	20		"	20.0		102	77-133				
sec-Butylbenzene	8.4		"	10.0		84.0	79-137				
tert-Butylbenzene	8.3		"	10.0		83.0	77-138				
Tetrachloroethylene	10		"	10.0		102	82-131				
Toluene	9.6		"	10.0		95.5	80-127				
trans-1,2-Dichloroethylene	11		"	10.0		110	80-132				
Trichloroethylene	9.6		"	10.0		96.0	82-128				
Vinyl Chloride	14		"	10.0		135	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	10.6		"	10.0		106	69-130				
Surrogate: SURR: Toluene-d8	9.63		"	10.0		96.3	81-117				
Surrogate: SURR: p-Bromofluorobenzene	8.61		"	10.0		86.1	79-122				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit			Result					RPD	Limit

Batch BK81242 - EPA 5030B

LCS Dup (BK81242-BSD1)

Prepared & Analyzed: 12/01/2018

1,1,1-Trichloroethane	10		ug/L	10.0		100	78-136			0.894	30
1,1-Dichloroethane	11		"	10.0		114	82-129			2.09	30
1,1-Dichloroethylene	12		"	10.0		118	68-138			3.51	30
1,2,4-Trimethylbenzene	9.1		"	10.0		91.1	82-132			8.83	30
1,2-Dichlorobenzene	9.3		"	10.0		92.7	79-123			8.17	30
1,2-Dichloroethane	10		"	10.0		101	73-132			6.52	30
1,3,5-Trimethylbenzene	8.0		"	10.0		80.4	80-131			6.15	30
1,3-Dichlorobenzene	9.1		"	10.0		90.8	86-122			10.8	30
1,4-Dichlorobenzene	9.4		"	10.0		93.9	85-124			12.9	30
1,4-Dioxane	300		"	210		141	10-349			9.96	30
2-Butanone	7.2		"	10.0		71.6	49-152			15.9	30
Acetone	9.4		"	10.0		94.1	14-150			1.69	30
Benzene	9.9		"	10.0		99.3	85-126			2.98	30
Carbon tetrachloride	9.7		"	10.0		97.0	77-141			1.33	30
Chlorobenzene	9.3		"	10.0		93.0	88-120			7.25	30
Chloroform	10		"	10.0		102	82-128			4.04	30
cis-1,2-Dichloroethylene	9.9		"	10.0		98.8	83-129			2.10	30
Ethyl Benzene	9.8		"	10.0		98.3	80-131			5.35	30
Methyl tert-butyl ether (MTBE)	10		"	10.0		101	76-135			7.56	30
Methylene chloride	11		"	10.0		108	55-137			6.04	30
Naphthalene	8.4		"	10.0		83.9	70-147			9.43	30
n-Butylbenzene	8.9		"	10.0		89.1	79-132			7.35	30
n-Propylbenzene	8.2		"	10.0		82.3	78-133			4.63	30
o-Xylene	9.9		"	10.0		99.0	78-130			3.08	30
p- & m- Xylenes	19		"	20.0		95.7	77-133			6.32	30
sec-Butylbenzene	9.3		"	10.0		93.1	79-137			10.3	30
tert-Butylbenzene	9.3		"	10.0		92.6	77-138			10.9	30
Tetrachloroethylene	9.5		"	10.0		95.3	82-131			6.99	30
Toluene	9.0		"	10.0		89.5	80-127			6.49	30
trans-1,2-Dichloroethylene	11		"	10.0		108	80-132			2.75	30
Trichloroethylene	8.9		"	10.0		88.7	82-128			7.90	30
Vinyl Chloride	13		"	10.0		132	58-145			2.32	30
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>10.9</i>		<i>"</i>	<i>10.0</i>		<i>109</i>	<i>69-130</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>9.60</i>		<i>"</i>	<i>10.0</i>		<i>96.0</i>	<i>81-117</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>8.74</i>		<i>"</i>	<i>10.0</i>		<i>87.4</i>	<i>79-122</i>				



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit								RPD	

Batch BK81517 - EPA 5030B

Blank (BK81517-BLK1)

Prepared: 11/30/2018 Analyzed: 12/01/2018

1,1,1-Trichloroethane	ND	0.50	ug/L								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	80	"								
2-Butanone	ND	0.50	"								
Acetone	ND	2.0	"								
Benzene	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroform	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
Ethyl Benzene	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	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
sec-Butylbenzene	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
<hr/>											
Surrogate: SURRE: 1,2-Dichloroethane-d4	10.9		"	10.0		109	69-130				
Surrogate: SURRE: Toluene-d8	9.69		"	10.0		96.9	81-117				
Surrogate: SURRE: p-Bromofluorobenzene	10.3		"	10.0		103	79-122				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	
		Limit								Units	Level

Batch BK81517 - EPA 5030B

LCS (BK81517-BS1)

Prepared: 11/30/2018 Analyzed: 12/01/2018

1,1,1-Trichloroethane	9.8		ug/L	10.0		98.2	78-136				
1,1-Dichloroethane	11		"	10.0		111	82-129				
1,1-Dichloroethylene	11		"	10.0		113	68-138				
1,2,4-Trimethylbenzene	9.3		"	10.0		93.0	82-132				
1,2-Dichlorobenzene	9.2		"	10.0		92.3	79-123				
1,2-Dichloroethane	10		"	10.0		104	73-132				
1,3,5-Trimethylbenzene	9.6		"	10.0		95.9	80-131				
1,3-Dichlorobenzene	9.0		"	10.0		90.2	86-122				
1,4-Dichlorobenzene	9.2		"	10.0		91.7	85-124				
1,4-Dioxane	270		"	210		127	10-349				
2-Butanone	10		"	10.0		101	49-152				
Acetone	8.7		"	10.0		87.2	14-150				
Benzene	9.8		"	10.0		97.8	85-126				
Carbon tetrachloride	9.4		"	10.0		93.6	77-141				
Chlorobenzene	9.4		"	10.0		94.5	88-120				
Chloroform	10		"	10.0		102	82-128				
cis-1,2-Dichloroethylene	10		"	10.0		100	83-129				
Ethyl Benzene	9.7		"	10.0		96.8	80-131				
Methyl tert-butyl ether (MTBE)	10		"	10.0		102	76-135				
Methylene chloride	10		"	10.0		104	55-137				
Naphthalene	11		"	10.0		108	70-147				
n-Butylbenzene	8.8		"	10.0		88.1	79-132				
n-Propylbenzene	9.6		"	10.0		96.2	78-133				
o-Xylene	9.6		"	10.0		96.2	78-130				
p- & m- Xylenes	19		"	20.0		95.1	77-133				
sec-Butylbenzene	9.2		"	10.0		92.2	79-137				
tert-Butylbenzene	9.2		"	10.0		91.7	77-138				
Tetrachloroethylene	9.1		"	10.0		91.0	82-131				
Toluene	9.0		"	10.0		89.7	80-127				
trans-1,2-Dichloroethylene	10		"	10.0		105	80-132				
Trichloroethylene	8.8		"	10.0		88.3	82-128				
Vinyl Chloride	9.6		"	10.0		95.5	58-145				
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>11.1</i>		<i>"</i>	<i>10.0</i>		<i>111</i>	<i>69-130</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>9.53</i>		<i>"</i>	<i>10.0</i>		<i>95.3</i>	<i>81-117</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>10.5</i>		<i>"</i>	<i>10.0</i>		<i>105</i>	<i>79-122</i>				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit							Units	Level

Batch BK81517 - EPA 5030B

LCS Dup (BK81517-BSD1)

Prepared: 11/30/2018 Analyzed: 12/01/2018

1,1,1-Trichloroethane	9.5		ug/L	10.0		95.3	78-136		3.00	30
1,1-Dichloroethane	11		"	10.0		109	82-129		1.46	30
1,1-Dichloroethylene	11		"	10.0		114	68-138		0.970	30
1,2,4-Trimethylbenzene	8.9		"	10.0		88.8	82-132		4.62	30
1,2-Dichlorobenzene	8.8		"	10.0		87.9	79-123		4.88	30
1,2-Dichloroethane	9.6		"	10.0		95.8	73-132		7.82	30
1,3,5-Trimethylbenzene	9.1		"	10.0		90.9	80-131		5.35	30
1,3-Dichlorobenzene	8.7		"	10.0		87.2	86-122		3.38	30
1,4-Dichlorobenzene	8.8		"	10.0		87.9	85-124		4.23	30
1,4-Dioxane	260		"	210		121	10-349		4.83	30
2-Butanone	8.7		"	10.0		87.4	49-152		14.1	30
Acetone	8.2		"	10.0		81.8	14-150		6.39	30
Benzene	9.4		"	10.0		94.1	85-126		3.86	30
Carbon tetrachloride	9.0		"	10.0		89.7	77-141		4.26	30
Chlorobenzene	8.9		"	10.0		88.7	88-120		6.33	30
Chloroform	9.7		"	10.0		96.7	82-128		5.14	30
cis-1,2-Dichloroethylene	9.5		"	10.0		95.1	83-129		5.02	30
Ethyl Benzene	9.2		"	10.0		91.9	80-131		5.19	30
Methyl tert-butyl ether (MTBE)	9.7		"	10.0		97.3	76-135		4.91	30
Methylene chloride	10		"	10.0		100	55-137		3.90	30
Naphthalene	10		"	10.0		99.6	70-147		8.37	30
n-Butylbenzene	8.7		"	10.0		86.7	79-132		1.60	30
n-Propylbenzene	9.3		"	10.0		92.6	78-133		3.81	30
o-Xylene	9.1		"	10.0		90.9	78-130		5.67	30
p- & m- Xylenes	18		"	20.0		90.2	77-133		5.29	30
sec-Butylbenzene	8.8		"	10.0		88.5	79-137		4.10	30
tert-Butylbenzene	9.1		"	10.0		91.1	77-138		0.656	30
Tetrachloroethylene	8.6		"	10.0		85.9	82-131		5.77	30
Toluene	8.5		"	10.0		85.3	80-127		5.03	30
trans-1,2-Dichloroethylene	10		"	10.0		100	80-132		4.20	30
Trichloroethylene	8.3		"	10.0		83.4	82-128		5.71	30
Vinyl Chloride	9.6		"	10.0		96.5	58-145		1.04	30
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>10.9</i>		<i>"</i>	<i>10.0</i>		<i>109</i>	<i>69-130</i>			
<i>Surrogate: SURR: Toluene-d8</i>	<i>9.38</i>		<i>"</i>	<i>10.0</i>		<i>93.8</i>	<i>81-117</i>			
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>10.5</i>		<i>"</i>	<i>10.0</i>		<i>105</i>	<i>79-122</i>			



Semivolatile 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 BK81481 - EPA 3510C

Blank (BK81481-BLK1)

Prepared: 11/29/2018 Analyzed: 12/03/2018

2-Methylphenol	ND	5.00	ug/L								
3- & 4-Methylphenols	ND	5.00	"								
Acenaphthene	ND	0.0500	"								
Acenaphthylene	ND	0.0500	"								
Anthracene	ND	0.0500	"								
Benzo(a)anthracene	ND	0.0500	"								
Benzo(a)pyrene	ND	0.0500	"								
Benzo(b)fluoranthene	ND	0.0500	"								
Benzo(g,h,i)perylene	ND	0.0500	"								
Benzo(k)fluoranthene	ND	0.0500	"								
Chrysene	ND	0.0500	"								
Dibenzo(a,h)anthracene	ND	0.0500	"								
Dibenzofuran	ND	5.00	"								
Fluoranthene	ND	0.0500	"								
Fluorene	ND	0.0500	"								
Hexachlorobenzene	ND	0.0200	"								
Indeno(1,2,3-cd)pyrene	ND	0.0500	"								
Naphthalene	ND	0.0500	"								
Pentachlorophenol	ND	0.250	"								
Phenanthrene	ND	0.0500	"								
Phenol	ND	5.00	"								
Pyrene	ND	0.0500	"								
<hr/>											
Surrogate: SURR: 2-Fluorophenol	20.4		"	50.0		40.7	19.7-63.1				
Surrogate: SURR: Phenol-d5	11.9		"	50.0		23.8	10.1-41.7				
Surrogate: SURR: Nitrobenzene-d5	19.4		"	25.0		77.5	50.2-113				
Surrogate: SURR: 2-Fluorobiphenyl	17.8		"	25.0		71.1	39.9-105				
Surrogate: SURR: 2,4,6-Tribromophenol	36.0		"	50.0		72.0	39.3-151				
Surrogate: SURR: Terphenyl-d14	25.3		"	25.0		101	30.7-106				



Semivolatile 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 BK81481 - EPA 3510C

Blank (BK81481-BLK2)

Prepared: 11/29/2018 Analyzed: 11/30/2018

Acenaphthene	ND	0.0500	ug/L								
Acenaphthylene	ND	0.0500	"								
Anthracene	ND	0.0500	"								
Benzo(a)anthracene	ND	0.0500	"								
Benzo(a)pyrene	ND	0.0500	"								
Benzo(b)fluoranthene	ND	0.0500	"								
Benzo(g,h,i)perylene	ND	0.0500	"								
Benzo(k)fluoranthene	ND	0.0500	"								
Chrysene	ND	0.0500	"								
Dibenzo(a,h)anthracene	ND	0.0500	"								
Fluoranthene	ND	0.0500	"								
Fluorene	ND	0.0500	"								
Hexachlorobenzene	ND	0.0200	"								
Indeno(1,2,3-cd)pyrene	ND	0.0500	"								
Naphthalene	ND	0.0500	"								
Pentachlorophenol	ND	0.250	"								
Phenanthrene	ND	0.0500	"								
Pyrene	ND	0.0500	"								

LCS (BK81481-BS1)

Prepared: 11/29/2018 Analyzed: 12/03/2018

2-Methylphenol	14.2	5.00	ug/L	25.0		56.7	10-90				
3- & 4-Methylphenols	13.3	5.00	"	25.0		53.2	10-101				
Acenaphthene	20.9	0.0500	"	25.0		83.7	24-114				
Acenaphthylene	20.9	0.0500	"	25.0		83.5	26-112				
Anthracene	23.2	0.0500	"	25.0		92.7	35-114				
Benzo(a)anthracene	25.3	0.0500	"	25.0		101	38-127				
Benzo(a)pyrene	26.0	0.0500	"	25.0		104	30-146				
Benzo(b)fluoranthene	24.4	0.0500	"	25.0		97.8	36-145				
Benzo(g,h,i)perylene	27.2	0.0500	"	25.0		109	10-163				
Benzo(k)fluoranthene	26.3	0.0500	"	25.0		105	16-149				
Chrysene	24.0	0.0500	"	25.0		95.8	33-120				
Dibenzo(a,h)anthracene	24.4	0.0500	"	25.0		97.6	10-149				
Dibenzofuran	19.2	5.00	"	25.0		76.8	42-105				
Fluoranthene	25.3	0.0500	"	25.0		101	33-126				
Fluorene	19.7	0.0500	"	25.0		78.8	28-117				
Hexachlorobenzene	20.0	0.0200	"	25.0		80.2	27-120				
Indeno(1,2,3-cd)pyrene	26.6	0.0500	"	25.0		106	10-150				
Naphthalene	24.0	0.0500	"	25.0		96.2	30-99				
Pentachlorophenol	21.4	0.250	"	25.0		85.8	19-127				
Phenanthrene	25.5	0.0500	"	25.0		102	31-112				
Phenol	9.34	5.00	"	25.0		37.4	10-37	High Bias			
Pyrene	26.2	0.0500	"	25.0		105	42-125				

Surrogate: SURR: 2-Fluorophenol	24.6		"	50.0		49.2	19.7-63.1				
Surrogate: SURR: Phenol-d5	15.3		"	50.0		30.6	10.1-41.7				
Surrogate: SURR: Nitrobenzene-d5	23.3		"	25.0		93.2	50.2-113				
Surrogate: SURR: 2-Fluorobiphenyl	19.7		"	25.0		78.8	39.9-105				
Surrogate: SURR: 2,4,6-Tribromophenol	39.3		"	50.0		78.6	39.3-151				
Surrogate: SURR: Terphenyl-d14	23.9		"	25.0		95.6	30.7-106				



Semivolatile 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 BK81481 - EPA 3510C

LCS (BK81481-BS2)

Prepared: 11/29/2018 Analyzed: 11/30/2018

Acenaphthene	0.770	0.0500	ug/L	1.00		77.0	24-114				
Acenaphthylene	0.730	0.0500	"	1.00		73.0	26-112				
Anthracene	0.830	0.0500	"	1.00		83.0	35-114				
Benzo(a)anthracene	0.840	0.0500	"	1.00		84.0	38-127				
Benzo(a)pyrene	0.860	0.0500	"	1.00		86.0	30-146				
Benzo(b)fluoranthene	0.870	0.0500	"	1.00		87.0	36-145				
Benzo(g,h,i)perylene	0.850	0.0500	"	1.00		85.0	10-163				
Benzo(k)fluoranthene	0.860	0.0500	"	1.00		86.0	16-149				
Chrysene	0.870	0.0500	"	1.00		87.0	33-120				
Dibenzo(a,h)anthracene	0.860	0.0500	"	1.00		86.0	10-149				
Fluoranthene	0.880	0.0500	"	1.00		88.0	33-126				
Fluorene	0.820	0.0500	"	1.00		82.0	28-117				
Hexachlorobenzene	0.750	0.0200	"	1.00		75.0	27-120				
Indeno(1,2,3-cd)pyrene	0.850	0.0500	"	1.00		85.0	10-150				
Naphthalene	0.780	0.0500	"	1.00		78.0	30-99				
Pentachlorophenol	0.600	0.250	"	1.00		60.0	19-127				
Phenanthrene	0.870	0.0500	"	1.00		87.0	31-112				
Pyrene	0.900	0.0500	"	1.00		90.0	42-125				

LCS Dup (BK81481-BSD1)

Prepared: 11/29/2018 Analyzed: 12/03/2018

2-Methylphenol	15.6	5.00	ug/L	25.0		62.6	10-90		9.86	20	
3- & 4-Methylphenols	12.9	5.00	"	25.0		51.6	10-101		3.13	20	
Acenaphthene	23.1	0.0500	"	25.0		92.2	24-114		9.73	20	
Acenaphthylene	23.1	0.0500	"	25.0		92.5	26-112		10.3	20	
Anthracene	23.8	0.0500	"	25.0		95.1	35-114		2.56	20	
Benzo(a)anthracene	27.1	0.0500	"	25.0		108	38-127		6.60	20	
Benzo(a)pyrene	28.9	0.0500	"	25.0		115	30-146		10.3	20	
Benzo(b)fluoranthene	26.9	0.0500	"	25.0		108	36-145		9.54	20	
Benzo(g,h,i)perylene	25.7	0.0500	"	25.0		103	10-163		5.71	20	
Benzo(k)fluoranthene	28.0	0.0500	"	25.0		112	16-149		6.18	20	
Chrysene	25.4	0.0500	"	25.0		101	33-120		5.76	20	
Dibenzo(a,h)anthracene	27.4	0.0500	"	25.0		110	10-149		11.6	20	
Dibenzofuran	23.6	5.00	"	25.0		94.4	42-105		20.6	20	Non-dir.
Fluoranthene	25.0	0.0500	"	25.0		99.8	33-126		1.35	20	
Fluorene	22.6	0.0500	"	25.0		90.5	28-117		13.7	20	
Hexachlorobenzene	20.8	0.0200	"	25.0		83.4	27-120		3.86	20	
Indeno(1,2,3-cd)pyrene	28.0	0.0500	"	25.0		112	10-150		5.13	20	
Naphthalene	25.6	0.0500	"	25.0		102	30-99	High Bias	6.21	20	
Pentachlorophenol	21.2	0.250	"	25.0		84.8	19-127		1.17	20	
Phenanthrene	25.9	0.0500	"	25.0		104	31-112		1.71	20	
Phenol	8.35	5.00	"	25.0		33.4	10-37		11.2	20	
Pyrene	28.8	0.0500	"	25.0		115	42-125		9.44	20	

Surrogate: SURR: 2-Fluorophenol	23.9		"	50.0		47.8	19.7-63.1				
Surrogate: SURR: Phenol-d5	14.4		"	50.0		28.8	10.1-41.7				
Surrogate: SURR: Nitrobenzene-d5	22.1		"	25.0		88.4	50.2-113				
Surrogate: SURR: 2-Fluorobiphenyl	22.8		"	25.0		91.0	39.9-105				
Surrogate: SURR: 2,4,6-Tribromophenol	40.2		"	50.0		80.5	39.3-151				
Surrogate: SURR: Terphenyl-d14	27.4		"	25.0		110	30.7-106				



Organochlorine Pesticides by GC/ECD - 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 BK81482 - EPA SW846-3510C Low Level

Blank (BK81482-BLK1)

Prepared: 11/29/2018 Analyzed: 12/02/2018

4,4'-DDD	ND	0.00400	ug/L								
4,4'-DDE	ND	0.00400	"								
4,4'-DDT	ND	0.00400	"								
Aldrin	ND	0.00400	"								
alpha-BHC	ND	0.00400	"								
alpha-Chlordane	ND	0.00400	"								
beta-BHC	ND	0.00400	"								
delta-BHC	ND	0.00400	"								
Dieldrin	ND	0.00200	"								
Endosulfan I	ND	0.00400	"								
Endosulfan II	ND	0.00400	"								
Endosulfan sulfate	ND	0.00400	"								
Endrin	ND	0.00400	"								
gamma-BHC (Lindane)	ND	0.00400	"								
Heptachlor	ND	0.00400	"								
Surrogate: Decachlorobiphenyl	0.155		"	0.201		77.0	30-150				
Surrogate: Tetrachloro-m-xylene	0.203		"	0.202		101	30-150				

LCS (BK81482-BS1)

Prepared: 11/29/2018 Analyzed: 12/02/2018

4,4'-DDD	0.0702	0.00400	ug/L	0.100		70.2	40-120				
4,4'-DDE	0.0922	0.00400	"	0.100		92.2	40-120				
4,4'-DDT	0.0539	0.00400	"	0.100		53.9	40-120				
Aldrin	0.0899	0.00400	"	0.100		89.9	40-120				
alpha-BHC	0.0935	0.00400	"	0.100		93.5	40-120				
alpha-Chlordane	0.0773	0.00400	"	0.100		77.3	40-120				
beta-BHC	0.0840	0.00400	"	0.100		84.0	40-120				
delta-BHC	0.0849	0.00400	"	0.100		84.9	40-120				
Dieldrin	0.0816	0.00200	"	0.100		81.6	40-120				
Endosulfan I	0.0472	0.00400	"	0.100		47.2	40-120				
Endosulfan II	0.0795	0.00400	"	0.100		79.5	40-120				
Endosulfan sulfate	0.0798	0.00400	"	0.100		79.8	40-120				
Endrin	0.0540	0.00400	"	0.100		54.0	40-120				
gamma-BHC (Lindane)	0.0869	0.00400	"	0.100		86.9	40-120				
Heptachlor	0.0708	0.00400	"	0.100		70.8	40-120				
Surrogate: Decachlorobiphenyl	0.130		"	0.201		64.5	30-150				
Surrogate: Tetrachloro-m-xylene	0.199		"	0.202		98.7	30-150				



Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit			Result					%REC	RPD

Batch BK81482 - EPA SW846-3510C Low Level

LCS Dup (BK81482-BSD1)

Prepared: 11/29/2018 Analyzed: 12/02/2018

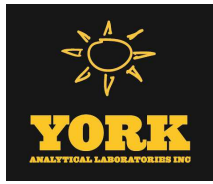
4,4'-DDD	0.0761	0.00400	ug/L	0.100		76.1	40-120			8.09	30
4,4'-DDE	0.0976	0.00400	"	0.100		97.6	40-120			5.68	30
4,4'-DDT	0.0598	0.00400	"	0.100		59.8	40-120			10.4	30
Aldrin	0.0911	0.00400	"	0.100		91.1	40-120			1.35	30
alpha-BHC	0.0938	0.00400	"	0.100		93.8	40-120			0.324	30
alpha-Chlordane	0.0796	0.00400	"	0.100		79.6	40-120			2.91	30
beta-BHC	0.0857	0.00400	"	0.100		85.7	40-120			2.06	30
delta-BHC	0.0872	0.00400	"	0.100		87.2	40-120			2.63	30
Dieldrin	0.0849	0.00200	"	0.100		84.9	40-120			3.97	30
Endosulfan I	0.0572	0.00400	"	0.100		57.2	40-120			19.2	30
Endosulfan II	0.0846	0.00400	"	0.100		84.6	40-120			6.21	30
Endosulfan sulfate	0.0864	0.00400	"	0.100		86.4	40-120			7.96	30
Endrin	0.0592	0.00400	"	0.100		59.2	40-120			9.24	30
gamma-BHC (Lindane)	0.0877	0.00400	"	0.100		87.7	40-120			0.971	30
Heptachlor	0.0732	0.00400	"	0.100		73.2	40-120			3.31	30
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.167</i>		<i>"</i>	<i>0.201</i>		<i>83.3</i>	<i>30-150</i>				
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.200</i>		<i>"</i>	<i>0.202</i>		<i>99.0</i>	<i>30-150</i>				



Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK81482 - EPA SW846-3510C Low Level											
Blank (BK81482-BLK2)										Prepared: 11/29/2018 Analyzed: 12/03/2018	
Aroclor 1016	ND	0.0500	ug/L								
Aroclor 1221	ND	0.0500	"								
Aroclor 1232	ND	0.0500	"								
Aroclor 1242	ND	0.0500	"								
Aroclor 1248	ND	0.0500	"								
Aroclor 1254	ND	0.0500	"								
Aroclor 1260	ND	0.0500	"								
Total PCBs	ND	0.0500	"								
<i>Surrogate: Tetrachloro-m-xylene</i>	0.215		"	0.202		106	30-120				
<i>Surrogate: Decachlorobiphenyl</i>	0.179		"	0.201		89.1	30-120				
LCS (BK81482-BS2)										Prepared: 11/29/2018 Analyzed: 12/03/2018	
Aroclor 1016	0.889	0.0500	ug/L	1.00		88.9	40-120				
Aroclor 1260	0.948	0.0500	"	1.00		94.8	40-120				
<i>Surrogate: Tetrachloro-m-xylene</i>	0.202		"	0.202		100	30-120				
<i>Surrogate: Decachlorobiphenyl</i>	0.142		"	0.201		70.6	30-120				
LCS Dup (BK81482-BSD2)										Prepared: 11/29/2018 Analyzed: 12/03/2018	
Aroclor 1016	0.890	0.0500	ug/L	1.00		89.0	40-120		0.112	30	
Aroclor 1260	1.01	0.0500	"	1.00		101	40-120		6.37	30	
<i>Surrogate: Tetrachloro-m-xylene</i>	0.206		"	0.202		102	30-120				
<i>Surrogate: Decachlorobiphenyl</i>	0.151		"	0.201		75.1	30-120				



Chlorinated Herbicides by GC/ECD - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL80007 - EPA 3535A											
Blank (BL80007-BLK1)											
						Prepared: 12/03/2018 Analyzed: 12/04/2018					
2,4,5-T	ND	5.00	ug/L								
2,4,5-TP (Silvex)	ND	5.00	"								
2,4-D	ND	5.00	"								
<i>Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)</i>	176		"	125		141	30-150				
LCS (BL80007-BS1)											
						Prepared: 12/03/2018 Analyzed: 12/04/2018					
2,4,5-T	24.5	5.00	ug/L	40.0		61.2	40-140				
2,4,5-TP (Silvex)	24.2	5.00	"	40.0		60.6	40-140				
2,4-D	25.5	5.00	"	40.0		63.8	40-140				
<i>Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)</i>	140		"	125		112	30-150				
LCS Dup (BL80007-BSD1)											
						Prepared: 12/03/2018 Analyzed: 12/04/2018					
2,4,5-T	22.8	5.00	ug/L	40.0		56.9	40-140	7.41	30		
2,4,5-TP (Silvex)	22.8	5.00	"	40.0		56.9	40-140	6.38	30		
2,4-D	24.0	5.00	"	40.0		60.0	40-140	6.06	30		
<i>Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)</i>	134		"	125		107	30-150				



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit								RPD	Limit

Batch BK81620 - EPA 3015A

Blank (BK81620-BLK1)

Prepared: 11/30/2018 Analyzed: 12/03/2018

Aluminum	ND	0.0556	mg/L
Barium	ND	0.0278	"
Calcium	ND	0.0556	"
Chromium	ND	0.00556	"
Cobalt	ND	0.00444	"
Copper	ND	0.0222	"
Iron	ND	0.278	"
Lead	ND	0.00556	"
Magnesium	ND	0.0556	"
Manganese	ND	0.00556	"
Nickel	ND	0.0111	"
Potassium	ND	0.0556	"
Silver	ND	0.00556	"
Sodium	ND	0.556	"
Vanadium	ND	0.0111	"
Zinc	ND	0.0278	"

LCS (BK81620-BS1)

Prepared: 11/30/2018 Analyzed: 12/03/2018

Aluminum	2.09	ug/mL	2.00	105	80-120
Barium	2.03	"	2.00	101	80-120
Calcium	1.01	"	1.00	101	80-120
Chromium	0.209	"	0.200	104	80-120
Cobalt	0.524	"	0.500	105	80-120
Copper	0.263	"	0.250	105	80-120
Iron	0.997	"	1.00	99.7	80-120
Lead	0.486	"	0.500	97.2	80-120
Magnesium	1.01	"	1.00	101	80-120
Manganese	0.516	"	0.500	103	80-120
Nickel	0.522	"	0.500	104	80-120
Potassium	1.04	"	1.00	104	80-120
Silver	0.0536	"	0.0500	107	80-120
Sodium	1.19	"	1.00	119	80-120
Vanadium	0.495	"	0.500	99.0	80-120
Zinc	0.482	"	0.500	96.5	80-120



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit								RPD	Limit

Batch BL80131 - EPA 3015A

Blank (BL80131-BLK1)

Prepared & Analyzed: 12/04/2018

Aluminum - Dissolved	ND	0.0556	mg/L
Barium - Dissolved	ND	0.0278	"
Calcium - Dissolved	ND	0.0556	"
Chromium - Dissolved	ND	0.00556	"
Cobalt - Dissolved	ND	0.00444	"
Copper - Dissolved	ND	0.0222	"
Iron - Dissolved	ND	0.278	"
Lead - Dissolved	ND	0.00556	"
Magnesium - Dissolved	ND	0.0556	"
Manganese - Dissolved	ND	0.00556	"
Nickel - Dissolved	ND	0.0111	"
Potassium - Dissolved	ND	0.0556	"
Silver - Dissolved	ND	0.00556	"
Sodium - Dissolved	ND	0.556	"
Vanadium - Dissolved	ND	0.0111	"
Zinc - Dissolved	ND	0.0278	"

LCS (BL80131-BS1)

Prepared & Analyzed: 12/04/2018

Aluminum - Dissolved	1.97	ug/mL	2.00	98.5	80-120
Barium - Dissolved	2.05	"	2.00	102	80-120
Calcium - Dissolved	0.984	"	1.00	98.4	80-120
Chromium - Dissolved	0.208	"	0.200	104	80-120
Cobalt - Dissolved	0.525	"	0.500	105	80-120
Copper - Dissolved	0.266	"	0.250	106	80-120
Iron - Dissolved	1.00	"	1.00	100	80-120
Lead - Dissolved	0.497	"	0.500	99.4	80-120
Magnesium - Dissolved	0.991	"	1.00	99.1	80-120
Manganese - Dissolved	0.513	"	0.500	103	80-120
Nickel - Dissolved	0.525	"	0.500	105	80-120
Potassium - Dissolved	0.956	"	1.00	95.6	80-120
Silver - Dissolved	0.0508	"	0.0500	102	80-120
Sodium - Dissolved	1.07	"	1.00	107	80-120
Vanadium - Dissolved	0.493	"	0.500	98.6	80-120
Zinc - Dissolved	0.483	"	0.500	96.7	80-120



Metals by ICP - 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 BL80131 - EPA 3015A

Duplicate (BL80131-DUP1)	*Source sample: 18K1041-12 (Field Blank)					Prepared & Analyzed: 12/04/2018						
Aluminum - Dissolved	ND	0.0556	mg/L		0.0707						20	
Barium - Dissolved	ND	0.0278	"		ND						20	
Calcium - Dissolved	ND	0.0556	"		ND						20	
Chromium - Dissolved	ND	0.00556	"		ND						20	
Cobalt - Dissolved	ND	0.00444	"		ND						20	
Copper - Dissolved	ND	0.0222	"		ND						20	
Iron - Dissolved	ND	0.278	"		ND						20	
Lead - Dissolved	ND	0.00556	"		ND						20	
Magnesium - Dissolved	ND	0.0556	"		ND						20	
Manganese - Dissolved	ND	0.00556	"		ND						20	
Nickel - Dissolved	ND	0.0111	"		ND						20	
Potassium - Dissolved	0.191	0.0556	"		0.820				124		20	Non-dir.
Silver - Dissolved	ND	0.00556	"		ND						20	
Sodium - Dissolved	0.732	0.556	"		1.73				80.9		20	Non-dir.
Vanadium - Dissolved	ND	0.0111	"		ND						20	
Zinc - Dissolved	ND	0.0278	"		ND						20	

Matrix Spike (BL80131-MS1)	*Source sample: 18K1041-12 (Field Blank)					Prepared & Analyzed: 12/04/2018						
Barium - Dissolved	2.25	0.0278	mg/L	2.22	ND	101	75-125					
Chromium - Dissolved	0.230	0.00556	"	0.222	ND	104	75-125					
Cobalt - Dissolved	0.577	0.00444	"	0.556	ND	104	75-125					
Copper - Dissolved	0.293	0.0222	"	0.278	ND	106	75-125					
Iron - Dissolved	1.07	0.278	"	1.11	ND	96.1	75-125					
Lead - Dissolved	0.538	0.00556	"	0.556	ND	96.8	75-125					
Manganese - Dissolved	0.564	0.00556	"	0.556	ND	102	75-125					
Nickel - Dissolved	0.573	0.0111	"	0.556	ND	103	75-125					
Silver - Dissolved	0.0576	0.00556	"	0.0556	ND	104	75-125					
Vanadium - Dissolved	0.542	0.0111	"	0.556	ND	97.6	75-125					
Zinc - Dissolved	0.535	0.0278	"	0.556	ND	96.3	75-125					



Metals by ICP/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit								RPD	Limit

Batch BK81619 - EPA 3015A

Blank (BK81619-BLK1)

Prepared: 11/30/2018 Analyzed: 12/05/2018

Antimony	ND	1.11	ug/L								
Arsenic	ND	1.11	"								
Beryllium	ND	0.333	"								
Cadmium	ND	0.556	"								
Selenium	ND	1.11	"								
Thallium	ND	1.11	"								

LCS (BK81619-BS1)

Prepared: 11/30/2018 Analyzed: 12/05/2018

Antimony	48.0		ug/L	50.0		96.0	80-120
Arsenic	49.6		"	50.0		99.2	80-120
Beryllium	46.7		"	50.0		93.4	80-120
Cadmium	46.5		"	50.0		93.0	80-120
Selenium	52.8		"	50.0		106	80-120
Thallium	46.7		"	50.0		93.4	80-120

Batch BL80132 - EPA 3015A

Blank (BL80132-BLK1)

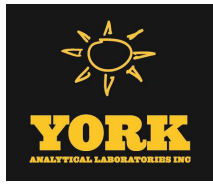
Prepared & Analyzed: 12/04/2018

Antimony - Dissolved	ND	1.11	ug/L				
Arsenic - Dissolved	ND	1.11	"				
Beryllium - Dissolved	ND	0.333	"				
Cadmium - Dissolved	ND	0.556	"				
Thallium - Dissolved	ND	1.11	"				

LCS (BL80132-BS1)

Prepared & Analyzed: 12/04/2018

Antimony - Dissolved	49.9		ug/L	50.0		99.7	80-120
Arsenic - Dissolved	45.6		"	50.0		91.3	80-120
Beryllium - Dissolved	46.5		"	50.0		93.0	80-120
Cadmium - Dissolved	50.1		"	50.0		100	80-120
Thallium - Dissolved	48.1		"	50.0		96.2	80-120



Metals by ICP/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Flag	RPD	RPD	Limit	Flag
		Limit		Level	Result		Limits		Limit			

Batch BL80132 - EPA 3015A

Duplicate (BL80132-DUP1)		*Source sample: 18K1041-12 (Field Blank)						Prepared & Analyzed: 12/04/2018				
Antimony - Dissolved	ND	1.11	ug/L		ND							20
Arsenic - Dissolved	ND	1.11	"		ND							20
Beryllium - Dissolved	ND	0.333	"		ND							20
Cadmium - Dissolved	ND	0.556	"		ND							20
Thallium - Dissolved	ND	1.11	"		ND							20
Matrix Spike (BL80132-MS1)		*Source sample: 18K1041-12 (Field Blank)						Prepared & Analyzed: 12/04/2018				
Antimony - Dissolved	44.9		ug/L	50.0	-0.005	89.8	75-125					
Arsenic - Dissolved	46.9		"	50.0	0.108	93.5	75-125					
Beryllium - Dissolved	49.5		"	50.0	-0.001	99.1	75-125					
Cadmium - Dissolved	48.3		"	50.0	-0.0008	96.7	75-125					
Thallium - Dissolved	54.9		"	50.0	-0.145	110	75-125					



Mercury by EPA 7000/200 Series Methods - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL80020 - EPA 7473 water											
Blank (BL80020-BLK1)										Prepared & Analyzed: 12/03/2018	
Mercury	ND	0.00020	mg/L								
Reference (BL80020-SRM1)										Prepared & Analyzed: 12/03/2018	
Mercury	0.0106		mg/L	0.0100		106	70-130				
Batch BL80195 - EPA 7473 water											
Blank (BL80195-BLK1)										Prepared & Analyzed: 12/05/2018	
Mercury - Dissolved	ND	0.0002000	mg/L								
Duplicate (BL80195-DUP1)										Prepared & Analyzed: 12/05/2018	
Mercury - Dissolved	ND	0.0002000	mg/L		ND						20
Matrix Spike (BL80195-MS1)										Prepared & Analyzed: 12/05/2018	
Mercury - Dissolved	0.008166		mg/L	0.0100	0.000	81.7	75-125				
Reference (BL80195-SRM1)										Prepared & Analyzed: 12/05/2018	
Mercury - Dissolved	0.01031		mg/L	0.0100		103	70-130				



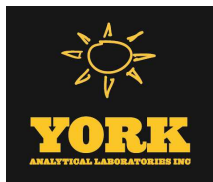
Wet Chemistry Parameters - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK81501 - Analysis Preparation											
Blank (BK81501-BLK1) Prepared & Analyzed: 11/29/2018											
Chromium, Hexavalent	ND	0.0100	mg/L								
LCS (BK81501-BS1) Prepared & Analyzed: 11/29/2018											
Chromium, Hexavalent	0.511	0.0100	mg/L	0.500		102	80-120				
Duplicate (BK81501-DUP1) Prepared & Analyzed: 11/29/2018											
*Source sample: 18K1041-01 (MW-1)											
Chromium, Hexavalent	ND	0.0100	mg/L		ND					20	
Matrix Spike (BK81501-MS1) Prepared & Analyzed: 11/29/2018											
*Source sample: 18K1041-01 (MW-1)											
Chromium, Hexavalent	0.391	0.0100	mg/L	0.500	ND	78.2	75-125				
Batch BL80092 - Analysis Preparation											
Blank (BL80092-BLK1) Prepared & Analyzed: 12/04/2018											
Cyanide, total	ND	0.0100	mg/L								
LCS (BL80092-BS1) Prepared & Analyzed: 12/04/2018											
Cyanide, total	0.158	0.0100	mg/L	0.200		79.1	76.2-107				



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
18K1041-01	MW-1	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18K1041-02	MW-2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18K1041-03	MW-3	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18K1041-04	MW-4	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18K1041-05	MW-4 DUP	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18K1041-06	MW-5	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18K1041-07	MW-6	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18K1041-08	MW-7	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18K1041-09	MW-8	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18K1041-10	MW-9	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18K1041-11	MW-10	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18K1041-12	Field Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18K1041-13	Trip Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

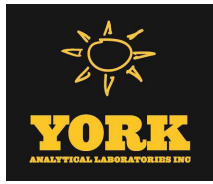


Sample and Data Qualifiers Relating to This Work Order

S-GC	Two surrogates are used for this analysis. One surrogate recovered within control limits therefore the analysis is acceptable.
See attach	See attached
S-08	The recovery of this surrogate was outside of QC limits.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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.
M-CRL	The RL check for this element recovered outside of control limits.
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.
HT-02	NON-COMPLIANT-This sample was received outside the EPA recommended holding time.
EXT-EM	The sample exhibited emulsion formation during the extraction process. This may affect surrogate recoveries.
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.



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Field Chain-of-Custody Record

YORK Project No.

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.

Page 1 of 2

YOUR INFORMATION		REPORT TO:		INVOICE TO:		YOUR PROJECT NUMBER		TURN-AROUND TIME	
Company: AESI	Company:	Address: same	Address:	Company: 37321-STX	Company:	Address: same	Address:	RUSH - Next Day	
Address: 5 MARINE VIEW PLAZA SUITE 401	Address:	Phone: 201-876-9400	Phone:	Address: 27-10 19TH AVE.	Address:	Phone:	Phone:	RUSH - Two Day	
Contact: YECMAS KELL	Contact:	E-mail: skell@nationsenvironmental.com	E-mail:	YOUR PROJECT NAME	YOUR PO#:			RUSH - Three Day	
Samples Collected by: (print your name above and sign below) A. Bas... [Signature]		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.		YOUR PROJECT NAME		YOUR PO#:		RUSH - Four Day	
				YOUR PROJECT NAME		YOUR PO#:		Standard (5-7 Day)	<input checked="" type="checkbox"/>
Sample Identification	Sample Matrix	Sample Matrix Codes	Samples From	Report / EDD Type (circle selections)	Analysis Requested	Container Description	YORK Reg. Comp.		
MW-1	GW	GW - groundwater	New York	Summary Report	375 Part: VOCs, SVOCs, PCBs, Residues,	glass	Compared to the following Regulation(s): (please fill in)		
MW-2		DW - drinking water	New Jersey	QA Report	TAL metals, includ. hex.chrom., PFAS.	plastic vials			
MW-3		WW - wastewater	Connecticut	NY ASP A Package					
MW-4		O - Oil	Pennsylvania	NY ASP B Package					
MW-4 DUP		Other	Other						
MW-5									
MW-6									
MW-7									
MW-8									
MW-9									
Comments:									
HCl <input checked="" type="checkbox"/> MeOH <input type="checkbox"/> HNO ₃ <input checked="" type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input checked="" type="checkbox"/> ZnAc <input type="checkbox"/> Ascorbic Acid <input type="checkbox"/> Other: <input type="checkbox"/>									
Samples Relinquished by / Company		Date/Time		Samples Relinquished by / Company		Date/Time		Special Instruction	
AESI		11/28/18 1412		D. J. York		11-28-18 1412		Field Filtered <input checked="" type="checkbox"/> Lab to Filter <input type="checkbox"/>	
AESI		11/28/18 1200		Schmid / York		11/28/18 3:05		Date/Time	
AESI		11/28/18 1918		A. Bas... / York		7 gpd 11-28-18 1918		Date/Time	
AESI		11/28/18 1918		A. Bas... / York		7 gpd 11-28-18 1918		Temp. Received at Lab	
AESI		11/28/18 1918		A. Bas... / York		7 gpd 11-28-18 1918		5.5	



York Analytical Laboratories, Inc.
 120 Research Drive
 Stratford, CT 06615
 clientservices@yorklab.com
 www.yorklab.com

Field Chain-of-Custody Record

YORK Project No.

Page 2 of 2

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.

YOUR INFORMATION		Report To:		Invoice To:		YOUR Project Number		Turn-Around Time			
Company: AEI	Company:	Address: same	Address:	Company:	Company:	37321-STX	Standard (5-7 Day) <input checked="" type="checkbox"/>	RUSH - Next Day			
Address: 5 Marine View Plaza Suite 401	Address:	Phone: same	Address:	Address: same	Address:	YOUR Project Name	RUSH - Two Day	RUSH - Three Day			
Phone: 201-876-9400	Phone:	Contact: SEGIMUS KELTY	Phone:	Phone: same	Phone:	27-10 49th Ave.	RUSH - Four Day	Standard (5-7 Day)			
Contact: SEGIMUS KELTY	Contact:	E-mail: SKELTY@SOLUTIONS-ENVIRONMENTAL.COM	Contact:	Contact: same	Contact:						
E-mail: SKELTY@SOLUTIONS-ENVIRONMENTAL.COM	E-mail:	<p>YOUR PO#:</p> <p>Report / EDD Type (circle selections)</p> <p>Summary Report <input type="checkbox"/> Standard Excel EDD <input type="checkbox"/></p> <p>QA Report <input type="checkbox"/> EQUIS (Standard) <input type="checkbox"/></p> <p>NY ASP A Package <input type="checkbox"/> NYSDEC EQUIS <input checked="" type="checkbox"/></p> <p>NY ASP B Package <input checked="" type="checkbox"/> NJDEP SRP HazSite <input type="checkbox"/></p> <p>Other: <input type="checkbox"/> NJDKQP <input type="checkbox"/></p>									
<p>Samples Collected by: (print your name above and sign below)</p> <p><i>A-13 is V-4) w/ A. Pugh</i></p>		<p>Matrix Codes</p> <p>S - soil / solid <input type="checkbox"/></p> <p><input checked="" type="checkbox"/> GW - groundwater</p> <p>DW - drinking water <input type="checkbox"/></p> <p>WW - wastewater <input type="checkbox"/></p> <p>O - Oil / Other <input type="checkbox"/></p>		<p>Samples From</p> <p>New York <input checked="" type="checkbox"/></p> <p>New Jersey <input type="checkbox"/></p> <p>Connecticut <input type="checkbox"/></p> <p>Pennsylvania <input type="checkbox"/></p> <p>Other <input type="checkbox"/></p>		<p>Report / EDD Type (circle selections)</p> <p>Summary Report <input type="checkbox"/> Standard Excel EDD <input type="checkbox"/></p> <p>QA Report <input type="checkbox"/> EQUIS (Standard) <input type="checkbox"/></p> <p>NY ASP A Package <input type="checkbox"/> NYSDEC EQUIS <input checked="" type="checkbox"/></p> <p>NY ASP B Package <input checked="" type="checkbox"/> NJDEP SRP HazSite <input type="checkbox"/></p> <p>Other: <input type="checkbox"/> NJDKQP <input type="checkbox"/></p>		<p>YORK Reg. Comp.</p> <p>Compared to the following Regulation(s): (please fill in)</p>		<p>Container Description</p>	
<p>Sample Identification</p> <p>MW-10</p> <p>Field Blank</p> <p>Triple Blank</p>		<p>Sample Matrix</p> <p>GW</p> <p>↓</p>		<p>Date/Time Sampled</p> <p>11/22/18 1635</p> <p>11/23/18 0905</p> <p>11/23/18 —</p>		<p>Analysis Requested</p> <p>PART 375: VOCs, SVOCs, PCBs, PESTICIDES, 96055 PEST</p> <p>TAL METALS, INCL. hex chrom, PFAAs, VIOs</p>		<p>YORK Reg. Comp.</p>		<p>Container Description</p>	
<p>Comments:</p> <p>Preservation: (check all that apply)</p> <p>HCl <input checked="" type="checkbox"/> MeOH <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input checked="" type="checkbox"/> ZnAc <input type="checkbox"/></p> <p>Ascorbic Acid <input type="checkbox"/> Other: <input type="checkbox"/></p>											
<p>Samples Relinquished by / Company</p> <p>REG G AEI</p>		<p>Date/Time</p> <p>11/28/18 1142</p>		<p>Samples Received by / Company</p> <p>D. J. Moell</p>		<p>Date/Time</p> <p>11/28/18 1142</p>		<p>Samples Relinquished by / Company</p> <p>D. J. Moell York</p>		<p>Date/Time</p> <p>11/28/18 1200</p>	
<p>Samples Relinquished by / Company</p> <p>SEGIMUS KELTY</p>		<p>Date/Time</p> <p>11/28/18 1400</p>		<p>Samples Received by / Company</p> <p>SEGIMUS KELTY</p>		<p>Date/Time</p> <p>11/28/18 1400</p>		<p>Samples Relinquished by / Company</p> <p>AEI</p>		<p>Date/Time</p> <p>11/28/18 3:05</p>	
<p>Samples Relinquished by / Company</p> <p>AEI</p>		<p>Date/Time</p> <p>11/28/18 1515</p>		<p>Samples Received by / Company</p> <p>AEI</p>		<p>Date/Time</p> <p>11/28/18 1515</p>		<p>Samples Relinquished by / Company</p> <p>AEI</p>		<p>Date/Time</p> <p>11/28/18 1515</p>	

December 13, 2018

Richard August
York Analytical Labs
120 Research Drive
Stratford, CT 06615

Project Location: 18K1041
Client Job Number:
Project Number: 18K1041
Laboratory Work Order Number: 18K1218

Enclosed are results of analyses for samples received by the laboratory on November 29, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Kerry K. McGee". The signature is written in a cursive, flowing style.

Kerry K. McGee
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

York Analytical Labs
 120 Research Drive
 Stratford, CT 06615
 ATTN: Richard August

REPORT DATE: 12/13/2018

PURCHASE ORDER NUMBER: 18K1041

PROJECT NUMBER: 18K1041

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18K1218

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 18K1041

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-1	18K1218-01	Water		SOP 434-PFAAS SW-846 8270D	
MW-2	18K1218-02	Water		SOP 434-PFAAS SW-846 8270D	
MW-3	18K1218-03	Water		SOP 434-PFAAS SW-846 8270D	
MW-4	18K1218-04	Water		SOP 434-PFAAS SW-846 8270D	
MW-4 DUP	18K1218-05	Water		SOP 434-PFAAS SW-846 8270D	
MW-5	18K1218-06	Water		SOP 434-PFAAS SW-846 8270D	
MW-6	18K1218-07	Water		SOP 434-PFAAS SW-846 8270D	
MW-7	18K1218-08	Water		SOP 434-PFAAS SW-846 8270D	
MW-8	18K1218-09	Water		SOP 434-PFAAS SW-846 8270D	
MW-9	18K1218-10	Water		SOP 434-PFAAS SW-846 8270D	
MW-10	18K1218-11	Water		SOP 434-PFAAS SW-846 8270D	
Field Blank	18K1218-12	Field Blank		SOP 434-PFAAS SW-846 8270D	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SOP 434-PFAAS

Qualifications:

O-29

Initial continuing calibration standard was within method criteria. Closing continuing calibration standard was outside of method criteria, biased on the high side. Reanalysis yielded similar non-conformance, matrix interference was confirmed.

Analyte & Samples(s) Qualified:

Perfluorodecanesulfonic acid (PFD)
S030157-CCV2

SW-846 8270D

Qualifications:

H-06

Sample was extracted past the recommended holding time.

Analyte & Samples(s) Qualified:

18K1218-04[MW-4], 18K1218-05[MW-4 DUP]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Tod E. Kopycinski
Laboratory Director

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K1041

Sample Description:

Work Order: 18K1218

Date Received: 11/29/2018

Field Sample #: MW-1

Sampled: 11/28/2018 10:01

Sample ID: 18K1218-01

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	1.1	0.21	µg/L	1		SW-846 8270D	12/5/18	12/7/18 15:39	CJM
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
1,4-Dioxane-d8	24.9		15-110					12/7/18 15:39	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K1041

Sample Description:

Work Order: 18K1218

Date Received: 11/29/2018

Field Sample #: MW-1

Sampled: 11/28/2018 10:01

Sample ID: 18K1218-01

Sample Matrix: Water

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	3.3	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 14:50	KAF
Perfluorohexanoic acid (PFHxA)	41	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 14:50	KAF
Perfluoroheptanoic acid (PFHpA)	89	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 14:50	KAF
Perfluorobutanoic acid (PFBA)	4.4	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 14:50	KAF
Perfluorodecanesulfonic acid (PFDS)	2.7	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 14:50	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 14:50	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 14:50	KAF
Perfluoropentanoic acid (PFPeA)	34	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 14:50	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	8.3	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 14:50	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 14:50	KAF
Perfluorohexanesulfonic acid (PFHxS)	2.9	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 14:50	KAF
Perfluorooctanoic acid (PFOA)	48	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 14:50	KAF
Perfluorooctanesulfonic acid (PFOS)	9.5	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 14:50	KAF
Perfluorononanoic acid (PFNA)	10	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 14:50	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 14:50	KAF
NMeFOSAA	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 14:50	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 14:50	KAF
NEtFOSAA	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 14:50	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 14:50	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 14:50	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 14:50	KAF
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
13C-PFHxA	85.1	70-130	12/12/18 14:50						
13C-PFDA	102	70-130	12/12/18 14:50						
d5-NEtFOSAA	105	70-130	12/12/18 14:50						

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K1041

Sample Description:

Work Order: 18K1218

Date Received: 11/29/2018

Sampled: 11/28/2018 09:26

Field Sample #: MW-2

Sample ID: 18K1218-02

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	1.2	0.20	µg/L	1		SW-846 8270D	12/5/18	12/7/18 15:59	CJM
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
1,4-Dioxane-d8	26.0		15-110					12/7/18 15:59	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K1041

Sample Description:

Work Order: 18K1218

Date Received: 11/29/2018

Field Sample #: MW-2

Sampled: 11/28/2018 09:26

Sample ID: 18K1218-02

Sample Matrix: Water

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	3.5	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:02	KAF
Perfluorohexanoic acid (PFHxA)	60	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:02	KAF
Perfluoroheptanoic acid (PFHpA)	31	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:02	KAF
Perfluorobutanoic acid (PFBA)	18	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:02	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:02	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:02	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:02	KAF
Perfluoropentanoic acid (PFPeA)	120	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:02	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	8.4	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:02	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:02	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:02	KAF
Perfluorooctanoic acid (PFOA)	21	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:02	KAF
Perfluorooctanesulfonic acid (PFOS)	4.0	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:02	KAF
Perfluorononanoic acid (PFNA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:02	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:02	KAF
NMeFOSAA	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:02	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:02	KAF
NEtFOSAA	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:02	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:02	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:02	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:02	KAF
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
13C-PFHxA	80.9	70-130	12/12/18 15:02						
13C-PFDA	103	70-130	12/12/18 15:02						
d5-NEtFOSAA	102	70-130	12/12/18 15:02						

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K1041

Sample Description:

Work Order: 18K1218

Date Received: 11/29/2018

Sampled: 11/28/2018 07:57

Field Sample #: MW-3

Sample ID: 18K1218-03

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.21	µg/L	1		SW-846 8270D	12/5/18	12/7/18 16:18	CJM
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
1,4-Dioxane-d8	25.7		15-110					12/7/18 16:18	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K1041

Sample Description:

Work Order: 18K1218

Date Received: 11/29/2018

Field Sample #: MW-3

Sampled: 11/28/2018 07:57

Sample ID: 18K1218-03

Sample Matrix: Water

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	4.3	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:15	KAF
Perfluorohexanoic acid (PFHxA)	26	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:15	KAF
Perfluoroheptanoic acid (PFHpA)	10	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:15	KAF
Perfluorobutanoic acid (PFBA)	5.7	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:15	KAF
Perfluorodecanesulfonic acid (PFDS)	4.5	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:15	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:15	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:15	KAF
Perfluoropentanoic acid (PFPeA)	27	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:15	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:15	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:15	KAF
Perfluorohexanesulfonic acid (PFHxS)	4.2	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:15	KAF
Perfluorooctanoic acid (PFOA)	26	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:15	KAF
Perfluorooctanesulfonic acid (PFOS)	15	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:15	KAF
Perfluorononanoic acid (PFNA)	2.8	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:15	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:15	KAF
NMeFOSAA	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:15	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:15	KAF
NEtFOSAA	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:15	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:15	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:15	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:15	KAF
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
13C-PFHxA	70.7	70-130	12/12/18 15:15						
13C-PFDA	91.2	70-130	12/12/18 15:15						
d5-NEtFOSAA	96.9	70-130	12/12/18 15:15						

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Project Location: 18K1041

Sample Description:

Work Order: 18K1218

Date Received: 11/29/2018

Field Sample #: MW-4

Sampled: 11/27/2018 14:30

Sample ID: 18K1218-04

Sample Matrix: Water

Sample Flags: H-06

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	1.0	0.20	µg/L	1		SW-846 8270D	12/5/18	12/7/18 16:38	CJM
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
1,4-Dioxane-d8	26.5		15-110					12/7/18 16:38	

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Project Location: 18K1041

Sample Description:

Work Order: 18K1218

Date Received: 11/29/2018

Field Sample #: MW-4

Sampled: 11/27/2018 14:30

Sample ID: 18K1218-04

Sample Matrix: Water

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	10	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:28	KAF
Perfluorohexanoic acid (PFHxA)	22	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:28	KAF
Perfluoroheptanoic acid (PFHpA)	24	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:28	KAF
Perfluorobutanoic acid (PFBA)	4.1	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:28	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:28	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:28	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:28	KAF
Perfluoropentanoic acid (PFPeA)	43	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:28	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	2.6	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:28	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:28	KAF
Perfluorohexanesulfonic acid (PFHxS)	2.1	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:28	KAF
Perfluorooctanoic acid (PFOA)	24	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:28	KAF
Perfluorooctanesulfonic acid (PFOS)	9.6	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:28	KAF
Perfluorononanoic acid (PFNA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:28	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:28	KAF
NMeFOSAA	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:28	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:28	KAF
NEtFOSAA	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:28	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:28	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:28	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:28	KAF
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
13C-PFHxA	76.9	70-130	12/12/18 15:28						
13C-PFDA	95.6	70-130	12/12/18 15:28						
d5-NEtFOSAA	98.9	70-130	12/12/18 15:28						

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Project Location: 18K1041

Sample Description:

Work Order: 18K1218

Date Received: 11/29/2018

Field Sample #: MW-4 DUP

Sampled: 11/27/2018 14:30

Sample ID: 18K1218-05

Sample Matrix: Water

Sample Flags: H-06

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.97	0.20	µg/L	1		SW-846 8270D	12/5/18	12/7/18 16:57	CJM
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
1,4-Dioxane-d8	24.8		15-110					12/7/18 16:57	

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Project Location: 18K1041

Sample Description:

Work Order: 18K1218

Date Received: 11/29/2018

Field Sample #: MW-4 DUP

Sampled: 11/27/2018 14:30

Sample ID: 18K1218-05

Sample Matrix: Water

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	5.3	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:41	KAF
Perfluorohexanoic acid (PFHxA)	23	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:41	KAF
Perfluoroheptanoic acid (PFHpA)	26	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:41	KAF
Perfluorobutanoic acid (PFBA)	3.4	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:41	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:41	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:41	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:41	KAF
Perfluoropentanoic acid (PFPeA)	37	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:41	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	2.0	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:41	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:41	KAF
Perfluorohexanesulfonic acid (PFHxS)	3.5	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:41	KAF
Perfluorooctanoic acid (PFOA)	25	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:41	KAF
Perfluorooctanesulfonic acid (PFOS)	8.3	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:41	KAF
Perfluorononanoic acid (PFNA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:41	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:41	KAF
NMeFOSAA	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:41	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:41	KAF
NEtFOSAA	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:41	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:41	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:41	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:41	KAF
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
13C-PFHxA	78.7	70-130	12/12/18 15:41						
13C-PFDA	97.0	70-130	12/12/18 15:41						
d5-NEtFOSAA	91.5	70-130	12/12/18 15:41						

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Project Location: 18K1041

Sample Description:

Work Order: 18K1218

Date Received: 11/29/2018

Field Sample #: MW-5

Sampled: 11/28/2018 07:28

Sample ID: 18K1218-06

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.20	µg/L	1		SW-846 8270D	12/4/18	12/7/18 12:24	CJM
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
1,4-Dioxane-d8	22.9		15-110					12/7/18 12:24	

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Project Location: 18K1041

Sample Description:

Work Order: 18K1218

Date Received: 11/29/2018

Field Sample #: MW-5

Sampled: 11/28/2018 07:28

Sample ID: 18K1218-06

Sample Matrix: Water

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:53	KAF
Perfluorohexanoic acid (PFHxA)	9.2	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:53	KAF
Perfluoroheptanoic acid (PFHpA)	5.6	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:53	KAF
Perfluorobutanoic acid (PFBA)	7.7	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:53	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:53	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:53	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:53	KAF
Perfluoropentanoic acid (PFPeA)	16	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:53	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:53	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:53	KAF
Perfluorohexanesulfonic acid (PFHxS)	3.0	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:53	KAF
Perfluorooctanoic acid (PFOA)	18	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:53	KAF
Perfluorooctanesulfonic acid (PFOS)	12	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:53	KAF
Perfluorononanoic acid (PFNA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:53	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:53	KAF
NMeFOSAA	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:53	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:53	KAF
NEtFOSAA	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:53	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:53	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:53	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 15:53	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		78.9	70-130					12/12/18 15:53	
13C-PFDA		90.5	70-130					12/12/18 15:53	
d5-NEtFOSAA		85.7	70-130					12/12/18 15:53	

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Project Location: 18K1041

Sample Description:

Work Order: 18K1218

Date Received: 11/29/2018

Field Sample #: MW-6

Sampled: 11/27/2018 16:28

Sample ID: 18K1218-07

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.20	µg/L	1		SW-846 8270D	12/4/18	12/7/18 12:44	CJM
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
1,4-Dioxane-d8	24.2		15-110					12/7/18 12:44	

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Project Location: 18K1041

Sample Description:

Work Order: 18K1218

Date Received: 11/29/2018

Field Sample #: MW-6

Sampled: 11/27/2018 16:28

Sample ID: 18K1218-07

Sample Matrix: Water

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	2.5	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:06	KAF
Perfluorohexanoic acid (PFHxA)	5.3	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:06	KAF
Perfluoroheptanoic acid (PFHpA)	3.5	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:06	KAF
Perfluorobutanoic acid (PFBA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:06	KAF
Perfluorodecanesulfonic acid (PFDS)	16	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:06	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:06	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:06	KAF
Perfluoropentanoic acid (PFPeA)	7.6	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:06	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:06	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:06	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:06	KAF
Perfluorooctanoic acid (PFOA)	11	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:06	KAF
Perfluorooctanesulfonic acid (PFOS)	8.2	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:06	KAF
Perfluorononanoic acid (PFNA)	3.0	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:06	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:06	KAF
NMeFOSAA	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:06	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:06	KAF
NEtFOSAA	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:06	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:06	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:06	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:06	KAF
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
13C-PFHxA	92.7	70-130	12/12/18 16:06						
13C-PFDA	96.3	70-130	12/12/18 16:06						
d5-NEtFOSAA	100	70-130	12/12/18 16:06						

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Project Location: 18K1041

Sample Description:

Work Order: 18K1218

Date Received: 11/29/2018

Field Sample #: MW-7

Sampled: 11/27/2018 11:12

Sample ID: 18K1218-08

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.20	µg/L	1		SW-846 8270D	12/4/18	12/7/18 13:03	CJM
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
1,4-Dioxane-d8	22.8		15-110					12/7/18 13:03	

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Project Location: 18K1041

Sample Description:

Work Order: 18K1218

Date Received: 11/29/2018

Field Sample #: MW-7

Sampled: 11/27/2018 11:12

Sample ID: 18K1218-08

Sample Matrix: Water

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	3.8	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:19	KAF
Perfluorohexanoic acid (PFHxA)	6.3	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:19	KAF
Perfluoroheptanoic acid (PFHpA)	3.5	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:19	KAF
Perfluorobutanoic acid (PFBA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:19	KAF
Perfluorodecanesulfonic acid (PFDS)	17	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:19	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:19	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:19	KAF
Perfluoropentanoic acid (PFPeA)	8.5	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:19	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:19	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:19	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:19	KAF
Perfluorooctanoic acid (PFOA)	10	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:19	KAF
Perfluorooctanesulfonic acid (PFOS)	6.3	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:19	KAF
Perfluorononanoic acid (PFNA)	2.1	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:19	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:19	KAF
NMeFOSAA	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:19	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:19	KAF
NEtFOSAA	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:19	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:19	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:19	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:19	KAF
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
13C-PFHxA	96.4	70-130	12/12/18 16:19						
13C-PFDA	87.0	70-130	12/12/18 16:19						
d5-NEtFOSAA	104	70-130	12/12/18 16:19						

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Project Location: 18K1041

Sample Description:

Work Order: 18K1218

Date Received: 11/29/2018

Field Sample #: MW-8

Sampled: 11/27/2018 17:10

Sample ID: 18K1218-09

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.20	µg/L	1		SW-846 8270D	12/4/18	12/7/18 13:23	CJM
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
1,4-Dioxane-d8	22.7		15-110					12/7/18 13:23	

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Project Location: 18K1041

Sample Description:

Work Order: 18K1218

Date Received: 11/29/2018

Field Sample #: MW-8

Sampled: 11/27/2018 17:10

Sample ID: 18K1218-09

Sample Matrix: Water

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	2.5	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:32	KAF
Perfluorohexanoic acid (PFHxA)	8.7	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:32	KAF
Perfluoroheptanoic acid (PFHpA)	6.6	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:32	KAF
Perfluorobutanoic acid (PFBA)	4.9	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:32	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:32	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:32	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:32	KAF
Perfluoropentanoic acid (PFPeA)	13	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:32	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:32	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:32	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:32	KAF
Perfluorooctanoic acid (PFOA)	20	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:32	KAF
Perfluorooctanesulfonic acid (PFOS)	7.9	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:32	KAF
Perfluorononanoic acid (PFNA)	2.3	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:32	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:32	KAF
NMeFOSAA	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:32	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:32	KAF
NEtFOSAA	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:32	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:32	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:32	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:32	KAF
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
13C-PFHxA	91.2	70-130	12/12/18 16:32						
13C-PFDA	102	70-130	12/12/18 16:32						
d5-NEtFOSAA	93.3	70-130	12/12/18 16:32						

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Project Location: 18K1041

Sample Description:

Work Order: 18K1218

Date Received: 11/29/2018

Field Sample #: MW-9

Sampled: 11/27/2018 15:56

Sample ID: 18K1218-10

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.88	0.20	µg/L	1		SW-846 8270D	12/4/18	12/7/18 13:42	CJM
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
1,4-Dioxane-d8	23.1		15-110					12/7/18 13:42	

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Project Location: 18K1041

Sample Description:

Work Order: 18K1218

Date Received: 11/29/2018

Field Sample #: MW-9

Sampled: 11/27/2018 15:56

Sample ID: 18K1218-10

Sample Matrix: Water

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	7.5	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:44	KAF
Perfluorohexanoic acid (PFHxA)	86	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:44	KAF
Perfluoroheptanoic acid (PFHpA)	200	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:44	KAF
Perfluorobutanoic acid (PFBA)	15	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:44	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:44	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:44	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:44	KAF
Perfluoropentanoic acid (PFPeA)	62	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:44	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:44	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:44	KAF
Perfluorohexanesulfonic acid (PFHxS)	3.4	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:44	KAF
Perfluorooctanoic acid (PFOA)	110	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:44	KAF
Perfluorooctanesulfonic acid (PFOS)	12	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:44	KAF
Perfluorononanoic acid (PFNA)	12	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:44	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:44	KAF
NMeFOSAA	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:44	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:44	KAF
NEtFOSAA	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:44	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:44	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:44	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/12/18 16:44	KAF
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
13C-PFHxA	82.9	70-130	12/12/18 16:44						
13C-PFDA	91.8	70-130	12/12/18 16:44						
d5-NEtFOSAA	91.7	70-130	12/12/18 16:44						

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Project Location: 18K1041

Sample Description:

Work Order: 18K1218

Date Received: 11/29/2018

Field Sample #: MW-10

Sampled: 11/27/2018 16:35

Sample ID: 18K1218-11

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.21	0.20	µg/L	1		SW-846 8270D	12/4/18	12/7/18 14:02	CJM
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
1,4-Dioxane-d8	24.7		15-110					12/7/18 14:02	

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Project Location: 18K1041

Sample Description:

Work Order: 18K1218

Date Received: 11/29/2018

Field Sample #: MW-10

Sampled: 11/27/2018 16:35

Sample ID: 18K1218-11

Sample Matrix: Water

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	24	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/11/18 21:09	KAF
Perfluorohexanoic acid (PFHxA)	15	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/11/18 21:09	KAF
Perfluoroheptanoic acid (PFHpA)	22	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/11/18 21:09	KAF
Perfluorobutanoic acid (PFBA)	6.2	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/11/18 21:09	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/11/18 21:09	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/11/18 21:09	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/11/18 21:09	KAF
Perfluoropentanoic acid (PFPeA)	12	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/11/18 21:09	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/11/18 21:09	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/11/18 21:09	KAF
Perfluorohexanesulfonic acid (PFHxS)	6.3	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/11/18 21:09	KAF
Perfluorooctanoic acid (PFOA)	14	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/11/18 21:09	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/11/18 21:09	KAF
Perfluorononanoic acid (PFNA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/11/18 21:09	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/11/18 21:09	KAF
NMeFOSAA	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/11/18 21:09	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/11/18 21:09	KAF
NEtFOSAA	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/11/18 21:09	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/11/18 21:09	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/11/18 21:09	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/11/18 21:09	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		74.4	70-130					12/11/18 21:09	
13C-PFDA		102	70-130					12/11/18 21:09	
d5-NEtFOSAA		81.7	70-130					12/11/18 21:09	

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Project Location: 18K1041

Sample Description:

Work Order: 18K1218

Date Received: 11/29/2018

Field Sample #: Field Blank

Sampled: 11/28/2018 09:05

Sample ID: 18K1218-12

Sample Matrix: Field Blank

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.20	µg/L	1		SW-846 8270D	12/4/18	12/7/18 14:21	CJM
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
1,4-Dioxane-d8	23.7		15-110					12/7/18 14:21	

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Project Location: 18K1041

Sample Description:

Work Order: 18K1218

Date Received: 11/29/2018

Field Sample #: Field Blank

Sampled: 11/28/2018 09:05

Sample ID: 18K1218-12

Sample Matrix: Field Blank

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/11/18 21:22	KAF
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/11/18 21:22	KAF
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/11/18 21:22	KAF
Perfluorobutanoic acid (PFBA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/11/18 21:22	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/11/18 21:22	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/11/18 21:22	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/11/18 21:22	KAF
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/11/18 21:22	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/11/18 21:22	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/11/18 21:22	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/11/18 21:22	KAF
Perfluorooctanoic acid (PFOA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/11/18 21:22	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/11/18 21:22	KAF
Perfluorononanoic acid (PFNA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/11/18 21:22	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/11/18 21:22	KAF
NMeFOSAA	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/11/18 21:22	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/11/18 21:22	KAF
NEtFOSAA	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/11/18 21:22	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/11/18 21:22	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/11/18 21:22	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L	1		SOP 434-PFAAS	12/3/18	12/11/18 21:22	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		105	70-130					12/11/18 21:22	
13C-PFDA		80.2	70-130					12/11/18 21:22	
d5-NEtFOSAA		104	70-130					12/11/18 21:22	

Sample Extraction Data

Prep Method: EPA 537-SOP 434-PFAAS

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18K1218-01 [MW-1]	B218101	250	1.00	12/03/18
18K1218-02 [MW-2]	B218101	250	1.00	12/03/18
18K1218-03 [MW-3]	B218101	250	1.00	12/03/18
18K1218-04 [MW-4]	B218101	250	1.00	12/03/18
18K1218-05 [MW-4 DUP]	B218101	250	1.00	12/03/18
18K1218-06 [MW-5]	B218101	250	1.00	12/03/18
18K1218-07 [MW-6]	B218101	250	1.00	12/03/18
18K1218-08 [MW-7]	B218101	250	1.00	12/03/18
18K1218-09 [MW-8]	B218101	250	1.00	12/03/18
18K1218-10 [MW-9]	B218101	250	1.00	12/03/18
18K1218-11 [MW-10]	B218101	250	1.00	12/03/18
18K1218-12 [Field Blank]	B218101	250	1.00	12/03/18

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18K1218-06 [MW-5]	B218405	990	1.00	12/04/18
18K1218-07 [MW-6]	B218405	990	1.00	12/04/18
18K1218-08 [MW-7]	B218405	980	1.00	12/04/18
18K1218-09 [MW-8]	B218405	990	1.00	12/04/18
18K1218-10 [MW-9]	B218405	990	1.00	12/04/18
18K1218-11 [MW-10]	B218405	1000	1.00	12/04/18
18K1218-12 [Field Blank]	B218405	1000	1.00	12/04/18

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18K1218-01 [MW-1]	B218494	970	1.00	12/05/18
18K1218-02 [MW-2]	B218494	990	1.00	12/05/18
18K1218-03 [MW-3]	B218494	970	1.00	12/05/18
18K1218-04 [MW-4]	B218494	1000	1.00	12/05/18
18K1218-05 [MW-4 DUP]	B218494	1010	1.00	12/05/18

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QUALITY CONTROL

1,4-Dioxane by isotope dilution GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B218405 - SW-846 3510C										
Blank (B218405-BLK1)										
				Prepared: 12/04/18 Analyzed: 12/07/18						
1,4-Dioxane	ND	0.20	µg/L							
Surrogate: 1,4-Dioxane-d8	2.92		µg/L	10.0		29.2	15-110			
LCS (B218405-BS1)										
				Prepared: 12/04/18 Analyzed: 12/07/18						
1,4-Dioxane	10.9	0.20	µg/L	10.0		109	40-140			
Surrogate: 1,4-Dioxane-d8	2.61		µg/L	10.0		26.1	15-110			
LCS Dup (B218405-BSD1)										
				Prepared: 12/04/18 Analyzed: 12/07/18						
1,4-Dioxane	10.9	0.20	µg/L	10.0		109	40-140	0.239	30	
Surrogate: 1,4-Dioxane-d8	2.42		µg/L	10.0		24.2	15-110			
Batch B218494 - SW-846 3510C										
Blank (B218494-BLK1)										
				Prepared: 12/05/18 Analyzed: 12/07/18						
1,4-Dioxane	ND	0.20	µg/L							
Surrogate: 1,4-Dioxane-d8	3.82		µg/L	10.0		38.2	15-110			
LCS (B218494-BS1)										
				Prepared: 12/05/18 Analyzed: 12/07/18						
1,4-Dioxane	10.3	0.20	µg/L	10.0		103	40-140			
Surrogate: 1,4-Dioxane-d8	3.17		µg/L	10.0		31.7	15-110			
LCS Dup (B218494-BSD1)										
				Prepared: 12/05/18 Analyzed: 12/07/18						
1,4-Dioxane	10.8	0.20	µg/L	10.0		108	40-140	4.88	30	
Surrogate: 1,4-Dioxane-d8	3.06		µg/L	10.0		30.6	15-110			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by - GC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B218101 - EPA 537										
Blank (B218101-BLK1)										
					Prepared: 12/03/18 Analyzed: 12/06/18					
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorobutanoic acid (PFBA)	ND	2.0	ng/L							
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	ng/L							
Perfluorooctanesulfonamide (FOSA)	ND	2.0	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0	ng/L							
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L							
Perfluorooctanoic acid (PFOA)	ND	2.0	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/L							
Perfluorononanoic acid (PFNA)	ND	2.0	ng/L							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
NMeFOSAA	ND	2.0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
NEtFOSAA	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
Surrogate: 13C-PFHxA	42.2		ng/L	40.0		106	70-130			
Surrogate: 13C-PFDA	35.4		ng/L	40.0		88.6	70-130			
Surrogate: d5-NEtFOSAA	122		ng/L	160		76.4	70-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
H-06	Sample was extracted past the recommended holding time.
O-29	Initial continuing calibration standard was within method criteria. Closing continuing calibration standard was outside of method criteria, biased on the high side. Reanalysis yielded similar non-conformance, matrix interference was confirmed.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SOP 434-PFAAS in Water	
Perfluorobutanesulfonic acid (PFBS)	NH-P
Perfluorohexanoic acid (PFHxA)	NH-P
Perfluoroheptanoic acid (PFHpA)	NH-P
Perfluorobutanoic acid (PFBA)	NH-P
Perfluoropentanoic acid (PFPeA)	NH-P
6:2 Fluorotelomersulfonate (6:2 FTS)	NH-P
8:2 Fluorotelomersulfonate (8:2 FTS)	NH-P
Perfluorohexanesulfonic acid (PFHxS)	NH-P
Perfluorooctanoic acid (PFOA)	NH-P
Perfluorooctanesulfonic acid (PFOS)	NH-P
Perfluorononanoic acid (PFNA)	NH-P
Perfluorodecanoic acid (PFDA)	NH-P
NMeFOSAA	NH-P
Perfluoroundecanoic acid (PFUnA)	NH-P
NEtFOSAA	NH-P
Perfluorododecanoic acid (PFDoA)	NH-P
Perfluorotridecanoic acid (PFTrDA)	NH-P
Perfluorotetradecanoic acid (PFTA)	NH-P

SW-846 8270D in Water

1,4-Dioxane	NY
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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2019
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

18K1218

YORK

Analytical Laboratories, Inc.

11/28/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody

York Project No.: 18K1041

This information is being sent to inform you that York intends to subcontract certain samples to another licensed laboratory for specific parameters that we cannot perform in-house. The specific parameters that will be subcontracted are detailed below. Do not contact the subcontract laboratory directly. Please contact the YORK project manager for further information.

Note: E-mail lab reports to: York_Lab_Report@yorklab.com Mail/Fax Hard Copies to: York Analytical at the address below

SENDING LABORATORY:

York Analytical Laboratories, Inc.
120 Research Drive
Stratford, CT 06615
Phone: 203.325.1371
Fax: 203.357.0166
Contact: York Analytical

RECEIVING LABORATORY:

Con-Test Analytical Laboratory
39 Spruce Street
East Long Meadow, MA 01028
Phone : (413) 525-2332
Fax: (413) 525-6405

York Ref: 18K1041-01

Sample ID: MW-1

Matrix: Water

Date Sampled : 11/23/2018 10:01

Analysis Needed	Date Due	Holding Time Expires	Comments
PFAS in Water by EPA 537	12/12/2018 16:30	12/07/2018 10:01	

Containers Supplied:

10_250mL Plastic Cool to 4° C (A)

York Ref: 18K1041-02

Sample ID: MW-2

Matrix: Water

Date Sampled : 11/23/2018 09:26

Analysis Needed	Date Due	Holding Time Expires	Comments
PFAS in Water by EPA 537	12/12/2018 16:30	12/07/2018 09:26	

Containers Supplied:

10_250mL Plastic Cool to 4° C (A)

York Purchase Order No.: 18K1041

Samples from State of: NY

Deliverables required: NYSDEC ASP B

Data Pkg DUE: 12/27/2018

EDDs required: NYSDEC EQUIS

Special Info:

Chain-of-Custody Information

Paul Grace

11/28/2018

Released By York Sample Control Date

Received By

Date

Received By

Date

Received in Subcontract Lab By

Date

18K1218

YORK

Analytical Laboratories, Inc.

11/28/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody

York Project No.: 18K1041

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Note: E-mail lab reports to: York_Lab_Report@yorklab.com Mail/Fax Hard Copies to: York Analytical at the address below

York Ref: 18K1041-03

Sample ID: MW-3	Matrix: Water	Date Sampled: 11/23/2018 07:57	
<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Water by EPA 537	12/12/2018 16:30	12/07/2018 07:57	
<i>Containers Supplied:</i>			
10_250mL Plastic Cool to 4° C (A)			

York Ref: 18K1041-04

Sample ID: MW-4	Matrix: Water	Date Sampled: 11/22/2018 14:30	
<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Water by EPA 537	12/12/2018 16:30	12/06/2018 14:30	
<i>Containers Supplied:</i>			
10_250mL Plastic Cool to 4° C (A)			

York Ref: 18K1041-05

Sample ID: MW-4 DUP	Matrix: Water	Date Sampled: 11/22/2018 14:30	
<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Water by EPA 537	12/12/2018 16:30	12/06/2018 14:30	
<i>Containers Supplied:</i>			
10_250mL Plastic Cool to 4° C (A)			

York Purchase Order No.: 18K1041

Samples from State of: NY

Deliverables required: NYSDEC ASP B

Data Pkg DUE: 12/27/2018

EDDs required: NYSDEC EQUIS

Special Info:

Chain-of-Custody Information

Released By: Paul Grace	Date: 11/28/2018	Received By:	Date: 11/29/18
Received By:	Date: 11/29/18	Received in Subcontract Lab By: Y. J. [Signature]	Date: 11/29/18
Requisitioned By:			939

18K1218

YORK

Analytical Laboratories, Inc.

11/28/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody

York Project No.: 18K1041

This information is being sent to inform you that York intends to subcontract certain samples to another licensed laboratory for specific parameters that we cannot perform in-house. The specific parameters that will be subcontracted are detailed below. Do not contact the subcontract laboratory directly. Please contact the YORK project manager for further information.

Note: E-mail lab reports to: York_Lab_Report@yorklab.com Mail/Fax Hard Copies to: York Analytical at the address below

York Ref: 18K1041-06

Sample ID: MW-5	Date Due	Matrix: Water	Date Sampled : 11/23/2018 07:28	
<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>	
PFAS in Water by EPA 537	12/12/2018 16:30	12/07/2018 07:28		
<i>Containers Supplied:</i>				
10_250mL Plastic Cool to 4° C (A)				

York Ref: 18K1041-07

Sample ID: MW-6	Date Due	Matrix: Water	Date Sampled : 11/22/2018 16:28	
<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>	
PFAS in Water by EPA 537	12/12/2018 16:30	12/06/2018 16:28		
<i>Containers Supplied:</i>				
10_250mL Plastic Cool to 4° C (A)				

York Ref: 18K1041-08

Sample ID: MW-7	Date Due	Matrix: Water	Date Sampled : 11/22/2018 11:12	
<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>	
PFAS in Water by EPA 537	12/12/2018 16:30	12/06/2018 11:12		
<i>Containers Supplied:</i>				
10_250mL Plastic Cool to 4° C (A)				

York Purchase Order No.: 18K1041

Samples from State of: NY

Deliverables required: NYSDEC ASP B

Data Pkg DUE: 12/27/2018

EDDs required: NYSDEC EQUIS

Special Info:

Chain-of-Custody Information

Released By: <i>Paul Grace</i>	Date: 11/28/2018	Received By: <i>[Signature]</i>	Date: 11/29/18
Received By: <i>[Signature]</i>	Date: 11/29/18	Received in Subcontract Lab By: <i>[Signature]</i>	Date: 11/29/18
Relinquished By: <i>[Signature]</i>			939

18K1218

YORK

Analytical Laboratories, Inc.

11/28/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody

York Project No.: 18K1041

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Note: E-mail lab reports to: York_Lab_Report@yorklab.com Mail/Fax Hard Copies to: York Analytical at the address below

York Ref: 18K1041-09

Sample ID: MW-8

Matrix: Water

Date Sampled: 11/22/2018 17:10

Analysis Needed	Date Due	Holding Time Expires	Comments
PFAS in Water by EPA 537	12/12/2018 16:30	12/06/2018 17:10	

Containers Supplied:

10_250mL Plastic Cool to 4° C (A)

York Ref: 18K1041-10

Sample ID: MW-9

Matrix: Water

Date Sampled: 11/22/2018 15:56

Analysis Needed	Date Due	Holding Time Expires	Comments
PFAS in Water by EPA 537	12/12/2018 16:30	12/06/2018 15:56	

Containers Supplied:

10_250mL Plastic Cool to 4° C (A)

York Ref: 18K1041-11

Sample ID: MW-10

Matrix: Water

Date Sampled: 11/22/2018 16:35

Analysis Needed	Date Due	Holding Time Expires	Comments
PFAS in Water by EPA 537	12/12/2018 16:30	12/06/2018 16:35	

Containers Supplied:

10_250mL Plastic Cool to 4° C (A)

York Purchase Order No.: 18K1041

Samples from State of: NY

Deliverables required: NYSDEC ASP B

Data Pkg DUE: 12/27/2018

EDDs required: NYSDEC EQUIS

Special Info:

Chain-of-Custody Information

Paul Grace

11/28/2018

Released By York Sample Control

Received By

Date

Relinquished By

Date

Received in Subcontract Lab By

Date

18K1218

YORK

Analytical Laboratories, Inc.

11/28/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody

York Project No.: 18K1041

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York Ref: 18K1041-12

Sample ID: Field Blank

Matrix: Water

Date Sampled : 11/23/2018 09:05

Analysis Needed	Date Due	Holding Time Expires	Comments
PFAS in Water by EPA 537	12/12/2018 16:30	12/07/2018 09:05	

Containers Supplied:

10_250mL Plastic Cool to 4° C (A)

York Purchase Order No.: 18K1041

Samples from State of: NY

Deliverables required: NYSDEC ASP B

Data Pkg DUE: 12/27/2018

EDDs required: NYSDEC EQUIS

Special Info:

Chain-of-Custody Information

Paul Grace

11/28/2018

Released By York Sample Control Date

Received By  11/28/18 Date

Requisitioned By  11/28/18 Date

Received in Subcontract Lab By  11/28/18 939 Date

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



con-test
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client YORK Analytical
 Received By RAP Date 11/29/18 Time 939
 How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
 Direct from Sampling _____ Ambient _____ Melted Ice _____
 Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.9
 By Blank # _____ Actual Temp - _____
 Was Custody Seal Intact? NA Were Samples Tampered with? NA
 Was COC Relinquished? T Does Chain Agree With Samples? T
 Are there broken/leaking/loose caps on any samples? F
 Is COC in ink/ Legible? T Were samples received within holding time? T
 Did COC include all pertinent Information? Client T Analysis T Sampler Name F
 Project T ID's T Collection Dates/Times T
 Are Sample labels filled out and legible? T
 Are there Lab to Filters? F Who was notified? _____
 Are there Rushes? F Who was notified? _____
 Are there Short Holds? F Who was notified? _____
 Is there enough Volume? T
 Is there Headspace where applicable? F MS/MSD? F
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? F On COC? F
 Do all samples have the proper pH? N/A Acid _____ Base _____

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria	2oz Amb/Clear
DI-		Other Glass		Other Plastic	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Unused Media

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-		Other Plastic		Other Glass	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Comments:

YORK

18K1018

Analytical Laboratories, Inc.

11/30/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody York Project No.: 18K1041

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SENDING LABORATORY:

York Analytical Laboratories, Inc.
120 Research Drive
Stratford, CT 06615
Phone: 203.325.1371
Fax: 203.357.0166
Contact: York Analytical

* Revised
COC

RECEIVING LABORATORY:

Con-Test Analytical Laboratory
39 Spruce Street
East Long Meadow, MA 01028
Phone :(413) 525-2332
Fax: (413) 525-6405

York Ref: 18K1041-01

Sample ID: MW-1

Matrix: Water

Date Sampled : 11/28/2018 10:01

Analysis Needed	Date Due	Holding Time Expires	Comments
Semi-Volatiles, 1,4-Dioxane by 82	12/12/2018 16:30	12/26/2018 10:01	
PFAS in Water by EPA 537	12/12/2018 16:30	12/12/2018 10:01	

Containers Supplied:

10_250mL Plastic Cool to 4° C (A)	10_250mL Plastic Cool to 4° C (J)	07_1000mL Amber Glass Cool to 4° C (P)
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York Ref: 18K1041-02

Sample ID: MW-2

Matrix: Water

Date Sampled : 11/28/2018 09:26

Analysis Needed	Date Due	Holding Time Expires	Comments
PFAS in Water by EPA 537	12/12/2018 16:30	12/12/2018 09:26	
Semi-Volatiles, 1,4-Dioxane by 82	12/12/2018 16:30	12/26/2018 09:26	

Containers Supplied:

10_250mL Plastic Cool to 4° C (A)	10_250mL Plastic Cool to 4° C (J)	07_1000mL Amber Glass Cool to 4° C (O)
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York Purchase Order No.: 18K1041

Samples from State of: NY

Deliverables required: NYSDEC ASP B

Data Pkg DUE: 12/27/2018

EDDs required: NYSDEC EQuIS

Special Info:

Chain-of-Custody Information

Paul Grace

12-3-18
11/30/2018

Released By York Sample Control

Date

Received By

Date

Received By

Date

Received in Subcontract Lab By

Date

12/3/18 0600
3.9, 5.0
12/3/18 1043

YORK

18K1018

Analytical Laboratories, Inc.

11/30/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody York Project No.: 18K1041

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Note: E-mail lab reports to: York_Lab_Report@yorklab.com Mail/Fax Hard Copies to: York Analytical at the address below

York Ref: 18K1041-03

03 Sample ID: MW-3

Matrix: Water

Date Sampled : 11/28/2018 07:57

Analysis Needed	Date Due	Holding Time Expires	Comments
PFAS in Water by EPA 537	12/12/2018 16:30	12/12/2018 07:57	
Semi-Volatiles, 1,4-Dioxane by 82'	12/12/2018 16:30	12/26/2018 07:57	

Containers Supplied:

10_250mL Plastic Cool to 4° C (A) 10_250mL Plastic Cool to 4° C (J) 07_1000mL Amber Glass Cool to 4° C (O)

York Ref: 18K1041-04

04 Sample ID: MW-4

Matrix: Water

Date Sampled : 11/27/2018 14:30

Analysis Needed	Date Due	Holding Time Expires	Comments
Semi-Volatiles, 1,4-Dioxane by 82'	12/12/2018 16:30	12/25/2018 14:30	
PFAS in Water by EPA 537	12/12/2018 16:30	12/11/2018 14:30	

Containers Supplied:

10_250mL Plastic Cool to 4° C (A) 10_250mL Plastic Cool to 4° C (J) 07_1000mL Amber Glass Cool to 4° C (O)

York Ref: 18K1041-05

05 Sample ID: MW-4 DUP

Matrix: Water

Date Sampled : 11/27/2018 14:30

Analysis Needed	Date Due	Holding Time Expires	Comments
PFAS in Water by EPA 537	12/12/2018 16:30	12/11/2018 14:30	
Semi-Volatiles, 1,4-Dioxane by 82'	12/12/2018 16:30	12/25/2018 14:30	

Containers Supplied:

10_250mL Plastic Cool to 4° C (A) 10_250mL Plastic Cool to 4° C (J) 07_1000mL Amber Glass Cool to 4° C (O)

York Purchase Order No.: 18K1041

Samples from State of: NY

Deliverables required: NYSDEC ASP B

Data Pkg DUE: 12/27/2018

EDDs required: NYSDEC EQUIS

Special Info:

Chain-of-Custody Information

Paul Grace

11/30/2018

Released By York Sample Control

Date

Received By

[Signature] 12/3/18 0800

Received By

Date

Received in Subcontract Lab By

Date

3.95C 12/3/18 1043

Revised by

YORK

18K1018

Analytical Laboratories, Inc.

11/30/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody York Project No.: 18K1041

This information is being sent to inform you that York intends to subcontract certain samples to another licensed laboratory for specific parameters that we cannot perform in-house. The specific parameters that will be subcontracted are detailed below. Do not contact the subcontract laboratory directly. Please contact the YORK project manager for further information.

Note: E-mail lab reports to: York_Lab_Report@yorklab.com Mail/Fax Hard Copies to: York Analytical at the address below

York Ref: 18K1041-06

06 Sample ID: MW-5

Matrix: Water

Date Sampled : 11/28/2018 07:28

Analysis Needed	Date Due	Holding Time Expires	Comments
PFAS in Water by EPA 537	12/12/2018 16:30	12/12/2018 07:28	
Semi-Volatiles, 1,4-Dioxane by 82'	12/12/2018 16:30	12/26/2018 07:28	

Containers Supplied:

10_250mL Plastic Cool to 4° C (A) 10_250mL Plastic Cool to 4° C (J) 07_1000mL Amber Glass Cool to 4° C (O)

York Ref: 18K1041-07

07 Sample ID: MW-6

Matrix: Water

Date Sampled : 11/27/2018 16:28

Analysis Needed	Date Due	Holding Time Expires	Comments
Semi-Volatiles, 1,4-Dioxane by 82'	12/12/2018 16:30	12/25/2018 16:28	
PFAS in Water by EPA 537	12/12/2018 16:30	12/11/2018 16:28	

Containers Supplied:

10_250mL Plastic Cool to 4° C (A) 10_250mL Plastic Cool to 4° C (J) 07_1000mL Amber Glass Cool to 4° C (O)

York Ref: 18K1041-08

08 Sample ID: MW-7

Matrix: Water

Date Sampled : 11/27/2018 11:12

Analysis Needed	Date Due	Holding Time Expires	Comments
Semi-Volatiles, 1,4-Dioxane by 82'	12/12/2018 16:30	12/25/2018 11:12	
PFAS in Water by EPA 537	12/12/2018 16:30	12/11/2018 11:12	

Containers Supplied:

10_250mL Plastic Cool to 4° C (A) 10_250mL Plastic Cool to 4° C (J) 07_1000mL Amber Glass Cool to 4° C (O)

York Purchase Order No.: 18K1041

Samples from State of: NY

Deliverables required: NYSDEC ASP B

Data Pkg DUE: 12/27/2018

EDDs required: NYSDEC EQuIS

Special Info:

Chain-of-Custody Information

Released By: Paul Grace Date: 11/30/2018 Received By: *[Signature]* Date: 12/3/18

Received By: *[Signature]* Date: 12/3/18 Received in Subcontract Lab By: *[Signature]* Date: 12/3/18

Relinquished by: *[Signature]* Date: 12/3/18 Date: 12/3/18 1043

YORK

18K1018

Analytical Laboratories, Inc.

11/30/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody York Project No.: 18K1041

This information is being sent to inform you that York intends to subcontract certain samples to another licensed laboratory for specific parameters that we cannot perform in-house. The specific parameters that will be subcontracted are detailed below. Do not contact the subcontract laboratory directly. Please contact the YORK project manager for further information.

Note: E-mail lab reports to: York_Lab_Report@yorklab.com Mail/Fax Hard Copies to: York Analytical at the address below

York Ref: 18K1041-09

09 Sample ID: MW-8

Matrix: Water

Date Sampled : 11/27/2018 17:10

Analysis Needed	Date Due	Holding Time Expires	Comments
PFAS in Water by EPA 537	12/12/2018 16:30	12/11/2018 17:10	
Semi-Volatiles, 1,4-Dioxane by 82	12/12/2018 16:30	12/25/2018 17:10	

Containers Supplied:

10_250mL Plastic Cool to 4° C (A) 10_250mL Plastic Cool to 4° C (J) 07_1000mL Amber Glass Cool to 4° C (O)

York Ref: 18K1041-10

10 Sample ID: MW-9

Matrix: Water

Date Sampled : 11/27/2018 15:56

Analysis Needed	Date Due	Holding Time Expires	Comments
Semi-Volatiles, 1,4-Dioxane by 82	12/12/2018 16:30	12/25/2018 15:56	
PFAS in Water by EPA 537	12/12/2018 16:30	12/11/2018 15:56	

Containers Supplied:

10_250mL Plastic Cool to 4° C (A) 10_250mL Plastic Cool to 4° C (J) 07_1000mL Amber Glass Cool to 4° C (O)

York Ref: 18K1041-11

11 Sample ID: MW-10

Matrix: Water

Date Sampled : 11/27/2018 16:35

Analysis Needed	Date Due	Holding Time Expires	Comments
Semi-Volatiles, 1,4-Dioxane by 82	12/12/2018 16:30	12/25/2018 16:35	
PFAS in Water by EPA 537	12/12/2018 16:30	12/11/2018 16:35	

Containers Supplied:

10_250mL Plastic Cool to 4° C (A) 10_250mL Plastic Cool to 4° C (J) 07_1000mL Amber Glass Cool to 4° C (O)

York Purchase Order No.: 18K1041

Samples from State of: NY

Deliverables required: NYSDEC ASP B

Data Pkg DUE: 12/27/2018

EDDs required: NYSDEC EQUIS

Special Info:

Chain-of-Custody Information

Paul Grace

11/30/2018

Released By York Sample Control

Date

Received By

Date

Received By

Date

Received in Subcontract Lab By

Date

YORK

18K10418

Analytical Laboratories, Inc.

11/30/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody York Project No.: 18K1041

This information is being sent to inform you that York intends to subcontract certain samples to another licensed laboratory for specific parameters that we cannot perform in-house. The specific parameters that will be subcontracted are detailed below. Do not contact the subcontract laboratory directly. Please contact the YORK project manager for further information.

Note: E-mail lab reports to: York_Lab_Report@yorklab.com Mail/Fax Hard Copies to: York Analytical at the address below

York Ref: 18K1041-12

12 Sample ID: Field Blank

Matrix: Water

Date Sampled: 11/28/2018 09:05

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
Semi-Volatiles, 1,4-Dioxane by 82'	12/12/2018 16:30	12/26/2018 09:05	
PFAS in Water by EPA 537	12/12/2018 16:30	12/12/2018 09:05	

Containers Supplied:

10_250mL Plastic Cool to 4° C (A)	10_250mL Plastic Cool to 4° C (J)	07_1000mL Amber Glass Cool to 4° C (O)
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York Purchase Order No.: 18K1041

Samples from State of: NY

Deliverables required: NYSDEC ASP B

Data Pkg DUE: 12/27/2018

EDDs required: NYSDEC EQuIS

Special Info:

Chain-of-Custody Information

Paul Grace

11/30/2018

Released By York Sample Control

Date

Received By

Date

Received By

Date

Received in Subcontract Lab By

Date

Handwritten notes and signatures:
 12/3/18
 12/3/18
 3.9, 5°C
 12/3/18 1043
 0000
 Retained by

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



con-test
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client York Analytical
Received By RLF Date 12/31/18 Time 1043

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 2 Actual Temp -3.9, 5°C
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T
Are there Lab to Filters? F Who was notified? _____
Are there Rushes? F Who was notified? _____
Are there Short Holds? F Who was notified? _____

Is there enough Volume? T
Is there Headspace where applicable? NA MS/MSD? F
Proper Media/Containers Used? T Is splitting samples required? F
Were trip blanks received? F On COC? F
Do all samples have the proper pH? Acid NA Base NA

Vials	#	Containers:	#		#	
Unp-		1 Liter Amb.	<u>12</u>	1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear
DI-		Other Glass		Other Plastic		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Unused Media

Vials	#	Containers:	#		#	
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments:

revised chain, adding 1,4 dioxane.

* 1 amber per sample → limited volume

18K1218

YORK

Analytical Laboratories, Inc.

11/30/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody York Project No.: 18K1041

This information is being sent to inform you that York intends to subcontract certain samples to another licensed laboratory for specific parameters that we cannot perform in-house. The specific parameters that will be subcontracted are detailed below. Do not contact the subcontract laboratory directly. Please contact the YORK project manager for further information.

Note: E-mail lab reports to: York_Lab_Report@yorklab.com Mail/Fax Hard Copies to: York Analytical at the address below

SENDING LABORATORY:

York Analytical Laboratories, Inc.
120 Research Drive
Stratford, CT 06615
Phone: 203.325.1371
Fax: 203.357.0166
Contact: York Analytical

* Revised
COC

RECEIVING LABORATORY:

Con-Test Analytical Laboratory
39 Spruce Street
East Long Meadow, MA 01028
Phone: (413) 525-2332
Fax: (413) 525-6405

York Ref: 18K1041-01

Sample ID: MW-1

Matrix: Water

Date Sampled: 11/28/2018 10:01

Analysis Needed	Date Due	Holding Time Expires	Comments
Semi-Volatiles, 1,4-Dioxane by 82'	12/12/2018 16:30	12/26/2018 10:01	
PFAS in Water by EPA 537	12/12/2018 16:30	12/12/2018 10:01	

Containers Supplied:

10_250mL Plastic Cool to 4° C (A) 10_250mL Plastic Cool to 4° C (J) 07_1000mL Amber Glass Cool to 4° C (P)

York Ref: 18K1041-02

Sample ID: MW-2

Matrix: Water

Date Sampled: 11/28/2018 09:26

Analysis Needed	Date Due	Holding Time Expires	Comments
PFAS in Water by EPA 537	12/12/2018 16:30	12/12/2018 09:26	
Semi-Volatiles, 1,4-Dioxane by 82'	12/12/2018 16:30	12/26/2018 09:26	

Containers Supplied:

10_250mL Plastic Cool to 4° C (A) 10_250mL Plastic Cool to 4° C (J) 07_1000mL Amber Glass Cool to 4° C (O)

York Purchase Order No.: 18K1041

Samples from State of: NY

Deliverables required: NYSDEC ASP B

Data Pkg DUE: 12/27/2018

EDDs required: NYSDEC EQUIS

Special Info:

Chain-of-Custody Information

Released By York Sample Control	Date	Received By	Date
Paul Grace	12-3-18 11/30/2018	<i>[Signature]</i>	12/3/18 0800
Received By	Date	Received in Subcontract Lab By	Date
<i>[Signature]</i>	12/3/18	<i>[Signature]</i>	12/3/18 1043

Relinquished by

18K1268

YORK

Analytical Laboratories, Inc.

11/30/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody York Project No.: 18K1041

This information is being sent to inform you that York intends to subcontract certain samples to another licensed laboratory for specific parameters that we cannot perform in-house. The specific parameters that will be subcontracted are detailed below. Do not contact the subcontract laboratory directly. Please contact the YORK project manager for further information.

Note: E-mail lab reports to: York_Lab_Report@yorklab.com Mail/Fax Hard Copies to: York Analytical at the address below

York Ref: 18K1041-03

Sample ID: MW-3	Matrix: Water	Date Sampled: 11/28/2018 07:57
Analysis Needed	Holding Time Expires	Comments
PFAS in Water by EPA 537	12/12/2018 16:30	12/12/2018 07:57
Semi-Volatiles, 1,4-Dioxane by 82	12/12/2018 16:30	12/26/2018 07:57
<i>Containers Supplied:</i>		
10_250mL Plastic Cool to 4° C (A)	10_250mL Plastic Cool to 4° C (J)	07_1000mL Amber Glass Cool to 4° C (O)

York Ref: 18K1041-04

Sample ID: MW-4	Matrix: Water	Date Sampled: 11/27/2018 14:30
Analysis Needed	Holding Time Expires	Comments
Semi-Volatiles, 1,4-Dioxane by 82	12/12/2018 16:30	12/25/2018 14:30
PFAS in Water by EPA 537	12/12/2018 16:30	12/11/2018 14:30
<i>Containers Supplied:</i>		
10_250mL Plastic Cool to 4° C (A)	10_250mL Plastic Cool to 4° C (J)	07_1000mL Amber Glass Cool to 4° C (O)

York Ref: 18K1041-05

Sample ID: MW-4 DUP	Matrix: Water	Date Sampled: 11/27/2018 14:30
Analysis Needed	Holding Time Expires	Comments
PFAS in Water by EPA 537	12/12/2018 16:30	12/11/2018 14:30
Semi-Volatiles, 1,4-Dioxane by 82	12/12/2018 16:30	12/25/2018 14:30
<i>Containers Supplied:</i>		
10_250mL Plastic Cool to 4° C (A)	10_250mL Plastic Cool to 4° C (J)	07_1000mL Amber Glass Cool to 4° C (O)

York Purchase Order No.: 18K1041

Samples from State of: NY

Deliverables required: NYSDEC ASP B

Data Pkg DUE: 12/27/2018

EDDs required: NYSDEC EQUIS

Special Info:

Chain-of-Custody Information

Released By York Sample Control	Date: 11/30/2018	Received By: <i>[Signature]</i>	Date: 12/3/18 0800
Received By: <i>[Signature]</i>	Date: 12/3/18	Received in Subcontract Lab By: <i>[Signature]</i>	Date: 12/31/18 1043

18K1218

YORK

Analytical Laboratories, Inc.

11/30/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody

York Project No.: 18K1041

This information is being sent to inform you that York intends to subcontract certain samples to another licensed laboratory for specific parameters that we cannot perform in-house. The specific parameters that will be subcontracted are detailed below. Do not contact the subcontract laboratory directly. Please contact the YORK project manager for further information.

Note: E-mail lab reports to: York_Lab_Report@yorklab.com Mail/Fax Hard Copies to: York Analytical at the address below

York Ref: 18K1041-06

Sample ID: MW-5	Matrix: Water	Date Sampled: 11/28/2018 07:28
Analysis Needed	Holding Time Expires	Comments
PFAS in Water by EPA 537	12/12/2018 16:30	12/12/2018 07:28
Semi-Volatiles, 1,4-Dioxane by 82	12/12/2018 16:30	12/26/2018 07:28
<i>Containers Supplied:</i>		
10_250mL Plastic Cool to 4° C (A)	10_250mL Plastic Cool to 4° C (J)	07_1000mL Amber Glass Cool to 4° C (O)

York Ref: 18K1041-07

Sample ID: MW-6	Matrix: Water	Date Sampled: 11/27/2018 16:28
Analysis Needed	Holding Time Expires	Comments
Semi-Volatiles, 1,4-Dioxane by 82	12/12/2018 16:30	12/25/2018 16:28
PFAS in Water by EPA 537	12/12/2018 16:30	12/11/2018 16:28
<i>Containers Supplied:</i>		
10_250mL Plastic Cool to 4° C (A)	10_250mL Plastic Cool to 4° C (J)	07_1000mL Amber Glass Cool to 4° C (O)

York Ref: 18K1041-08

Sample ID: MW-7	Matrix: Water	Date Sampled: 11/27/2018 11:12
Analysis Needed	Holding Time Expires	Comments
Semi-Volatiles, 1,4-Dioxane by 82	12/12/2018 16:30	12/25/2018 11:12
PFAS in Water by EPA 537	12/12/2018 16:30	12/11/2018 11:12
<i>Containers Supplied:</i>		
10_250mL Plastic Cool to 4° C (A)	10_250mL Plastic Cool to 4° C (J)	07_1000mL Amber Glass Cool to 4° C (O)

York Purchase Order No.: 18K1041

Samples from State of: NY

Deliverables required: NYSDEC ASP B

Data Pkg DUE: 12/27/2018

EDDs required: NYSDEC EQUIS

Special Info:

Chain-of-Custody Information

Released By York Sample Control	Date	Received By	Date
Paul Grace	11/30/2018	[Signature]	12/3/18
Received By	Date	Received in Subcontract Lab By	Date
[Signature]	12/3/18	[Signature]	12/3/18 1043

Relinquished by

18K1218

YORK

Analytical Laboratories, Inc.

11/30/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody

York Project No.: 18K1041

This information is being sent to inform you that York intends to subcontract certain samples to another licensed laboratory for specific parameters that we cannot perform in-house. The specific parameters that will be subcontracted are detailed below. Do not contact the subcontract laboratory directly. Please contact the YORK project manager for further information.

Note: E-mail lab reports to: York_Lab_Report@yorklab.com Mail/Fax Hard Copies to: York Analytical at the address below

York Ref: 18K1041-09

Sample ID: MW-8	Matrix: Water	Date Sampled: 11/27/2018 17:10
Analysis Needed	Holding Time Expires	Comments
PFAS in Water by EPA 537	12/11/2018 17:10	
Semi-Volatiles, 1,4-Dioxane by 82'	12/25/2018 17:10	
<i>Containers Supplied:</i>		
10_250mL Plastic Cool to 4° C (A)	10_250mL Plastic Cool to 4° C (J)	07_1000mL Amber Glass Cool to 4° C (O)

York Ref: 18K1041-10

Sample ID: MW-9	Matrix: Water	Date Sampled: 11/27/2018 15:56
Analysis Needed	Holding Time Expires	Comments
Semi-Volatiles, 1,4-Dioxane by 82'	12/25/2018 15:56	
PFAS in Water by EPA 537	12/11/2018 15:56	
<i>Containers Supplied:</i>		
10_250mL Plastic Cool to 4° C (A)	10_250mL Plastic Cool to 4° C (J)	07_1000mL Amber Glass Cool to 4° C (O)

York Ref: 18K1041-11

Sample ID: MW-10	Matrix: Water	Date Sampled: 11/27/2018 16:35
Analysis Needed	Holding Time Expires	Comments
Semi-Volatiles, 1,4-Dioxane by 82'	12/25/2018 16:35	
PFAS in Water by EPA 537	12/11/2018 16:35	
<i>Containers Supplied:</i>		
10_250mL Plastic Cool to 4° C (A)	10_250mL Plastic Cool to 4° C (J)	07_1000mL Amber Glass Cool to 4° C (O)

York Purchase Order No.: 18K1041

Samples from State of: NY

Deliverables required: NYSDEC ASP B

Data Pkg DUE: 12/27/2018

EDDs required: NYSDEC EQUS

Special Info:

Chain-of-Custody Information

Released By: Paul Grace	Date: 11/30/2018	Received By: <i>[Signature]</i>	Date: 12/3/18
Received By: <i>[Signature]</i>	Date: 12/3/18	Received in Subcontract Lab By: <i>[Signature]</i>	Date: 12/3/18 1043

18K1218

YORK

Analytical Laboratories, Inc.

11/30/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody York Project No.: 18K1041

This information is being sent to inform you that York intends to subcontract certain samples to another licensed laboratory for specific parameters that we cannot perform in-house. The specific parameters that will be subcontracted are detailed below. Do not contact the subcontract laboratory directly. Please contact the YORK project manager for further information.

Note: E-mail lab reports to: York_Lab_Report@yorklab.com Mail/Fax Hard Copies to: York Analytical at the address below

York Ref: 18K1041-12

Sample ID: Field Blank

Matrix: Water

Date Sampled: 11/28/2018 09:05

Analysis Needed	Date Due	Holding Time Expires	Comments
Semi-Volatiles, 1,4-Dioxane by 82	12/12/2018 16:30	12/26/2018 09:05	
PFAS in Water by EPA 537	12/12/2018 16:30	12/12/2018 09:05	

Containers Supplied:

10_250mL Plastic Cool to 4° C (A)	10_250mL Plastic Cool to 4° C (J)	07_1000mL Amber Glass Cool to 4° C (O)
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York Purchase Order No.: 18K1041

Samples from State of: NY

Deliverables required: NYSDEC ASP B

Data Pkg DUE: 12/27/2018

EDDs required: NYSDEC EQuIS

Special Info:

Chain-of-Custody Information

Released By York Sample Control	Date	Received By	Date
Paul Grace	11/30/2018	<i>[Signature]</i>	12/3/18
Received By	Date	Received in Subcontract Lab By	Date
<i>[Signature]</i>	12/3/18	<i>[Signature]</i>	12/3/18 1043

Relinquished by

Extra volume received 12/5/18 @ 12:33
18K1218

YORK

Analytical Laboratories, Inc.

11/28/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody

York Project No.: 18K1041

This information is being sent to inform you that York intends to subcontract certain samples to another licensed laboratory for specific parameters that we cannot perform in-house. The specific parameters that will be subcontracted are detailed below. Do not contact the subcontract laboratory directly. Please contact the YORK project manager for further information.

Note: E-mail lab reports to: York_Lab_Report@yorklab.com Mail/Fax Hard Copies to: York Analytical at the address below

SENDING LABORATORY:

York Analytical Laboratories, Inc.
120 Research Drive
Stratford, CT 06615
Phone: 203.325.1371
Fax: 203.357.0166
Contact: York Analytical

RECEIVING LABORATORY:

Con-Test Analytical Laboratory
39 Spruce Street
East Long Meadow, MA 01028
Phone : (413) 525-2332
Fax: (413) 525-6405

York Ref: 18K1041-01

<u>Sample ID:</u> MW-1	<u>Matrix:</u> Water	<u>Date Sampled:</u> 11/23/2018 10:01
<u>Analysis Needed</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Water by EPA 537	12/12/2018 16:30	12/07/2018 10:01

Containers Supplied:
10_250mL Plastic Cool to 4° C (A)

York Ref: 18K1041-02

<u>Sample ID:</u> MW-2	<u>Matrix:</u> Water	<u>Date Sampled:</u> 11/23/2018 09:26
<u>Analysis Needed</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Water by EPA 537	12/12/2018 16:30	12/07/2018 09:26

Containers Supplied:
10_250mL Plastic Cool to 4° C (A)

York Purchase Order No.: 18K1041

Samples from State of: NY

Deliverables required: NYSDEC ASP B

Data Pkg DUE: 12/27/2018

EDDs required: NYSDEC EQUIS

Special Info:

Chain-of-Custody Information

Released By York Sample Control	Date	Received By	Date
Paul Grace	12/5/18	[Signature]	12/5/18
Received By	Date	Received in Subcontract Lab By	Date
[Signature]	12/5/18	[Signature]	12/5/18

Relinquished by [Signature]

AN ADDITIONAL LITER IS BEING TRANSFERRED FOR REPREP -

18K1218 YORK

Analytical Laboratories, Inc.

11/28/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody York Project No.: 18K1041

This information is being sent to inform you that York intends to subcontract certain samples to another licensed laboratory for specific parameters that we cannot perform in-house. The specific parameters that will be subcontracted are detailed below. Do not contact the subcontract laboratory directly. Please contact the YORK project manager for further information.

Note: E-mail lab reports to: York_Lab_Report@yorklab.com Mail/Fax Hard Copies to: York Analytical at the address below

York Ref: 18K1041-03

Sample ID: MW-3	Matrix: Water	Date Sampled: 11/23/2018 07:57
Analysis Needed	Holding Time Expires	Comments
PFAS in Water by EPA 537	12/12/2018 16:30	12/07/2018 07:57

Containers Supplied:
10_250mL Plastic Cool to 4° C (A)

York Ref: 18K1041-04

Sample ID: MW-4	Matrix: Water	Date Sampled: 11/22/2018 14:30
Analysis Needed	Holding Time Expires	Comments
PFAS in Water by EPA 537	12/12/2018 16:30	12/06/2018 14:30

Containers Supplied:
10_250mL Plastic Cool to 4° C (A)

York Ref: 18K1041-05

Sample ID: MW-4 DUP	Matrix: Water	Date Sampled: 11/22/2018 14:30
Analysis Needed	Holding Time Expires	Comments
PFAS in Water by EPA 537	12/12/2018 16:30	12/06/2018 14:30

Containers Supplied:
10_250mL Plastic Cool to 4° C (A)

York Purchase Order No.: 18K1041

Samples from State of: NY

Deliverables required: NYSDEC ASP B

Data Pkg DUE: 12/27/2018

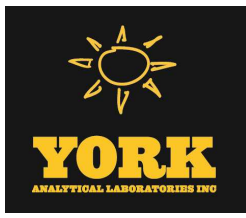
EDDs required: NYSDEC EQuIS

Special Info:

Chain-of-Custody Information

Released By: Paul Grace	Date: 12/5/18	Received By: [Signature]	Date: 12/5/18
Received By: [Signature]	Date: 12/5/18	Received in Subcontract Lab By: [Signature]	Date: 12/5/18

Requested by: AN Additional LITER is being TRANSFERRED FOR Reprep -



Technical Report

prepared for:

Atlantic Environmental Solutions, Inc.
5 Marine View Plaza, Suite 303
Hoboken NJ, 07030
Attention: Seamus Kelly

Report Date: 12/04/2018
Client Project ID: 37321-STX 27-10 49th Ave
York Project (SDG) No.: 18K0636

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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@yorklab.com

Report Date: 12/04/2018
Client Project ID: 37321-STX 27-10 49th Ave
York Project (SDG) No.: 18K0636

Atlantic Environmental Solutions, Inc.
5 Marine View Plaza, Suite 303
Hoboken NJ, 07030
Attention: Seamus Kelly

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 November 16, 2018 and listed below. The project was identified as your project: **37321-STX 27-10 49th Ave.**

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>
18K0636-01	SB-70A	Soil	11/14/2018	11/15/2018
18K0636-02	SB-70B	Soil	11/14/2018	11/15/2018
18K0636-03	SB-71A	Soil	11/14/2018	11/15/2018
18K0636-04	SB-71B	Soil	11/14/2018	11/15/2018
18K0636-05	SB-72A	Soil	11/14/2018	11/15/2018
18K0636-06	SB-72B	Soil	11/14/2018	11/15/2018
18K0636-07	SB-72C	Soil	11/14/2018	11/15/2018
18K0636-08	SB-73A	Soil	11/14/2018	11/15/2018
18K0636-09	SB-73B	Soil	11/14/2018	11/15/2018
18K0636-10	SB-73C	Soil	11/14/2018	11/15/2018
18K0636-11	SB-74A	Soil	11/15/2018	11/15/2018
18K0636-12	SB-74B	Soil	11/15/2018	11/15/2018
18K0636-13	SB-75A	Soil	11/15/2018	11/15/2018
18K0636-14	SB-75B	Soil	11/15/2018	11/15/2018
18K0636-15	SB-76A	Soil	11/15/2018	11/15/2018
18K0636-16	SB-76B	Soil	11/15/2018	11/15/2018
18K0636-17	SB-77A	Soil	11/15/2018	11/15/2018
18K0636-18	SB-77B	Soil	11/15/2018	11/15/2018
18K0636-19	SB-77C	Soil	11/15/2018	11/15/2018
18K0636-20	Dup 1114	Soil	11/15/2018	11/15/2018
18K0636-21	Trip Blank	Water	11/15/2018	11/15/2018

General Notes for York Project (SDG) No.: 18K0636

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: 12/04/2018





Sample Information

Client Sample ID: SB-70A

York Sample ID: 18K0636-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18K0636	37321-STX 27-10 49th Ave	Soil	November 14, 2018 10:59 am	11/15/2018

Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 01:57	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 01:57	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 01:57	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 01:57	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 01:57	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 01:57	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 01:57	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 01:57	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 01:57	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	54	110	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 01:57	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 01:57	LLJ
67-64-1	Acetone	ND		ug/kg dry	5.4	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 01:57	LLJ
71-43-2	Benzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 01:57	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 01:57	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 01:57	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 01:57	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 01:57	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 01:57	LLJ
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,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 01:57	LLJ
75-09-2	Methylene chloride	ND		ug/kg dry	5.4	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 01:57	LLJ
91-20-3	Naphthalene	ND		ug/kg dry	2.7	11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 01:57	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 01:57	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 01:57	LLJ



Sample Information

Client Sample ID: SB-70A

York Sample ID: 18K0636-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 14, 2018 10:59 am

11/15/2018

Volatile Organics, NYSDEC Part 375 List

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
95-47-6	o-Xylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/17/2018 17:21	11/18/2018 01:57	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.4	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/17/2018 17:21	11/18/2018 01:57	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 01:57	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 01:57	LLJ
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 01:57	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 01:57	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 01:57	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 01:57	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 01:57	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.1	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/17/2018 17:21	11/18/2018 01:57	LLJ
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	103 %			77-125						
2037-26-5	Surrogate: SURR: Toluene-d8	104 %			85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	119 %			76-130						

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	225	448	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:04	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	225	448	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:04	KH
83-32-9	Acenaphthene	ND		ug/kg dry	225	448	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:04	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	225	448	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:04	KH
120-12-7	Anthracene	ND		ug/kg dry	225	448	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:04	KH
56-55-3	Benzo(a)anthracene	616		ug/kg dry	225	448	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:04	KH
50-32-8	Benzo(a)pyrene	609		ug/kg dry	225	448	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:04	KH
205-99-2	Benzo(b)fluoranthene	551		ug/kg dry	225	448	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:04	KH



Sample Information

Client Sample ID: SB-70A

York Sample ID: 18K0636-01

York Project (SDG) No.

Client Project ID

Matrix

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18K0636

37321-STX 27-10 49th Ave

Soil

November 14, 2018 10:59 am

11/15/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	Benzo(g,h,i)perylene	405	J	ug/kg dry	225	448	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:04	KH
207-08-9	Benzo(k)fluoranthene	555		ug/kg dry	225	448	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:04	KH
218-01-9	Chrysene	634		ug/kg dry	225	448	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:04	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	225	448	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:04	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	225	448	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:04	KH
206-44-0	Fluoranthene	1110		ug/kg dry	225	448	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:04	KH
86-73-7	Fluorene	ND		ug/kg dry	225	448	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:04	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	225	448	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:04	KH
193-39-5	Indeno(1,2,3-cd)pyrene	476		ug/kg dry	225	448	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:04	KH
91-20-3	Naphthalene	ND		ug/kg dry	225	448	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:04	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	225	448	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:04	KH
85-01-8	Phenanthrene	759		ug/kg dry	225	448	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:04	KH
108-95-2	Phenol	ND		ug/kg dry	225	448	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:04	KH
129-00-0	Pyrene	1220		ug/kg dry	225	448	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:04	KH

Surrogate Recoveries

Result

Acceptance Range

367-12-4	Surrogate: SURR: 2-Fluorophenol	42.6 %
4165-62-2	Surrogate: SURR: Phenol-d5	43.8 %
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	36.8 %
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	46.8 %
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	39.6 %
1718-51-0	Surrogate: SURR: Terphenyl-d14	50.4 %

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:42	TJD



Sample Information

Client Sample ID: SB-70A

York Sample ID: 18K0636-01

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11/15/2018

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-55-9	4,4'-DDE	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:42	TJD
50-29-3	4,4'-DDT	36.9		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:42	TJD
309-00-2	Aldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:42	TJD
319-84-6	alpha-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:42	TJD
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/26/2018 07:19	11/27/2018 02:42	TJD
319-85-7	beta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:42	TJD
319-86-8	delta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:42	TJD
60-57-1	Dieldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:42	TJD
959-98-8	Endosulfan I	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:42	TJD
33213-65-9	Endosulfan II	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/26/2018 07:19	11/27/2018 02:42	TJD
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:42	TJD
72-20-8	Endrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:42	TJD
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:42	TJD
76-44-8	Heptachlor	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:42	TJD
	Surrogate Recoveries	Result					Acceptance Range			
2051-24-3	Surrogate: Decachlorobiphenyl	58.1 %					30-150			
877-09-8	Surrogate: Tetrachloro-m-xylene	51.8 %					30-150			

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 01:46	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 01:46	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 01:46	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 01:46	TJD



Sample Information

Client Sample ID: SB-70A

York Sample ID: 18K0636-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 14, 2018 10:59 am

11/15/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 01:46	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 01:46	TJD
11096-82-5	Aroclor 1260	0.0226		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 01:46	TJD
1336-36-3	* Total PCBs	0.0226		mg/kg dry	0.0179	1	EPA 8082A Certifications:	11/26/2018 07:19	11/27/2018 01:46	TJD
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	61.9 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	41.8 %	30-140							

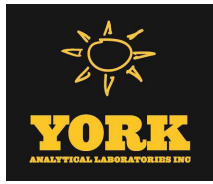
Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	6230		mg/kg dry	5.37	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:57	KML
7440-36-0	Antimony	ND		mg/kg dry	2.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:57	KML
7440-38-2	Arsenic	4.52		mg/kg dry	1.61	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:57	KML
7440-39-3	Barium	530		mg/kg dry	2.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:57	KML
7440-41-7	Beryllium	0.855		mg/kg dry	0.054	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:57	KML
7440-43-9	Cadmium	1.59		mg/kg dry	0.322	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:57	KML
7440-70-2	Calcium	30700		mg/kg dry	5.37	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:57	KML
7440-47-3	Chromium	55.3		mg/kg dry	0.537	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:57	KML
7440-48-4	Cobalt	26.2		mg/kg dry	0.430	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:57	KML
7440-50-8	Copper	329		mg/kg dry	2.15	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:57	KML
7439-89-6	Iron	25500		mg/kg dry	26.9	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:57	KML
7439-92-1	Lead	944		mg/kg dry	0.537	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:57	KML
7439-95-4	Magnesium	4670		mg/kg dry	5.37	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:57	KML



Sample Information

Client Sample ID: SB-70A

York Sample ID: 18K0636-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 14, 2018 10:59 am

11/15/2018

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	297		mg/kg dry	0.537	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:57	KML
7440-02-0	Nickel	39.9		mg/kg dry	1.07	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:57	KML
7440-09-7	Potassium	1550	B	mg/kg dry	5.37	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:57	KML
7782-49-2	Selenium	ND		mg/kg dry	2.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:57	KML
7440-22-4	Silver	ND		mg/kg dry	0.537	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:57	KML
7440-23-5	Sodium	851		mg/kg dry	53.7	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:57	KML
7440-28-0	Thallium	ND		mg/kg dry	2.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:57	KML
7440-62-2	Vanadium	37.8		mg/kg dry	1.07	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:57	KML
7440-66-6	Zinc	1990		mg/kg dry	2.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:57	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.475		mg/kg dry	0.0322	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/16/2018 15:23	11/16/2018 16:28	SY

Total Solids

Log-in Notes:

Sample Notes:

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	93.1		%	0.100	1	SM 2540G Certifications: CTDOH	11/26/2018 10:25	11/26/2018 13:28	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.537	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/26/2018 08:38	11/26/2018 17:08	MAC

Chromium, Trivalent

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB-70A

York Sample ID: 18K0636-01

<u>York Project (SDG) No.</u> 18K0636	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 14, 2018 10:59 am	<u>Date Received</u> 11/15/2018
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Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	55.3		mg/kg	0.500	1	Calculation	11/30/2018 14:23	11/30/2018 14:45	PAM

Certifications:

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.537	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 08:26	11/26/2018 14:30	JTV

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	NMeFOSAA	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	NEtFOSAA	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	



Sample Information

Client Sample ID: SB-70A

York Sample ID: 18K0636-01

<u>York Project (SDG) No.</u> 18K0636	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 14, 2018 10:59 am	<u>Date Received</u> 11/15/2018
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Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries		Result	Acceptance Range							
	Surrogate: 13C-PFHxA	%		70-130						
	Surrogate: 13C-PFDA	%		70-130						
	Surrogate: d5-NEtFOSAA	%		70-130						

Sample Information

Client Sample ID: SB-70B

York Sample ID: 18K0636-02

<u>York Project (SDG) No.</u> 18K0636	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 14, 2018 11:04 am	<u>Date Received</u> 11/15/2018
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Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 02:29	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 02:29	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 02:29	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 02:29	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 02:29	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 02:29	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 02:29	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 02:29	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 02:29	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	55	110	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 02:29	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 02:29	LLJ
67-64-1	Acetone	ND		ug/kg dry	5.5	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 02:29	LLJ



Sample Information

Client Sample ID: SB-70B

York Sample ID: 18K0636-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 14, 2018 11:04 am

11/15/2018

Volatile Organics, NYSDEC Part 375 List

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
71-43-2	Benzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 02:29	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 02:29	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 02:29	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 02:29	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 02:29	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 02:29	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 02:29	LLJ
75-09-2	Methylene chloride	ND		ug/kg dry	5.5	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 02:29	LLJ
91-20-3	Naphthalene	ND		ug/kg dry	2.8	11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 02:29	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 02:29	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 02:29	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/17/2018 17:21	11/18/2018 02:29	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.5	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/17/2018 17:21	11/18/2018 02:29	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 02:29	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 02:29	LLJ
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 02:29	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 02:29	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 02:29	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 02:29	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 02:29	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.3	17	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/17/2018 17:21	11/18/2018 02:29	LLJ

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	103 %	77-125
2037-26-5	Surrogate: SURRE: Toluene-d8	112 %	85-120
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	117 %	76-130



Sample Information

Client Sample ID: SB-70B

York Sample ID: 18K0636-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 14, 2018 11:04 am

11/15/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	46.1	92.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:34	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	46.1	92.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:34	KH
83-32-9	Acenaphthene	65.4	J	ug/kg dry	46.1	92.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:34	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	46.1	92.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:34	KH
120-12-7	Anthracene	156		ug/kg dry	46.1	92.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:34	KH
56-55-3	Benzo(a)anthracene	357		ug/kg dry	46.1	92.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:34	KH
50-32-8	Benzo(a)pyrene	341		ug/kg dry	46.1	92.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:34	KH
205-99-2	Benzo(b)fluoranthene	259		ug/kg dry	46.1	92.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:34	KH
191-24-2	Benzo(g,h,i)perylene	184		ug/kg dry	46.1	92.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:34	KH
207-08-9	Benzo(k)fluoranthene	289		ug/kg dry	46.1	92.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:34	KH
218-01-9	Chrysene	365		ug/kg dry	46.1	92.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:34	KH
53-70-3	Dibenzo(a,h)anthracene	47.0	J	ug/kg dry	46.1	92.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:34	KH
132-64-9	Dibenzofuran	50.0	J	ug/kg dry	46.1	92.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:34	KH
206-44-0	Fluoranthene	740		ug/kg dry	46.1	92.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:34	KH
86-73-7	Fluorene	75.0	J	ug/kg dry	46.1	92.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:34	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	46.1	92.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:34	KH
193-39-5	Indeno(1,2,3-cd)pyrene	222		ug/kg dry	46.1	92.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:34	KH
91-20-3	Naphthalene	ND		ug/kg dry	46.1	92.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:34	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	46.1	92.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:34	KH
85-01-8	Phenanthrene	707		ug/kg dry	46.1	92.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:34	KH
108-95-2	Phenol	ND		ug/kg dry	46.1	92.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:34	KH
129-00-0	Pyrene	763		ug/kg dry	46.1	92.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 16:34	KH



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Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries		Result	Acceptance Range								
367-12-4	Surrogate: SURR: 2-Fluorophenol	65.7 %									
4165-62-2	Surrogate: SURR: Phenol-d5	67.1 %									
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	52.6 %									
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	67.8 %									
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	63.5 %									
1718-51-0	Surrogate: SURR: Terphenyl-d14	71.4 %									

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst	
72-54-8	4,4'-DDD	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:57	TJD	
72-55-9	4,4'-DDE	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:57	TJD	
50-29-3	4,4'-DDT	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:57	TJD	
309-00-2	Aldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:57	TJD	
319-84-6	alpha-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:57	TJD	
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/26/2018 07:19	11/27/2018 02:57	TJD	
319-85-7	beta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:57	TJD	
319-86-8	delta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:57	TJD	
60-57-1	Dieldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:57	TJD	
959-98-8	Endosulfan I	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:57	TJD	
33213-65-9	Endosulfan II	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/26/2018 07:19	11/27/2018 02:57	TJD	
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:57	TJD	
72-20-8	Endrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:57	TJD	
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:57	TJD	
76-44-8	Heptachlor	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:57	TJD	
Surrogate Recoveries		Result	Acceptance Range								
2051-24-3	Surrogate: Decachlorobiphenyl	58.9 %									



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Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
877-09-8	Surrogate: Tetrachloro-m-xylene	81.0 %			30-150					

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:00	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:00	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:00	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:00	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:00	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:00	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:00	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications:	11/26/2018 07:19	11/27/2018 02:00	TJD

Surrogate Recoveries

Result

Acceptance Range

877-09-8	Surrogate: Tetrachloro-m-xylene	72.3 %	30-140
2051-24-3	Surrogate: Decachlorobiphenyl	50.2 %	30-140

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	8780		mg/kg dry	5.53	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:59	KML
7440-36-0	Antimony	ND		mg/kg dry	2.77	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:59	KML
7440-38-2	Arsenic	2.01		mg/kg dry	1.66	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:59	KML
7440-39-3	Barium	71.3		mg/kg dry	2.77	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:59	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.055	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:59	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.332	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:59	KML



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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	Calcium	9990		mg/kg dry	5.53	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:59	KML
7440-47-3	Chromium	14.2		mg/kg dry	0.553	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:59	KML
7440-48-4	Cobalt	7.13		mg/kg dry	0.443	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:59	KML
7440-50-8	Copper	37.0		mg/kg dry	2.21	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:59	KML
7439-89-6	Iron	14600		mg/kg dry	27.7	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:59	KML
7439-92-1	Lead	153		mg/kg dry	0.553	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:59	KML
7439-95-4	Magnesium	2800		mg/kg dry	5.53	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:59	KML
7439-96-5	Manganese	179		mg/kg dry	0.553	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:59	KML
7440-02-0	Nickel	14.9		mg/kg dry	1.11	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:59	KML
7440-09-7	Potassium	1560	B	mg/kg dry	5.53	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:59	KML
7782-49-2	Selenium	ND		mg/kg dry	2.77	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:59	KML
7440-22-4	Silver	ND		mg/kg dry	0.553	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:59	KML
7440-23-5	Sodium	407		mg/kg dry	55.3	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:59	KML
7440-28-0	Thallium	ND		mg/kg dry	2.77	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:59	KML
7440-62-2	Vanadium	19.0		mg/kg dry	1.11	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:59	KML
7440-66-6	Zinc	70.6		mg/kg dry	2.77	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 14:59	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.200		mg/kg dry	0.0332	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/16/2018 15:23	11/16/2018 17:28	SY

Total Solids

Log-in Notes:

Sample Notes:



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<u>York Project (SDG) No.</u> 18K0636	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 14, 2018 11:04 am	<u>Date Received</u> 11/15/2018
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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	90.4		%	0.100	1	SM 2540G Certifications: CTDOH	11/26/2018 10:25	11/26/2018 13:28	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.553	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/26/2018 08:38	11/26/2018 17:08	MAC

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	14.2		mg/kg	0.500	1	Calculation Certifications:	11/30/2018 14:23	11/30/2018 14:45	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.553	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 08:26	11/26/2018 14:30	JTV

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	



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Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	NMeFOSAA	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	NEtFOSAA	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	Surrogate Recoveries	Result					Acceptance Range			
	Surrogate: 13C-PFHxA	%					70-130			
	Surrogate: 13C-PFDA	%					70-130			
	Surrogate: d5-NEtFOSAA	%					70-130			

Sample Information

Client Sample ID: SB-71A

York Sample ID: 18K0636-03

<u>York Project (SDG) No.</u> 18K0636	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 14, 2018 10:00 am	<u>Date Received</u> 11/15/2018
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Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:02	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:02	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:02	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:02	LLJ



Sample Information

Client Sample ID: SB-71A

York Sample ID: 18K0636-03

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37321-STX 27-10 49th Ave

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Volatile Organics, NYSDEC Part 375 List

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
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:02	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:02	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:02	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:02	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:02	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	54	110	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:02	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:02	LLJ
67-64-1	Acetone	ND		ug/kg dry	5.4	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:02	LLJ
71-43-2	Benzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:02	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:02	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:02	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:02	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:02	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:02	LLJ
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,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:02	LLJ
75-09-2	Methylene chloride	5.6	J	ug/kg dry	5.4	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:02	LLJ
91-20-3	Naphthalene	ND		ug/kg dry	2.7	11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:02	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:02	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:02	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/17/2018 17:21	11/18/2018 03:02	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.4	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/17/2018 17:21	11/18/2018 03:02	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:02	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:02	LLJ



Sample Information

Client Sample ID: SB-71A

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Volatile Organics, NYSDEC Part 375 List

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
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:02	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:02	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:02	LLJ
79-01-6	Trichloroethylene	2.7	J	ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:02	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:02	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.1	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/17/2018 17:21	11/18/2018 03:02	LLJ
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	106 %	77-125								
2037-26-5	Surrogate: SURR: Toluene-d8	105 %	85-120								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	114 %	76-130								

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 17:04	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 17:04	KH
83-32-9	Acenaphthene	132		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 17:04	KH
208-96-8	Acenaphthylene	281		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 17:04	KH
120-12-7	Anthracene	357		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 17:04	KH
56-55-3	Benzo(a)anthracene	1110		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 17:04	KH
50-32-8	Benzo(a)pyrene	1150		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 17:04	KH
205-99-2	Benzo(b)fluoranthene	1020		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 17:04	KH
191-24-2	Benzo(g,h,i)perylene	749		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 17:04	KH
207-08-9	Benzo(k)fluoranthene	1000		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 17:04	KH
218-01-9	Chrysene	1200		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 17:04	KH



Sample Information

Client Sample ID: SB-71A

York Sample ID: 18K0636-03

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Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53-70-3	Dibenzo(a,h)anthracene	197		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 17:04	KH
132-64-9	Dibenzofuran	100		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 17:04	KH
206-44-0	Fluoranthene	2060		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 17:04	KH
86-73-7	Fluorene	143		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 17:04	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 17:04	KH
193-39-5	Indeno(1,2,3-cd)pyrene	832		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 17:04	KH
91-20-3	Naphthalene	73.2	J	ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 17:04	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 17:04	KH
85-01-8	Phenanthrene	1600		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 17:04	KH
108-95-2	Phenol	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 17:04	KH
129-00-0	Pyrene	2170		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 17:04	KH
Surrogate Recoveries		Result			Acceptance Range						
367-12-4	Surrogate: SURR: 2-Fluorophenol	51.5 %			20-108						
4165-62-2	Surrogate: SURR: Phenol-d5	62.2 %			23-114						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	53.9 %			22-108						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	65.4 %			21-113						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	6.96 %	S-09		19-110						
1718-51-0	Surrogate: SURR: Terphenyl-d14	64.7 %			24-116						

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:12	TJD
72-55-9	4,4'-DDE	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:12	TJD
50-29-3	4,4'-DDT	35.4		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:12	TJD
309-00-2	Aldrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:12	TJD



Sample Information

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Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-84-6	alpha-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:12	TJD
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/26/2018 07:19	11/27/2018 03:12	TJD
319-85-7	beta-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:12	TJD
319-86-8	delta-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:12	TJD
60-57-1	Dieldrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:12	TJD
959-98-8	Endosulfan I	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:12	TJD
33213-65-9	Endosulfan II	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/26/2018 07:19	11/27/2018 03:12	TJD
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:12	TJD
72-20-8	Endrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:12	TJD
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:12	TJD
76-44-8	Heptachlor	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:12	TJD
	Surrogate Recoveries	Result					Acceptance Range			
2051-24-3	Surrogate: Decachlorobiphenyl	54.5 %					30-150			
877-09-8	Surrogate: Tetrachloro-m-xylene	62.5 %					30-150			

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:13	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:13	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:13	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:13	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:13	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:13	TJD
11096-82-5	Aroclor 1260	0.0242		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:13	TJD



Sample Information

Client Sample ID: SB-71A

York Sample ID: 18K0636-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 14, 2018 10:00 am

11/15/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1336-36-3	* Total PCBs	0.0242		mg/kg dry	0.0179	1	EPA 8082A	11/26/2018 07:19	11/27/2018 02:13	TJD
	Surrogate Recoveries	Result		Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	64.9 %		30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	50.2 %		30-140						

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	7990		mg/kg dry	5.38	1	EPA 6010D	11/16/2018 10:50	11/26/2018 15:01	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-36-0	Antimony	4.32		mg/kg dry	2.69	1	EPA 6010D	11/16/2018 10:50	11/26/2018 15:01	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-38-2	Arsenic	10.3		mg/kg dry	1.61	1	EPA 6010D	11/16/2018 10:50	11/26/2018 15:01	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-39-3	Barium	717		mg/kg dry	2.69	1	EPA 6010D	11/16/2018 10:50	11/26/2018 15:01	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-41-7	Beryllium	2.03		mg/kg dry	0.054	1	EPA 6010D	11/16/2018 10:50	11/26/2018 15:01	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	Cadmium	3.81		mg/kg dry	0.323	1	EPA 6010D	11/16/2018 10:50	11/26/2018 15:01	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-70-2	Calcium	34300		mg/kg dry	5.38	1	EPA 6010D	11/16/2018 10:50	11/26/2018 15:01	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	Chromium	193		mg/kg dry	0.538	1	EPA 6010D	11/16/2018 10:50	11/26/2018 15:01	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-48-4	Cobalt	21.9		mg/kg dry	0.431	1	EPA 6010D	11/16/2018 10:50	11/26/2018 15:01	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	Copper	385		mg/kg dry	2.15	1	EPA 6010D	11/16/2018 10:50	11/26/2018 15:01	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	Iron	36000		mg/kg dry	26.9	1	EPA 6010D	11/16/2018 10:50	11/26/2018 15:01	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	Lead	1830		mg/kg dry	0.538	1	EPA 6010D	11/16/2018 10:50	11/26/2018 15:01	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	Magnesium	3460		mg/kg dry	5.38	1	EPA 6010D	11/16/2018 10:50	11/26/2018 15:01	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	Manganese	337		mg/kg dry	0.538	1	EPA 6010D	11/16/2018 10:50	11/26/2018 15:01	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	Nickel	71.9		mg/kg dry	1.08	1	EPA 6010D	11/16/2018 10:50	11/26/2018 15:01	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	Potassium	1650	B	mg/kg dry	5.38	1	EPA 6010D	11/16/2018 10:50	11/26/2018 15:01	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			



Sample Information

Client Sample ID: SB-71A

York Sample ID: 18K0636-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 14, 2018 10:00 am

11/15/2018

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7782-49-2	Selenium	ND		mg/kg dry	2.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:01	KML
7440-22-4	Silver	ND		mg/kg dry	0.538	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:01	KML
7440-23-5	Sodium	664		mg/kg dry	53.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:01	KML
7440-28-0	Thallium	ND		mg/kg dry	2.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:01	KML
7440-62-2	Vanadium	41.4		mg/kg dry	1.08	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:01	KML
7440-66-6	Zinc	2570		mg/kg dry	2.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:01	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.520		mg/kg dry	0.0323	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/16/2018 15:23	11/16/2018 17:36	SY

Total Solids

Log-in Notes:

Sample Notes:

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	92.9		%	0.100	1	SM 2540G Certifications: CTDOH	11/26/2018 10:25	11/26/2018 13:28	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	12.5		mg/kg dry	0.538	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/26/2018 08:38	11/26/2018 17:08	MAC

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	180		mg/kg	0.500	1	Calculation Certifications:	11/30/2018 14:23	11/30/2018 14:45	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB-71A

York Sample ID: 18K0636-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 14, 2018 10:00 am

11/15/2018

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	0.560		mg/kg dry	0.538	1	EPA 9014/9010C	11/27/2018 08:24	11/27/2018 14:08	JTV
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	NMeFOSAA	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	NEtFOSAA	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	

Surrogate Recoveries

Result

Acceptance Range

Surrogate: 13C-PFHxA

%

70-130

Surrogate: 13C-PFDA

%

70-130

Surrogate: d5-NEtFOSAA

%

70-130



Sample Information

Client Sample ID: SB-71B

York Sample ID: 18K0636-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 14, 2018 10:15 am

11/15/2018

Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:34	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:34	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:34	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:34	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:34	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:34	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:34	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:34	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:34	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	60	120	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:34	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:34	LLJ
67-64-1	Acetone	ND		ug/kg dry	6.0	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:34	LLJ
71-43-2	Benzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:34	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:34	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:34	LLJ
67-66-3	Chloroform	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:34	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:34	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:34	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:34	LLJ
75-09-2	Methylene chloride	ND		ug/kg dry	6.0	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:34	LLJ
91-20-3	Naphthalene	ND		ug/kg dry	3.0	12	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:34	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:34	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:34	LLJ



Sample Information

Client Sample ID: SB-71B

York Sample ID: 18K0636-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 14, 2018 10:15 am

11/15/2018

Volatile Organics, NYSDEC Part 375 List

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
95-47-6	o-Xylene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/17/2018 17:21	11/18/2018 03:34	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	6.0	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/17/2018 17:21	11/18/2018 03:34	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:34	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:34	LLJ
127-18-4	Tetrachloroethylene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:34	LLJ
108-88-3	Toluene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:34	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:34	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:34	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 03:34	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	9.1	18	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/17/2018 17:21	11/18/2018 03:34	LLJ
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	109 %			77-125						
2037-26-5	Surrogate: SURR: Toluene-d8	106 %			85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	114 %			76-130						

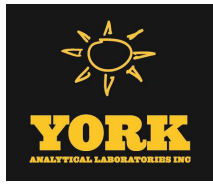
Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	50.5	101	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 17:34	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	50.5	101	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 17:34	KH
83-32-9	Acenaphthene	452		ug/kg dry	50.5	101	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 17:34	KH
208-96-8	Acenaphthylene	241		ug/kg dry	50.5	101	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 17:34	KH
120-12-7	Anthracene	1170		ug/kg dry	50.5	101	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 17:34	KH
56-55-3	Benzo(a)anthracene	12500		ug/kg dry	631	1260	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/27/2018 16:42	KH
50-32-8	Benzo(a)pyrene	12200		ug/kg dry	631	1260	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/27/2018 16:42	KH



Sample Information

Client Sample ID: SB-71B

York Sample ID: 18K0636-04

York Project (SDG) No. 18K0636

Client Project ID 37321-STX 27-10 49th Ave

Matrix Soil

Collection Date/Time November 14, 2018 10:15 am

Date Received 11/15/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

Table with columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Rows include various chemical compounds like Benzo(b)fluoranthene, Benzo(g,h,i)perylene, etc.

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

Table header for Pesticides with columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst



Sample Information

Client Sample ID: SB-71B

York Sample ID: 18K0636-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 14, 2018 10:15 am

11/15/2018

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:27	TJD
72-55-9	4,4'-DDE	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:27	TJD
50-29-3	4,4'-DDT	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:27	TJD
309-00-2	Aldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:27	TJD
319-84-6	alpha-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:27	TJD
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/26/2018 07:19	11/27/2018 03:27	TJD
319-85-7	beta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:27	TJD
319-86-8	delta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:27	TJD
60-57-1	Dieldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:27	TJD
959-98-8	Endosulfan I	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:27	TJD
33213-65-9	Endosulfan II	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/26/2018 07:19	11/27/2018 03:27	TJD
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:27	TJD
72-20-8	Endrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:27	TJD
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:27	TJD
76-44-8	Heptachlor	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:27	TJD
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	73.6 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	68.0 %	30-150							

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0201	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:27	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0201	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:27	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0201	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:27	TJD



Sample Information

Client Sample ID: SB-71B

York Sample ID: 18K0636-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

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37321-STX 27-10 49th Ave

Soil

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11/15/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0201	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:27	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0201	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:27	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0201	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:27	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0201	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:27	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0201	1	EPA 8082A Certifications:	11/26/2018 07:19	11/27/2018 02:27	TJD
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	74.8 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	53.7 %	30-140							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	10400		mg/kg dry	6.04	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:03	KML
7440-36-0	Antimony	ND		mg/kg dry	3.02	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:03	KML
7440-38-2	Arsenic	8.65		mg/kg dry	1.81	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:03	KML
7440-39-3	Barium	283		mg/kg dry	3.02	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:03	KML
7440-41-7	Beryllium	0.513		mg/kg dry	0.060	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:03	KML
7440-43-9	Cadmium	1.62		mg/kg dry	0.362	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:03	KML
7440-70-2	Calcium	6960		mg/kg dry	6.04	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:03	KML
7440-47-3	Chromium	226		mg/kg dry	0.604	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:03	KML
7440-48-4	Cobalt	10.1		mg/kg dry	0.483	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:03	KML
7440-50-8	Copper	100		mg/kg dry	2.41	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:03	KML
7439-89-6	Iron	22100		mg/kg dry	30.2	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:03	KML
7439-92-1	Lead	531		mg/kg dry	0.604	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:03	KML



Sample Information

Client Sample ID: SB-71B

York Sample ID: 18K0636-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 14, 2018 10:15 am

11/15/2018

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	Magnesium	2600		mg/kg dry	6.04	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:03	KML
7439-96-5	Manganese	355		mg/kg dry	0.604	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:03	KML
7440-02-0	Nickel	35.2		mg/kg dry	1.21	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:03	KML
7440-09-7	Potassium	1450	B	mg/kg dry	6.04	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:03	KML
7782-49-2	Selenium	ND		mg/kg dry	3.02	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:03	KML
7440-22-4	Silver	2.28		mg/kg dry	0.604	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:03	KML
7440-23-5	Sodium	1550		mg/kg dry	60.4	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:03	KML
7440-28-0	Thallium	ND		mg/kg dry	3.02	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:03	KML
7440-62-2	Vanadium	32.2		mg/kg dry	1.21	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:03	KML
7440-66-6	Zinc	588		mg/kg dry	3.02	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:03	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.322		mg/kg dry	0.0362	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/16/2018 15:23	11/16/2018 17:45	SY

Total Solids

Log-in Notes:

Sample Notes:

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	82.8		%	0.100	1	SM 2540G Certifications: CTDOH	11/26/2018 10:25	11/26/2018 13:28	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	3.04		mg/kg dry	0.604	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/26/2018 08:38	11/26/2018 17:08	MAC



Sample Information

Client Sample ID: SB-71B

York Sample ID: 18K0636-04

York Project (SDG) No.

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Soil

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11/15/2018

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	223		mg/kg	0.500	1	Calculation	11/30/2018 14:23	11/30/2018 14:45	PAM
Certifications:										

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.604	1	EPA 9014/9010C	11/27/2018 08:24	11/27/2018 14:08	JTV
Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP										

Analyzed by: Con-Test Analytical Laboratory

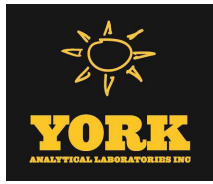
PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	NMeFOSAA	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	NEtFOSAA	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
72629-94-8	Perfluorotridecanoic acid (PFTriDA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	



Sample Information

Client Sample ID: SB-71B

York Sample ID: 18K0636-04

<u>York Project (SDG) No.</u> 18K0636	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 14, 2018 10:15 am	<u>Date Received</u> 11/15/2018
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Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	Surrogate Recoveries	Result					Acceptance Range			
	Surrogate: 13C-PFHxA	%					70-130			
	Surrogate: 13C-PFDA	%					70-130			
	Surrogate: d5-NEtFOSAA	%					70-130			

Sample Information

Client Sample ID: SB-72A

York Sample ID: 18K0636-05

<u>York Project (SDG) No.</u> 18K0636	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 14, 2018 11:14 am	<u>Date Received</u> 11/15/2018
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Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 04:07	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 04:07	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 04:07	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 04:07	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 04:07	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 04:07	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 04:07	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 04:07	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 04:07	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	55	110	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 04:07	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 04:07	LLJ



Sample Information

Client Sample ID: SB-72A

York Sample ID: 18K0636-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 14, 2018 11:14 am

11/15/2018

Volatile Organics, NYSDEC Part 375 List

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
67-64-1	Acetone	ND		ug/kg dry	5.5	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 04:07	LLJ
71-43-2	Benzene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 04:07	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 04:07	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 04:07	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 04:07	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 04:07	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 04:07	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 04:07	LLJ
75-09-2	Methylene chloride	ND		ug/kg dry	5.5	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 04:07	LLJ
91-20-3	Naphthalene	ND		ug/kg dry	2.7	11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 04:07	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 04:07	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 04:07	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/17/2018 17:21	11/18/2018 04:07	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.5	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/17/2018 17:21	11/18/2018 04:07	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 04:07	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 04:07	LLJ
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 04:07	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 04:07	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 04:07	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 04:07	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 17:21	11/18/2018 04:07	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.2	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/17/2018 17:21	11/18/2018 04:07	LLJ

Surrogate Recoveries

Result

Acceptance Range

17060-07-0 Surrogate: SURR: 1,2-Dichloroethane-d4

104 %

77-125

2037-26-5 Surrogate: SURR: Toluene-d8

104 %

85-120



Sample Information

Client Sample ID: SB-72A

York Sample ID: 18K0636-05

York Project (SDG) No.

Client Project ID

Matrix

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18K0636

37321-STX 27-10 49th Ave

Soil

November 14, 2018 11:14 am

11/15/2018

Volatile Organics, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: 460-00-4, Surrogate: SURR: p-Bromofluorobenzene, 113 %, 76-130

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Rows include 95-48-7 (2-Methylphenol), 65794-96-9 (3- & 4-Methylphenols), 83-32-9 (Acenaphthene), 208-96-8 (Acenaphthylene), 120-12-7 (Anthracene), 56-55-3 (Benzo(a)anthracene), 50-32-8 (Benzo(a)pyrene), 205-99-2 (Benzo(b)fluoranthene), 191-24-2 (Benzo(g,h,i)perylene), 207-08-9 (Benzo(k)fluoranthene), 218-01-9 (Chrysene), 53-70-3 (Dibenzo(a,h)anthracene), 132-64-9 (Dibenzofuran), 206-44-0 (Fluoranthene), 86-73-7 (Fluorene), 118-74-1 (Hexachlorobenzene), 193-39-5 (Indeno(1,2,3-cd)pyrene), 91-20-3 (Naphthalene), 87-86-5 (Pentachlorophenol)



Sample Information

Client Sample ID: SB-72A

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Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

Table with columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Rows include Phenanthrene, Phenol, Pyrene, and Surrogate Recoveries.

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

Table with columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Rows include 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, Aldrin, alpha-BHC, alpha-Chlordane, beta-BHC, delta-BHC, Dieldrin, Endosulfan I, Endosulfan II, Endosulfan sulfate, and Endrin.



Sample Information

Client Sample ID: SB-72A

York Sample ID: 18K0636-05

York Project (SDG) No.

Client Project ID

Matrix

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Soil

November 14, 2018 11:14 am

11/15/2018

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:42	TJD
76-44-8	Heptachlor	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:42	TJD
Surrogate Recoveries		Result			Acceptance Range					
2051-24-3	Surrogate: Decachlorobiphenyl	67.7 %			30-150					
877-09-8	Surrogate: Tetrachloro-m-xylene	68.2 %			30-150					

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:41	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:41	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:41	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:41	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:41	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:41	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:41	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications:	11/26/2018 07:19	11/27/2018 02:41	TJD
Surrogate Recoveries		Result			Acceptance Range					
877-09-8	Surrogate: Tetrachloro-m-xylene	54.5 %			30-140					
2051-24-3	Surrogate: Decachlorobiphenyl	37.3 %			30-140					

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	8240		mg/kg dry	5.48	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:05	KML
7440-36-0	Antimony	ND		mg/kg dry	2.74	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:05	KML
7440-38-2	Arsenic	39.6		mg/kg dry	1.64	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:05	KML



Sample Information

Client Sample ID: SB-72A

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Soil

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11/15/2018

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-39-3	Barium	433		mg/kg dry	2.74	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:05	KML
7440-41-7	Beryllium	4.34		mg/kg dry	0.055	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:05	KML
7440-43-9	Cadmium	1.29		mg/kg dry	0.329	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:05	KML
7440-70-2	Calcium	25500		mg/kg dry	5.48	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:05	KML
7440-47-3	Chromium	40.5		mg/kg dry	0.548	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:05	KML
7440-48-4	Cobalt	13.1		mg/kg dry	0.438	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:05	KML
7440-50-8	Copper	232		mg/kg dry	2.19	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:05	KML
7439-89-6	Iron	24100		mg/kg dry	27.4	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:05	KML
7439-92-1	Lead	1090		mg/kg dry	0.548	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:05	KML
7439-95-4	Magnesium	5330		mg/kg dry	5.48	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:05	KML
7439-96-5	Manganese	343		mg/kg dry	0.548	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:05	KML
7440-02-0	Nickel	29.7		mg/kg dry	1.10	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:05	KML
7440-09-7	Potassium	1100	B	mg/kg dry	5.48	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:05	KML
7782-49-2	Selenium	ND		mg/kg dry	2.74	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:05	KML
7440-22-4	Silver	ND		mg/kg dry	0.548	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:05	KML
7440-23-5	Sodium	874		mg/kg dry	54.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:05	KML
7440-28-0	Thallium	ND		mg/kg dry	2.74	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:05	KML
7440-62-2	Vanadium	26.4		mg/kg dry	1.10	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:05	KML
7440-66-6	Zinc	1560		mg/kg dry	2.74	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:05	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

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: SB-72A

York Sample ID: 18K0636-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 14, 2018 11:14 am

11/15/2018

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.643		mg/kg dry	0.0329	1	EPA 7473	11/16/2018 15:23	11/16/2018 17:53	SY
							Certifications:	CTDOH,NJDEP,NELAC-NY10854,PADEP		

Total Solids

Log-in Notes:

Sample Notes:

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	91.2		%	0.100	1	SM 2540G	11/26/2018 10:25	11/26/2018 13:28	TAJ
							Certifications:	CTDOH		

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.548	1	EPA 7196A	11/26/2018 08:38	11/26/2018 17:08	MAC
							Certifications:	NJDEP,CTDOH,NELAC-NY10854,PADEP		

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	40.5		mg/kg	0.500	1	Calculation	11/30/2018 14:23	11/30/2018 14:45	PAM
							Certifications:			

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	1.26		mg/kg dry	0.548	1	EPA 9014/9010C	11/27/2018 08:24	11/27/2018 14:08	JTV
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	



Sample Information

Client Sample ID: SB-72A

York Sample ID: 18K0636-05

<u>York Project (SDG) No.</u> 18K0636	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 14, 2018 11:14 am	<u>Date Received</u> 11/15/2018
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Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	NMeFOSAA	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	NEtFOSAA	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	Surrogate Recoveries	Result		Acceptance Range						
	Surrogate: 13C-PFHxA	%		70-130						
	Surrogate: 13C-PFDA	%		70-130						
	Surrogate: d5-NEtFOSAA	%		70-130						

Sample Information

Client Sample ID: SB-72B

York Sample ID: 18K0636-06

<u>York Project (SDG) No.</u> 18K0636	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 14, 2018 11:20 am	<u>Date Received</u> 11/15/2018
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Volatile Organics, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB-72B

York Sample ID: 18K0636-06

<u>York Project (SDG) No.</u> 18K0636	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 14, 2018 11:20 am	<u>Date Received</u> 11/15/2018
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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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 09:30	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 09:30	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 09:30	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 09:30	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 09:30	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 09:30	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 09:30	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 09:30	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 09:30	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	60	120	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 09:30	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 09:30	LLJ
67-64-1	Acetone	ND		ug/kg dry	6.0	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 09:30	LLJ
71-43-2	Benzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 09:30	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 09:30	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 09:30	LLJ
67-66-3	Chloroform	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 09:30	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 09:30	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 09:30	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 09:30	LLJ
75-09-2	Methylene chloride	7.9	J	ug/kg dry	6.0	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 09:30	LLJ
91-20-3	Naphthalene	ND		ug/kg dry	3.0	12	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 09:30	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 09:30	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 09:30	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/18/2018 06:16	11/18/2018 09:30	LLJ



Sample Information

Client Sample ID: SB-72B

York Sample ID: 18K0636-06

York Project (SDG) No.

Client Project ID

Matrix

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Soil

November 14, 2018 11:20 am

11/15/2018

Volatile Organics, NYSDEC Part 375 List

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
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	6.0	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/18/2018 06:16	11/18/2018 09:30	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 09:30	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 09:30	LLJ
127-18-4	Tetrachloroethylene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 09:30	LLJ
108-88-3	Toluene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 09:30	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 09:30	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 09:30	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 09:30	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.9	18	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/18/2018 06:16	11/18/2018 09:30	LLJ
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	106 %	77-125								
2037-26-5	Surrogate: SURRE: Toluene-d8	105 %	85-120								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	115 %	76-130								

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	46.2	92.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 18:34	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	46.2	92.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 18:34	KH
83-32-9	Acenaphthene	ND		ug/kg dry	46.2	92.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 18:34	KH
208-96-8	Acenaphthylene	108		ug/kg dry	46.2	92.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 18:34	KH
120-12-7	Anthracene	132		ug/kg dry	46.2	92.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 18:34	KH
56-55-3	Benzo(a)anthracene	551		ug/kg dry	46.2	92.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 18:34	KH
50-32-8	Benzo(a)pyrene	528		ug/kg dry	46.2	92.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 18:34	KH
205-99-2	Benzo(b)fluoranthene	442		ug/kg dry	46.2	92.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 18:34	KH



Sample Information

Client Sample ID: SB-72B

York Sample ID: 18K0636-06

York Project (SDG) No.

Client Project ID

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Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	Benzo(g,h,i)perylene	346		ug/kg dry	46.2	92.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 18:34	KH
207-08-9	Benzo(k)fluoranthene	468		ug/kg dry	46.2	92.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 18:34	KH
218-01-9	Chrysene	550		ug/kg dry	46.2	92.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 18:34	KH
53-70-3	Dibenzo(a,h)anthracene	89.2	J	ug/kg dry	46.2	92.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 18:34	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	46.2	92.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 18:34	KH
206-44-0	Fluoranthene	928		ug/kg dry	46.2	92.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 18:34	KH
86-73-7	Fluorene	ND		ug/kg dry	46.2	92.2	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 18:34	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	46.2	92.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 18:34	KH
193-39-5	Indeno(1,2,3-cd)pyrene	376		ug/kg dry	46.2	92.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 18:34	KH
91-20-3	Naphthalene	ND		ug/kg dry	46.2	92.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 18:34	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	46.2	92.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 18:34	KH
85-01-8	Phenanthrene	541		ug/kg dry	46.2	92.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 18:34	KH
108-95-2	Phenol	ND		ug/kg dry	46.2	92.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 18:34	KH
129-00-0	Pyrene	940		ug/kg dry	46.2	92.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 18:34	KH

Surrogate Recoveries

Result

Acceptance Range

367-12-4	Surrogate: SURR: 2-Fluorophenol	72.2 %	20-108
4165-62-2	Surrogate: SURR: Phenol-d5	73.0 %	23-114
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	58.7 %	22-108
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	74.9 %	21-113
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	67.5 %	19-110
1718-51-0	Surrogate: SURR: Terphenyl-d14	82.5 %	24-116

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:57	TJD



Sample Information

Client Sample ID: SB-72B

York Sample ID: 18K0636-06

York Project (SDG) No.

Client Project ID

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Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-55-9	4,4'-DDE	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:57	TJD
50-29-3	4,4'-DDT	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:57	TJD
309-00-2	Aldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:57	TJD
319-84-6	alpha-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:57	TJD
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/26/2018 07:19	11/27/2018 03:57	TJD
319-85-7	beta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:57	TJD
319-86-8	delta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:57	TJD
60-57-1	Dieldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:57	TJD
959-98-8	Endosulfan I	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:57	TJD
33213-65-9	Endosulfan II	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/26/2018 07:19	11/27/2018 03:57	TJD
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:57	TJD
72-20-8	Endrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:57	TJD
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:57	TJD
76-44-8	Heptachlor	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:57	TJD
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	56.4 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	58.2 %	30-150							

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0185	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:54	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0185	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:54	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0185	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:54	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0185	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:54	TJD



Sample Information

Client Sample ID: SB-72B

York Sample ID: 18K0636-06

York Project (SDG) No.

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November 14, 2018 11:20 am

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Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0185	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:54	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0185	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:54	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0185	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 02:54	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0185	1	EPA 8082A Certifications:	11/26/2018 07:19	11/27/2018 02:54	TJD
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	61.4 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	40.8 %	30-140							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	6790		mg/kg dry	5.55	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:07	KML
7440-36-0	Antimony	ND		mg/kg dry	2.77	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:07	KML
7440-38-2	Arsenic	ND		mg/kg dry	1.66	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:07	KML
7440-39-3	Barium	134		mg/kg dry	2.77	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:07	KML
7440-41-7	Beryllium	0.484		mg/kg dry	0.055	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:07	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.333	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:07	KML
7440-70-2	Calcium	3230		mg/kg dry	5.55	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:07	KML
7440-47-3	Chromium	18.3		mg/kg dry	0.555	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:07	KML
7440-48-4	Cobalt	7.62		mg/kg dry	0.444	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:07	KML
7440-50-8	Copper	61.1		mg/kg dry	2.22	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:07	KML
7439-89-6	Iron	12100		mg/kg dry	27.7	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:07	KML
7439-92-1	Lead	458		mg/kg dry	0.555	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:07	KML
7439-95-4	Magnesium	2160		mg/kg dry	5.55	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:07	KML
7439-96-5	Manganese	267		mg/kg dry	0.555	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:07	KML



Sample Information

Client Sample ID: SB-72B

York Sample ID: 18K0636-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 14, 2018 11:20 am

11/15/2018

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-02-0	Nickel	16.1		mg/kg dry	1.11	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:07	KML
7440-09-7	Potassium	919	B	mg/kg dry	5.55	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:07	KML
7782-49-2	Selenium	ND		mg/kg dry	2.77	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:07	KML
7440-22-4	Silver	3.73		mg/kg dry	0.555	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:07	KML
7440-23-5	Sodium	497		mg/kg dry	55.5	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:07	KML
7440-28-0	Thallium	ND		mg/kg dry	2.77	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:07	KML
7440-62-2	Vanadium	16.6		mg/kg dry	1.11	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:07	KML
7440-66-6	Zinc	344		mg/kg dry	2.77	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:07	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.0856		mg/kg dry	0.0333	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/16/2018 15:23	11/16/2018 18:06	SY

Total Solids

Log-in Notes:

Sample Notes:

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	90.2		%	0.100	1	SM 2540G Certifications: CTDOH	11/26/2018 10:25	11/26/2018 13:28	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	2.40		mg/kg dry	0.555	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/26/2018 08:38	11/26/2018 17:08	MAC

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

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: SB-72B

York Sample ID: 18K0636-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 14, 2018 11:20 am

11/15/2018

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	15.9		mg/kg	0.500	1	Calculation	11/30/2018 14:23	11/30/2018 14:45	PAM
Certifications:										

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.555	1	EPA 9014/9010C	11/27/2018 08:24	11/27/2018 14:08	JTV
Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP										

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	NMeFOSAA	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	NEtFOSAA	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
72629-94-8	Perfluorotridecanoic acid (PFTriDA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	



Sample Information

Client Sample ID: SB-72B

York Sample ID: 18K0636-06

<u>York Project (SDG) No.</u> 18K0636	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 14, 2018 11:20 am	<u>Date Received</u> 11/15/2018
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Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	Surrogate Recoveries	Result					Acceptance Range			
	Surrogate: 13C-PFHxA	%					70-130			
	Surrogate: 13C-PFDA	%					70-130			
	Surrogate: d5-NEtFOSAA	%					70-130			

Sample Information

Client Sample ID: SB-72C

York Sample ID: 18K0636-07

<u>York Project (SDG) No.</u> 18K0636	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 14, 2018 11:40 am	<u>Date Received</u> 11/15/2018
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Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:19	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:19	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:19	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:19	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:19	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:19	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:19	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:19	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:19	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	61	120	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:19	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:19	LLJ



Sample Information

Client Sample ID: SB-72C

York Sample ID: 18K0636-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 14, 2018 11:40 am

11/15/2018

Volatile Organics, NYSDEC Part 375 List

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
67-64-1	Acetone	ND		ug/kg dry	6.1	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:19	LLJ
71-43-2	Benzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:19	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:19	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:19	LLJ
67-66-3	Chloroform	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:19	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:19	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:19	LLJ
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,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:19	LLJ
75-09-2	Methylene chloride	ND		ug/kg dry	6.1	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:19	LLJ
91-20-3	Naphthalene	3.8	B, J	ug/kg dry	3.1	12	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:19	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:19	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:19	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/20/2018 15:20	11/20/2018 19:19	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	6.1	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/20/2018 15:20	11/20/2018 19:19	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:19	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:19	LLJ
127-18-4	Tetrachloroethylene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:19	LLJ
108-88-3	Toluene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:19	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:19	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:19	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:19	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	9.2	18	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/20/2018 15:20	11/20/2018 19:19	LLJ
	Surrogate Recoveries	Result		Acceptance Range							
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	93.9 %		77-125							



Sample Information

Client Sample ID: SB-72C

York Sample ID: 18K0636-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 14, 2018 11:40 am

11/15/2018

Volatile Organics, NYSDEC Part 375 List

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
2037-26-5	Surrogate: SURR: Toluene-d8	105 %			85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	103 %			76-130						

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:04	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:04	KH
83-32-9	Acenaphthene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:04	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:04	KH
120-12-7	Anthracene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:04	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:04	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:04	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:04	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:04	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:04	KH
218-01-9	Chrysene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:04	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:04	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:04	KH
206-44-0	Fluoranthene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:04	KH
86-73-7	Fluorene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:04	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:04	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:04	KH
91-20-3	Naphthalene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:04	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:04	KH



Sample Information

Client Sample ID: SB-72C

York Sample ID: 18K0636-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 14, 2018 11:40 am

11/15/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-01-8	Phenanthrene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:04	KH
108-95-2	Phenol	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:04	KH
129-00-0	Pyrene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:04	KH
Surrogate Recoveries		Result			Acceptance Range						
367-12-4	Surrogate: SURR: 2-Fluorophenol	84.7 %			20-108						
4165-62-2	Surrogate: SURR: Phenol-d5	81.6 %			23-114						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	61.5 %			22-108						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	82.0 %			21-113						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	69.0 %			19-110						
1718-51-0	Surrogate: SURR: Terphenyl-d14	78.6 %			24-116						

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:12	TJD
72-55-9	4,4'-DDE	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:12	TJD
50-29-3	4,4'-DDT	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:12	TJD
309-00-2	Aldrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:12	TJD
319-84-6	alpha-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:12	TJD
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/26/2018 07:19	11/27/2018 04:12	TJD
319-85-7	beta-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:12	TJD
319-86-8	delta-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:12	TJD
60-57-1	Dieldrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:12	TJD
959-98-8	Endosulfan I	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:12	TJD
33213-65-9	Endosulfan II	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/26/2018 07:19	11/27/2018 04:12	TJD
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:12	TJD
72-20-8	Endrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:12	TJD



Sample Information

Client Sample ID: SB-72C

York Sample ID: 18K0636-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 14, 2018 11:40 am

11/15/2018

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:12	TJD
76-44-8	Heptachlor	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:12	TJD
Surrogate Recoveries		Result		Acceptance Range						
2051-24-3	Surrogate: Decachlorobiphenyl	60.5 %		30-150						
877-09-8	Surrogate: Tetrachloro-m-xylene	77.9 %		30-150						

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:08	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:08	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:08	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:08	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:08	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:08	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 03:08	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications:	11/26/2018 07:19	11/27/2018 03:08	TJD
Surrogate Recoveries		Result		Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	70.8 %		30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	43.8 %		30-140						

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	3910		mg/kg dry	5.34	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:10	KML
7440-36-0	Antimony	ND		mg/kg dry	2.67	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:10	KML
7440-38-2	Arsenic	ND		mg/kg dry	1.60	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:10	KML



Sample Information

Client Sample ID: SB-72C

York Sample ID: 18K0636-07

York Project (SDG) No.

Client Project ID

Matrix

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18K0636

37321-STX 27-10 49th Ave

Soil

November 14, 2018 11:40 am

11/15/2018

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-39-3	Barium	34.0		mg/kg dry	2.67	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:10	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.053	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:10	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.321	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:10	KML
7440-70-2	Calcium	1080		mg/kg dry	5.34	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:10	KML
7440-47-3	Chromium	7.55		mg/kg dry	0.534	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:10	KML
7440-48-4	Cobalt	4.15		mg/kg dry	0.427	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:10	KML
7440-50-8	Copper	9.30		mg/kg dry	2.14	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:10	KML
7439-89-6	Iron	7290		mg/kg dry	26.7	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:10	KML
7439-92-1	Lead	3.62		mg/kg dry	0.534	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:10	KML
7439-95-4	Magnesium	1550		mg/kg dry	5.34	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:10	KML
7439-96-5	Manganese	214		mg/kg dry	0.534	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:10	KML
7440-02-0	Nickel	8.08		mg/kg dry	1.07	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:10	KML
7440-09-7	Potassium	837	B	mg/kg dry	5.34	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:10	KML
7782-49-2	Selenium	ND		mg/kg dry	2.67	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:10	KML
7440-22-4	Silver	ND		mg/kg dry	0.534	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:10	KML
7440-23-5	Sodium	321		mg/kg dry	53.4	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:10	KML
7440-28-0	Thallium	ND		mg/kg dry	2.67	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:10	KML
7440-62-2	Vanadium	11.3		mg/kg dry	1.07	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:10	KML
7440-66-6	Zinc	51.2		mg/kg dry	2.67	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:10	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

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: SB-72C

York Sample ID: 18K0636-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 14, 2018 11:40 am

11/15/2018

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0321	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/16/2018 15:23	11/16/2018 18:14	SY

Total Solids

Log-in Notes:

Sample Notes:

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	93.6		%	0.100	1	SM 2540G Certifications: CTDOH	11/26/2018 10:25	11/26/2018 13:28	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.534	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/26/2018 08:38	11/26/2018 17:08	MAC

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	7.55		mg/kg	0.500	1	Calculation Certifications:	11/30/2018 14:23	11/30/2018 14:45	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.534	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/27/2018 08:24	11/27/2018 14:08	JTV

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	



Sample Information

Client Sample ID: SB-72C

York Sample ID: 18K0636-07

<u>York Project (SDG) No.</u> 18K0636	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 14, 2018 11:40 am	<u>Date Received</u> 11/15/2018
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Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	NMeFOSAA	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	NEtFOSAA	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	Surrogate Recoveries	Result		Acceptance Range						
	Surrogate: 13C-PFHxA	%		70-130						
	Surrogate: 13C-PFDA	%		70-130						
	Surrogate: d5-NEtFOSAA	%		70-130						

Sample Information

Client Sample ID: SB-73A

York Sample ID: 18K0636-08

<u>York Project (SDG) No.</u> 18K0636	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 14, 2018 12:18 pm	<u>Date Received</u> 11/15/2018
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Volatile Organics, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB-73A

York Sample ID: 18K0636-08

<u>York Project (SDG) No.</u> 18K0636	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 14, 2018 12:18 pm	<u>Date Received</u> 11/15/2018
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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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 10:35	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 10:35	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 10:35	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 10:35	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 10:35	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 10:35	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 10:35	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 10:35	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 10:35	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	58	120	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 10:35	LLJ
78-93-3	2-Butanone	7.2		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 10:35	LLJ
67-64-1	Acetone	21		ug/kg dry	5.8	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 10:35	LLJ
71-43-2	Benzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 10:35	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 10:35	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 10:35	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 10:35	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 10:35	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 10:35	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 10:35	LLJ
75-09-2	Methylene chloride	7.2	J	ug/kg dry	5.8	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 10:35	LLJ
91-20-3	Naphthalene	ND		ug/kg dry	2.9	12	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 10:35	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 10:35	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 10:35	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/18/2018 06:16	11/18/2018 10:35	LLJ



Sample Information

Client Sample ID: SB-73A

York Sample ID: 18K0636-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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37321-STX 27-10 49th Ave

Soil

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11/15/2018

Volatile Organics, NYSDEC Part 375 List

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
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.8	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/18/2018 06:16	11/18/2018 10:35	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 10:35	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 10:35	LLJ
127-18-4	Tetrachloroethylene	2.9	J	ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 10:35	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 10:35	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 10:35	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 10:35	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/18/2018 06:16	11/18/2018 10:35	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.7	17	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/18/2018 06:16	11/18/2018 10:35	LLJ
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	105 %	77-125								
2037-26-5	Surrogate: SURRE: Toluene-d8	106 %	85-120								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	122 %	76-130								

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	228	454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:34	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	228	454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:34	KH
83-32-9	Acenaphthene	ND		ug/kg dry	228	454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:34	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	228	454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:34	KH
120-12-7	Anthracene	ND		ug/kg dry	228	454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:34	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	228	454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:34	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	228	454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:34	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	228	454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:34	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	228	454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:34	KH



Sample Information

Client Sample ID: SB-73A

York Sample ID: 18K0636-08

York Project (SDG) No.

Client Project ID

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Soil

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Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	228	454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:34	KH
218-01-9	Chrysene	229	J	ug/kg dry	228	454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:34	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	228	454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:34	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	228	454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:34	KH
206-44-0	Fluoranthene	251	J	ug/kg dry	228	454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:34	KH
86-73-7	Fluorene	ND		ug/kg dry	228	454	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:34	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	228	454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:34	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	228	454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:34	KH
91-20-3	Naphthalene	ND		ug/kg dry	228	454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:34	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	228	454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:34	KH
85-01-8	Phenanthrene	ND		ug/kg dry	228	454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:34	KH
108-95-2	Phenol	ND		ug/kg dry	228	454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:34	KH
129-00-0	Pyrene	345	J	ug/kg dry	228	454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 19:34	KH

Surrogate Recoveries

Result

Acceptance Range

367-12-4	Surrogate: SURRE: 2-Fluorophenol	50.8 %	20-108
4165-62-2	Surrogate: SURRE: Phenol-d5	57.6 %	23-114
4165-60-0	Surrogate: SURRE: Nitrobenzene-d5	43.6 %	22-108
321-60-8	Surrogate: SURRE: 2-Fluorobiphenyl	58.0 %	21-113
118-79-6	Surrogate: SURRE: 2,4,6-Tribromophenol	22.2 %	19-110
1718-51-0	Surrogate: SURRE: Terphenyl-d14	60.4 %	24-116

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:27	TJD
72-55-9	4,4'-DDE	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:27	TJD
50-29-3	4,4'-DDT	2.45		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:27	TJD



Sample Information

Client Sample ID: SB-73A

York Sample ID: 18K0636-08

York Project (SDG) No.

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Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
309-00-2	Aldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:27	TJD
319-84-6	alpha-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:27	TJD
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/26/2018 07:19	11/27/2018 04:27	TJD
319-85-7	beta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:27	TJD
319-86-8	delta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:27	TJD
60-57-1	Dieldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:27	TJD
959-98-8	Endosulfan I	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:27	TJD
33213-65-9	Endosulfan II	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/26/2018 07:19	11/27/2018 04:27	TJD
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:27	TJD
72-20-8	Endrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:27	TJD
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:27	TJD
76-44-8	Heptachlor	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:27	TJD
	Surrogate Recoveries	Result					Acceptance Range			
2051-24-3	Surrogate: Decachlorobiphenyl	67.4 %					30-150			
877-09-8	Surrogate: Tetrachloro-m-xylene	46.7 %					30-150			

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 09:02	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 09:02	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 09:02	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 09:02	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 09:02	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 09:02	TJD



Sample Information

Client Sample ID: SB-73A

York Sample ID: 18K0636-08

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37321-STX 27-10 49th Ave

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Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 09:02	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications:	11/26/2018 07:19	11/27/2018 09:02	TJD
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	68.3 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	47.8 %	30-140							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	8200		mg/kg dry	5.45	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:12	KML
7440-36-0	Antimony	ND		mg/kg dry	2.72	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:12	KML
7440-38-2	Arsenic	9.18		mg/kg dry	1.63	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:12	KML
7440-39-3	Barium	421		mg/kg dry	2.72	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:12	KML
7440-41-7	Beryllium	0.277		mg/kg dry	0.054	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:12	KML
7440-43-9	Cadmium	0.664		mg/kg dry	0.327	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:12	KML
7440-70-2	Calcium	57700		mg/kg dry	5.45	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:12	KML
7440-47-3	Chromium	12.5		mg/kg dry	0.545	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:12	KML
7440-48-4	Cobalt	7.31		mg/kg dry	0.436	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:12	KML
7440-50-8	Copper	106		mg/kg dry	2.18	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:12	KML
7439-89-6	Iron	17300		mg/kg dry	27.2	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:12	KML
7439-92-1	Lead	656		mg/kg dry	0.545	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:12	KML
7439-95-4	Magnesium	9100		mg/kg dry	5.45	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:12	KML
7439-96-5	Manganese	273		mg/kg dry	0.545	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:12	KML
7440-02-0	Nickel	19.6		mg/kg dry	1.09	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:12	KML



Sample Information

Client Sample ID: SB-73A

York Sample ID: 18K0636-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 14, 2018 12:18 pm

11/15/2018

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	Potassium	2280	B	mg/kg dry	5.45	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:12	KML
7782-49-2	Selenium	ND		mg/kg dry	2.72	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:12	KML
7440-22-4	Silver	ND		mg/kg dry	0.545	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:12	KML
7440-23-5	Sodium	2530		mg/kg dry	54.5	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:12	KML
7440-28-0	Thallium	ND		mg/kg dry	2.72	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:12	KML
7440-62-2	Vanadium	25.9		mg/kg dry	1.09	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:12	KML
7440-66-6	Zinc	479		mg/kg dry	2.72	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:12	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.259		mg/kg dry	0.0327	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/16/2018 15:23	11/16/2018 18:22	SY

Total Solids

Log-in Notes:

Sample Notes:

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	91.8		%	0.100	1	SM 2540G Certifications: CTDOH	11/26/2018 10:25	11/26/2018 13:28	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.545	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/26/2018 08:38	11/26/2018 17:08	MAC

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	12.5		mg/kg	0.500	1	Calculation Certifications:	11/30/2018 14:23	11/30/2018 14:45	PAM



Sample Information

Client Sample ID: SB-73A

York Sample ID: 18K0636-08

York Project (SDG) No.

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Soil

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11/15/2018

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	0.670		mg/kg dry	0.545	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/27/2018 08:24	11/27/2018 14:08	JTV

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	NMeFOSAA	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	NEtFOSAA	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	Surrogate Recoveries	Result					Acceptance Range			
	Surrogate: 13C-PFHxA	%					70-130			
	Surrogate: 13C-PFDA	%					70-130			
	Surrogate: d5-NEtFOSAA	%					70-130			



Sample Information

Client Sample ID: SB-73A

York Sample ID: 18K0636-08

<u>York Project (SDG) No.</u> 18K0636	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 14, 2018 12:18 pm	<u>Date Received</u> 11/15/2018
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Sample Information

Client Sample ID: SB-73B

York Sample ID: 18K0636-09

<u>York Project (SDG) No.</u> 18K0636	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 14, 2018 12:37 pm	<u>Date Received</u> 11/15/2018
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Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	5.1	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:48	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	5.1	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:48	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	5.1	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:48	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND	IS-LO	ug/kg dry	5.1	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:48	LLJ
95-50-1	1,2-Dichlorobenzene	ND	IS-LO	ug/kg dry	5.1	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:48	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	5.1	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:48	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND	IS-LO	ug/kg dry	5.1	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:48	LLJ
541-73-1	1,3-Dichlorobenzene	ND	IS-LO	ug/kg dry	5.1	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:48	LLJ
106-46-7	1,4-Dichlorobenzene	ND	IS-LO	ug/kg dry	5.1	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:48	LLJ
123-91-1	1,4-Dioxane	ND	IS-LO	ug/kg dry	100	210	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:48	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	5.1	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:48	LLJ
67-64-1	Acetone	14	J	ug/kg dry	10	21	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:48	LLJ
71-43-2	Benzene	ND		ug/kg dry	5.1	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:48	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	5.1	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:48	LLJ
108-90-7	Chlorobenzene	ND	IS-LO	ug/kg dry	5.1	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:48	LLJ
67-66-3	Chloroform	6.1	J	ug/kg dry	5.1	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:48	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	5.1	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:48	LLJ
100-41-4	Ethyl Benzene	ND	IS-LO	ug/kg dry	5.1	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:48	LLJ



Sample Information

Client Sample ID: SB-73B

York Sample ID: 18K0636-09

York Project (SDG) No.

Client Project ID

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Collection Date/Time

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Soil

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11/15/2018

Volatile Organics, NYSDEC Part 375 List

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
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	5.1	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:48	LLJ
75-09-2	Methylene chloride	13	J	ug/kg dry	10	21	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:48	LLJ
91-20-3	Naphthalene	30	IS-LO, B	ug/kg dry	5.1	21	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:48	LLJ
104-51-8	n-Butylbenzene	ND	IS-LO	ug/kg dry	5.1	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:48	LLJ
103-65-1	n-Propylbenzene	ND	IS-LO	ug/kg dry	5.1	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:48	LLJ
95-47-6	o-Xylene	ND	IS-LO	ug/kg dry	5.1	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/20/2018 15:20	11/20/2018 19:48	LLJ
179601-23-1	p- & m- Xylenes	ND	IS-LO	ug/kg dry	10	21	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/20/2018 15:20	11/20/2018 19:48	LLJ
135-98-8	sec-Butylbenzene	ND	IS-LO	ug/kg dry	5.1	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:48	LLJ
98-06-6	tert-Butylbenzene	ND	IS-LO	ug/kg dry	5.1	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:48	LLJ
127-18-4	Tetrachloroethylene	20	IS-LO	ug/kg dry	5.1	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:48	LLJ
108-88-3	Toluene	ND	IS-LO	ug/kg dry	5.1	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:48	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	5.1	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:48	LLJ
79-01-6	Trichloroethylene	ND	IS-LO	ug/kg dry	5.1	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:48	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	5.1	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 19:48	LLJ
1330-20-7	Xylenes, Total	ND	IS-LO	ug/kg dry	15	31	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/20/2018 15:20	11/20/2018 19:48	LLJ
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	108 %									
2037-26-5	Surrogate: SURR: Toluene-d8	176 %	S-08								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	113 %									

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	47.3	94.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 20:04	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	47.3	94.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 20:04	KH
83-32-9	Acenaphthene	61.1	J	ug/kg dry	47.3	94.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 20:04	KH



Sample Information

Client Sample ID: SB-73B

York Sample ID: 18K0636-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

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Soil

November 14, 2018 12:37 pm

11/15/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
208-96-8	Acenaphthylene	144		ug/kg dry	47.3	94.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 20:04	KH
120-12-7	Anthracene	263		ug/kg dry	47.3	94.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 20:04	KH
56-55-3	Benzo(a)anthracene	1040		ug/kg dry	47.3	94.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 20:04	KH
50-32-8	Benzo(a)pyrene	983		ug/kg dry	47.3	94.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 20:04	KH
205-99-2	Benzo(b)fluoranthene	900		ug/kg dry	47.3	94.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 20:04	KH
191-24-2	Benzo(g,h,i)perylene	585		ug/kg dry	47.3	94.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 20:04	KH
207-08-9	Benzo(k)fluoranthene	796		ug/kg dry	47.3	94.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 20:04	KH
218-01-9	Chrysene	1110		ug/kg dry	47.3	94.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 20:04	KH
53-70-3	Dibenzo(a,h)anthracene	157		ug/kg dry	47.3	94.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 20:04	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	47.3	94.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 20:04	KH
206-44-0	Fluoranthene	1670		ug/kg dry	47.3	94.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 20:04	KH
86-73-7	Fluorene	79.2	J	ug/kg dry	47.3	94.4	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 20:04	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	47.3	94.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 20:04	KH
193-39-5	Indeno(1,2,3-cd)pyrene	673		ug/kg dry	47.3	94.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 20:04	KH
91-20-3	Naphthalene	ND		ug/kg dry	47.3	94.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 20:04	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	47.3	94.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 20:04	KH
85-01-8	Phenanthrene	1040		ug/kg dry	47.3	94.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 20:04	KH
108-95-2	Phenol	ND		ug/kg dry	47.3	94.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 20:04	KH
129-00-0	Pyrene	1820		ug/kg dry	47.3	94.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:23	11/26/2018 20:04	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	Surrogate: SURR: 2-Fluorophenol	71.3 %	20-108
4165-62-2	Surrogate: SURR: Phenol-d5	72.5 %	23-114
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	55.6 %	22-108
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	69.8 %	21-113
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	61.9 %	19-110



Sample Information

Client Sample ID: SB-73B

York Sample ID: 18K0636-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 14, 2018 12:37 pm

11/15/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1718-51-0	Surrogate: SURR: Terphenyl-d14	70.2 %			24-116						

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:42	TJD
72-55-9	4,4'-DDE	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:42	TJD
50-29-3	4,4'-DDT	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:42	TJD
309-00-2	Aldrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:42	TJD
319-84-6	alpha-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:42	TJD
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/26/2018 07:19	11/27/2018 04:42	TJD
319-85-7	beta-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:42	TJD
319-86-8	delta-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:42	TJD
60-57-1	Dieldrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:42	TJD
959-98-8	Endosulfan I	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:42	TJD
33213-65-9	Endosulfan II	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/26/2018 07:19	11/27/2018 04:42	TJD
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:42	TJD
72-20-8	Endrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:42	TJD
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:42	TJD
76-44-8	Heptachlor	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:42	TJD
	Surrogate Recoveries	Result								Acceptance Range
2051-24-3	Surrogate: Decachlorobiphenyl	55.4 %								30-150
877-09-8	Surrogate: Tetrachloro-m-xylene	70.2 %								30-150

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

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: SB-73B

York Sample ID: 18K0636-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 14, 2018 12:37 pm

11/15/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 09:16	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 09:16	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 09:16	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 09:16	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 09:16	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 09:16	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 09:16	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications:	11/26/2018 07:19	11/27/2018 09:16	TJD
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	58.9 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	41.8 %	30-140							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	5090		mg/kg dry	5.68	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:14	KML
7440-36-0	Antimony	ND		mg/kg dry	2.84	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:14	KML
7440-38-2	Arsenic	42.6		mg/kg dry	1.70	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:14	KML
7440-39-3	Barium	217		mg/kg dry	2.84	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:14	KML
7440-41-7	Beryllium	0.374		mg/kg dry	0.057	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:14	KML
7440-43-9	Cadmium	0.420		mg/kg dry	0.341	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:14	KML
7440-70-2	Calcium	9290		mg/kg dry	5.68	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:14	KML
7440-47-3	Chromium	14.0		mg/kg dry	0.568	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:14	KML
7440-48-4	Cobalt	6.09		mg/kg dry	0.454	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:14	KML



Sample Information

Client Sample ID: SB-73B

York Sample ID: 18K0636-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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18K0636

37321-STX 27-10 49th Ave

Soil

November 14, 2018 12:37 pm

11/15/2018

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	141		mg/kg dry	2.27	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:14	KML
7439-89-6	Iron	16000		mg/kg dry	28.4	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:14	KML
7439-92-1	Lead	283		mg/kg dry	0.568	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:14	KML
7439-95-4	Magnesium	1460		mg/kg dry	5.68	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:14	KML
7439-96-5	Manganese	129		mg/kg dry	0.568	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:14	KML
7440-02-0	Nickel	17.3		mg/kg dry	1.14	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:14	KML
7440-09-7	Potassium	756	B	mg/kg dry	5.68	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:14	KML
7782-49-2	Selenium	ND		mg/kg dry	2.84	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:14	KML
7440-22-4	Silver	ND		mg/kg dry	0.568	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:14	KML
7440-23-5	Sodium	889		mg/kg dry	56.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:14	KML
7440-28-0	Thallium	ND		mg/kg dry	2.84	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:14	KML
7440-62-2	Vanadium	17.0		mg/kg dry	1.14	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:14	KML
7440-66-6	Zinc	275		mg/kg dry	2.84	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:14	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.588		mg/kg dry	0.0341	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/16/2018 15:23	11/16/2018 18:31	SY

Total Solids

Log-in Notes:

Sample Notes:

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	88.1		%	0.100	1	SM 2540G Certifications: CTDOH	11/26/2018 10:25	11/26/2018 13:28	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB-73B

York Sample ID: 18K0636-09

<u>York Project (SDG) No.</u> 18K0636	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 14, 2018 12:37 pm	<u>Date Received</u> 11/15/2018
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Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.568	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/26/2018 08:38	11/26/2018 17:08	MAC

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	14.0		mg/kg	0.500	1	Calculation Certifications:	11/30/2018 14:23	11/30/2018 14:45	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	0.573		mg/kg dry	0.568	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/27/2018 08:24	11/27/2018 14:08	JTV

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	NMeFOSAA	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	



Sample Information

Client Sample ID: SB-73B

York Sample ID: 18K0636-09

<u>York Project (SDG) No.</u> 18K0636	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 14, 2018 12:37 pm	<u>Date Received</u> 11/15/2018
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Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	NEtFOSAA	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	Surrogate Recoveries	Result		Acceptance Range						
	Surrogate: 13C-PFHxA	%		70-130						
	Surrogate: 13C-PFDA	%		70-130						
	Surrogate: d5-NEtFOSAA	%		70-130						

Sample Information

Client Sample ID: SB-73C

York Sample ID: 18K0636-10

<u>York Project (SDG) No.</u> 18K0636	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 14, 2018 12:45 pm	<u>Date Received</u> 11/15/2018
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Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 20:18	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 20:18	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 20:18	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 20:18	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 20:18	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 20:18	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 20:18	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 20:18	LLJ



Sample Information

Client Sample ID: SB-73C

York Sample ID: 18K0636-10

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Volatile Organics, NYSDEC Part 375 List

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
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 20:18	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	42	84	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 20:18	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 20:18	LLJ
67-64-1	Acetone	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 20:18	LLJ
71-43-2	Benzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 20:18	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 20:18	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 20:18	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 20:18	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 20:18	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 20:18	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 20:18	LLJ
75-09-2	Methylene chloride	7.9	J	ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 20:18	LLJ
91-20-3	Naphthalene	2.1	B, J	ug/kg dry	2.1	8.4	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 20:18	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 20:18	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 20:18	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/20/2018 15:20	11/20/2018 20:18	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/20/2018 15:20	11/20/2018 20:18	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 20:18	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 20:18	LLJ
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 20:18	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 20:18	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 20:18	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 20:18	LLJ



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Volatile Organics, NYSDEC Part 375 List

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
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY 10854,NELAC-NY 12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 20:18	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	6.3	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY 10854,NELAC-NY 12058,NJDEP	11/20/2018 15:20	11/20/2018 20:18	LLJ
	Surrogate Recoveries	Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	93.1 %			77-125						
2037-26-5	Surrogate: SURR: Toluene-d8	106 %			85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	105 %			76-130						

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	47.2	94.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 09:09	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	47.2	94.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 09:09	KH
83-32-9	Acenaphthene	ND		ug/kg dry	47.2	94.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 09:09	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	47.2	94.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 09:09	KH
120-12-7	Anthracene	ND		ug/kg dry	47.2	94.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 09:09	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	47.2	94.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 09:09	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	47.2	94.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 09:09	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	47.2	94.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 09:09	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	47.2	94.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 09:09	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	47.2	94.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 09:09	KH
218-01-9	Chrysene	ND		ug/kg dry	47.2	94.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 09:09	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	47.2	94.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 09:09	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	47.2	94.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 09:09	KH
206-44-0	Fluoranthene	ND		ug/kg dry	47.2	94.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 09:09	KH
86-73-7	Fluorene	ND		ug/kg dry	47.2	94.1	2	EPA 8270D Certifications: NELAC-NY 10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 09:09	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	47.2	94.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 09:09	KH



Sample Information

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Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	47.2	94.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 09:09	KH
91-20-3	Naphthalene	ND		ug/kg dry	47.2	94.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 09:09	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	47.2	94.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 09:09	KH
85-01-8	Phenanthrene	ND		ug/kg dry	47.2	94.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 09:09	KH
108-95-2	Phenol	ND		ug/kg dry	47.2	94.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 09:09	KH
129-00-0	Pyrene	ND		ug/kg dry	47.2	94.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 09:09	KH
Surrogate Recoveries		Result			Acceptance Range						
367-12-4	Surrogate: SURR: 2-Fluorophenol	85.4 %			20-108						
4165-62-2	Surrogate: SURR: Phenol-d5	86.0 %			23-114						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	71.9 %			22-108						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	82.4 %			21-113						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	78.3 %			19-110						
1718-51-0	Surrogate: SURR: Terphenyl-d14	86.7 %			24-116						

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:57	TJD
72-55-9	4,4'-DDE	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:57	TJD
50-29-3	4,4'-DDT	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:57	TJD
309-00-2	Aldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:57	TJD
319-84-6	alpha-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:57	TJD
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/26/2018 07:19	11/27/2018 04:57	TJD
319-85-7	beta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:57	TJD
319-86-8	delta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:57	TJD
60-57-1	Dieldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:57	TJD
959-98-8	Endosulfan I	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:57	TJD



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Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
33213-65-9	Endosulfan II	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/26/2018 07:19	11/27/2018 04:57	TJD
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:57	TJD
72-20-8	Endrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:57	TJD
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:57	TJD
76-44-8	Heptachlor	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 04:57	TJD
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	83.6 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	88.8 %	30-150							

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 09:29	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 09:29	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 09:29	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 09:29	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 09:29	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 09:29	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 09:29	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications:	11/26/2018 07:19	11/27/2018 09:29	TJD
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	81.7 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	56.2 %	30-140							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	7520		mg/kg dry	5.61	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:21	KML
7440-36-0	Antimony	ND		mg/kg dry	2.80	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:21	KML
7440-38-2	Arsenic	ND		mg/kg dry	1.68	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:21	KML
7440-39-3	Barium	54.7		mg/kg dry	2.80	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:21	KML
7440-41-7	Beryllium	0.081		mg/kg dry	0.056	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:21	KML
7440-43-9	Cadmium	0.363		mg/kg dry	0.336	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:21	KML
7440-70-2	Calcium	12200		mg/kg dry	5.61	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:21	KML
7440-47-3	Chromium	12.8		mg/kg dry	0.561	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:21	KML
7440-48-4	Cobalt	7.08		mg/kg dry	0.448	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:21	KML
7440-50-8	Copper	23.5		mg/kg dry	2.24	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:21	KML
7439-89-6	Iron	12200		mg/kg dry	28.0	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:21	KML
7439-92-1	Lead	19.9		mg/kg dry	0.561	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:21	KML
7439-95-4	Magnesium	2310		mg/kg dry	5.61	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:21	KML
7439-96-5	Manganese	284		mg/kg dry	0.561	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:21	KML
7440-02-0	Nickel	35.7		mg/kg dry	1.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:21	KML
7440-09-7	Potassium	1260	B	mg/kg dry	5.61	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:21	KML
7782-49-2	Selenium	ND		mg/kg dry	2.80	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:21	KML
7440-22-4	Silver	ND		mg/kg dry	0.561	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:21	KML
7440-23-5	Sodium	701		mg/kg dry	56.1	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:21	KML
7440-28-0	Thallium	ND		mg/kg dry	2.80	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:21	KML
7440-62-2	Vanadium	17.0		mg/kg dry	1.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:21	KML



Sample Information

Client Sample ID: SB-73C

York Sample ID: 18K0636-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 14, 2018 12:45 pm

11/15/2018

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	Zinc	186		mg/kg dry	2.80	1	EPA 6010D	11/16/2018 10:50	11/26/2018 15:21	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.0538		mg/kg dry	0.0336	1	EPA 7473	11/16/2018 15:23	11/16/2018 19:01	SY
							Certifications:	CTDOH,NJDEP,NELAC-NY10854,PADEP		

Total Solids

Log-in Notes:

Sample Notes:

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	89.2		%	0.100	1	SM 2540G	11/26/2018 10:25	11/26/2018 13:28	TAJ
							Certifications:	CTDOH		

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.561	1	EPA 7196A	11/26/2018 08:41	11/26/2018 18:25	MAC
							Certifications:	NJDEP,CTDOH,NELAC-NY10854,PADEP		

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	12.8		mg/kg	0.500	1	Calculation	11/30/2018 14:23	11/30/2018 14:45	PAM
							Certifications:			

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.561	1	EPA 9014/9010C	11/27/2018 08:24	11/27/2018 14:08	JTV
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB-73C

York Sample ID: 18K0636-10

<u>York Project (SDG) No.</u> 18K0636	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 14, 2018 12:45 pm	<u>Date Received</u> 11/15/2018
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Analyzed by: Con-Test Analytical Laboratory

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	NMeFOSAA	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	NEtFOSAA	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	Surrogate Recoveries	Result		Acceptance Range						
	Surrogate: 13C-PFHxA	%		70-130						
	Surrogate: 13C-PFDA	%		70-130						
	Surrogate: d5-NEtFOSAA	%		70-130						

Sample Information

Client Sample ID: SB-74A

York Sample ID: 18K0636-11

<u>York Project (SDG) No.</u> 18K0636	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 15, 2018 8:21 am	<u>Date Received</u> 11/15/2018
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Sample Information

Client Sample ID: SB-74A

York Sample ID: 18K0636-11

<u>York Project (SDG) No.</u> 18K0636	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 15, 2018 8:21 am	<u>Date Received</u> 11/15/2018
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Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND	IS-LO	ug/kg dry	4.1	8.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:19	LLJ
75-34-3	1,1-Dichloroethane	ND	IS-LO	ug/kg dry	4.1	8.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:19	LLJ
75-35-4	1,1-Dichloroethylene	ND	IS-LO	ug/kg dry	4.1	8.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:19	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND	IS-LO	ug/kg dry	4.1	8.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:19	LLJ
95-50-1	1,2-Dichlorobenzene	ND	IS-LO	ug/kg dry	4.1	8.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:19	LLJ
107-06-2	1,2-Dichloroethane	ND	IS-LO	ug/kg dry	4.1	8.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:19	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND	IS-LO	ug/kg dry	4.1	8.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:19	LLJ
541-73-1	1,3-Dichlorobenzene	ND	IS-LO	ug/kg dry	4.1	8.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:19	LLJ
106-46-7	1,4-Dichlorobenzene	ND	IS-LO	ug/kg dry	4.1	8.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:19	LLJ
123-91-1	1,4-Dioxane	ND	IS-LO	ug/kg dry	82	160	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:19	LLJ
78-93-3	2-Butanone	ND	IS-LO	ug/kg dry	4.1	8.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:19	LLJ
67-64-1	Acetone	ND	IS-LO	ug/kg dry	8.2	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:19	LLJ
71-43-2	Benzene	ND	IS-LO	ug/kg dry	4.1	8.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:19	LLJ
56-23-5	Carbon tetrachloride	ND	IS-LO	ug/kg dry	4.1	8.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:19	LLJ
108-90-7	Chlorobenzene	ND	IS-LO	ug/kg dry	4.1	8.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:19	LLJ
67-66-3	Chloroform	ND	IS-LO	ug/kg dry	4.1	8.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:19	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND	IS-LO	ug/kg dry	4.1	8.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:19	LLJ
100-41-4	Ethyl Benzene	ND	IS-LO	ug/kg dry	4.1	8.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:19	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	IS-LO	ug/kg dry	4.1	8.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:19	LLJ
75-09-2	Methylene chloride	ND	IS-LO	ug/kg dry	8.2	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:19	LLJ
91-20-3	Naphthalene	ND	IS-LO	ug/kg dry	4.1	16	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:19	LLJ
104-51-8	n-Butylbenzene	ND	IS-LO	ug/kg dry	4.1	8.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:19	LLJ
103-65-1	n-Propylbenzene	ND	IS-LO	ug/kg dry	4.1	8.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:19	LLJ



Sample Information

Client Sample ID: SB-74A

York Sample ID: 18K0636-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 15, 2018 8:21 am

11/15/2018

Volatile Organics, NYSDEC Part 375 List

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
95-47-6	o-Xylene	ND	IS-LO	ug/kg dry	4.1	8.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/26/2018 12:26	11/26/2018 18:19	LLJ
179601-23-1	p- & m- Xylenes	ND	IS-LO	ug/kg dry	8.2	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/26/2018 12:26	11/26/2018 18:19	LLJ
135-98-8	sec-Butylbenzene	ND	IS-LO	ug/kg dry	4.1	8.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:19	LLJ
98-06-6	tert-Butylbenzene	ND	IS-LO	ug/kg dry	4.1	8.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:19	LLJ
127-18-4	Tetrachloroethylene	ND	IS-LO	ug/kg dry	4.1	8.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:19	LLJ
108-88-3	Toluene	ND	IS-LO	ug/kg dry	4.1	8.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:19	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND	IS-LO	ug/kg dry	4.1	8.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:19	LLJ
79-01-6	Trichloroethylene	ND	IS-LO	ug/kg dry	4.1	8.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:19	LLJ
75-01-4	Vinyl Chloride	ND	IS-LO	ug/kg dry	4.1	8.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:19	LLJ
1330-20-7	Xylenes, Total	ND	IS-LO	ug/kg dry	12	25	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/26/2018 12:26	11/26/2018 18:19	LLJ
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	103 %			77-125						
2037-26-5	Surrogate: SURR: Toluene-d8	107 %			85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	115 %			76-130						

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	46.0	91.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 16:40	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	46.0	91.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 16:40	SR
83-32-9	Acenaphthene	ND		ug/kg dry	46.0	91.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 16:40	SR
208-96-8	Acenaphthylene	90.9	J	ug/kg dry	46.0	91.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 16:40	SR
120-12-7	Anthracene	146		ug/kg dry	46.0	91.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 16:40	SR
56-55-3	Benzo(a)anthracene	581		ug/kg dry	46.0	91.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 16:40	SR
50-32-8	Benzo(a)pyrene	578		ug/kg dry	46.0	91.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 16:40	SR



Sample Information

Client Sample ID: SB-74A

York Sample ID: 18K0636-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 15, 2018 8:21 am

11/15/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
205-99-2	Benzo(b)fluoranthene	569		ug/kg dry	46.0	91.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 16:40	SR
191-24-2	Benzo(g,h,i)perylene	435		ug/kg dry	46.0	91.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 16:40	SR
207-08-9	Benzo(k)fluoranthene	492		ug/kg dry	46.0	91.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 16:40	SR
218-01-9	Chrysene	629		ug/kg dry	46.0	91.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 16:40	SR
53-70-3	Dibenzo(a,h)anthracene	121		ug/kg dry	46.0	91.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 16:40	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	46.0	91.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 16:40	SR
206-44-0	Fluoranthene	1250		ug/kg dry	46.0	91.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 16:40	SR
86-73-7	Fluorene	51.3	J	ug/kg dry	46.0	91.7	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 16:40	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	46.0	91.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 16:40	SR
193-39-5	Indeno(1,2,3-cd)pyrene	383		ug/kg dry	46.0	91.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 16:40	SR
91-20-3	Naphthalene	ND		ug/kg dry	46.0	91.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 16:40	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	46.0	91.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 16:40	SR
85-01-8	Phenanthrene	743		ug/kg dry	46.0	91.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 16:40	SR
108-95-2	Phenol	ND		ug/kg dry	46.0	91.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 16:40	SR
129-00-0	Pyrene	1040		ug/kg dry	46.0	91.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 16:40	SR
	Surrogate Recoveries	Result			Acceptance Range						
367-12-4	Surrogate: SURR: 2-Fluorophenol	53.5 %			20-108						
4165-62-2	Surrogate: SURR: Phenol-d5	59.1 %			23-114						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	50.6 %			22-108						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	65.9 %			21-113						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	21.2 %			19-110						
1718-51-0	Surrogate: SURR: Terphenyl-d14	89.2 %			24-116						

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

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: SB-74A

York Sample ID: 18K0636-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 15, 2018 8:21 am

11/15/2018

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:12	TJD
72-55-9	4,4'-DDE	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:12	TJD
50-29-3	4,4'-DDT	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:12	TJD
309-00-2	Aldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:12	TJD
319-84-6	alpha-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:12	TJD
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/26/2018 07:19	11/27/2018 05:12	TJD
319-85-7	beta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:12	TJD
319-86-8	delta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:12	TJD
60-57-1	Dieldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:12	TJD
959-98-8	Endosulfan I	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:12	TJD
33213-65-9	Endosulfan II	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/26/2018 07:19	11/27/2018 05:12	TJD
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:12	TJD
72-20-8	Endrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:12	TJD
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:12	TJD
76-44-8	Heptachlor	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:12	TJD
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	63.0 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	69.7 %	30-150							

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0183	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 09:43	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0183	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 09:43	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0183	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 09:43	TJD



Sample Information

Client Sample ID: SB-74A

York Sample ID: 18K0636-11

York Project (SDG) No.

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Collection Date/Time

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Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0183	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 09:43	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0183	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 09:43	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0183	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 09:43	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0183	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 09:43	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0183	1	EPA 8082A Certifications:	11/26/2018 07:19	11/27/2018 09:43	TJD
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	66.8 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	48.3 %	30-140							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	6550		mg/kg dry	5.48	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:23	KML
7440-36-0	Antimony	10.4		mg/kg dry	2.74	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:23	KML
7440-38-2	Arsenic	9.07		mg/kg dry	1.64	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:23	KML
7440-39-3	Barium	587		mg/kg dry	2.74	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:23	KML
7440-41-7	Beryllium	1.06		mg/kg dry	0.055	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:23	KML
7440-43-9	Cadmium	1.16		mg/kg dry	0.329	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:23	KML
7440-70-2	Calcium	34500		mg/kg dry	5.48	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:23	KML
7440-47-3	Chromium	22.5		mg/kg dry	0.548	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:23	KML
7440-48-4	Cobalt	9.09		mg/kg dry	0.438	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:23	KML
7440-50-8	Copper	170		mg/kg dry	2.19	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:23	KML
7439-89-6	Iron	14000		mg/kg dry	27.4	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:23	KML
7439-92-1	Lead	1770		mg/kg dry	0.548	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:23	KML



Sample Information

Client Sample ID: SB-74A

York Sample ID: 18K0636-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

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Soil

November 15, 2018 8:21 am

11/15/2018

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	Magnesium	2810		mg/kg dry	5.48	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:23	KML
7439-96-5	Manganese	263		mg/kg dry	0.548	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:23	KML
7440-02-0	Nickel	22.2		mg/kg dry	1.10	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:23	KML
7440-09-7	Potassium	1260	B	mg/kg dry	5.48	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:23	KML
7782-49-2	Selenium	ND		mg/kg dry	2.74	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:23	KML
7440-22-4	Silver	ND		mg/kg dry	0.548	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:23	KML
7440-23-5	Sodium	559		mg/kg dry	54.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:23	KML
7440-28-0	Thallium	ND		mg/kg dry	2.74	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:23	KML
7440-62-2	Vanadium	27.4		mg/kg dry	1.10	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:23	KML
7440-66-6	Zinc	1170		mg/kg dry	2.74	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:23	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.375		mg/kg dry	0.0329	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/16/2018 15:23	11/16/2018 19:09	SY

Total Solids

Log-in Notes:

Sample Notes:

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	91.3		%	0.100	1	SM 2540G Certifications: CTDOH	11/26/2018 10:25	11/26/2018 13:28	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.548	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/26/2018 08:41	11/26/2018 18:25	MAC



Sample Information

Client Sample ID: SB-74A

York Sample ID: 18K0636-11

York Project (SDG) No.

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Matrix

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Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 15, 2018 8:21 am

11/15/2018

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	22.5		mg/kg	0.500	1	Calculation	11/30/2018 14:23	11/30/2018 14:45	PAM
Certifications:										

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	1.18		mg/kg dry	0.548	1	EPA 9014/9010C	11/27/2018 08:24	11/27/2018 14:08	JTV
Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP										

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	NMeFOSAA	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	NEtFOSAA	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	



Sample Information

Client Sample ID: SB-74A

York Sample ID: 18K0636-11

<u>York Project (SDG) No.</u> 18K0636	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 15, 2018 8:21 am	<u>Date Received</u> 11/15/2018
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Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	Surrogate Recoveries	Result					Acceptance Range			
	Surrogate: 13C-PFHxA	%					70-130			
	Surrogate: 13C-PFDA	%					70-130			
	Surrogate: d5-NEtFOSAA	%					70-130			

Sample Information

Client Sample ID: SB-74B

York Sample ID: 18K0636-12

<u>York Project (SDG) No.</u> 18K0636	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 15, 2018 8:30 am	<u>Date Received</u> 11/15/2018
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Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND	IS-LO	ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:17	LLJ
75-34-3	1,1-Dichloroethane	ND	IS-LO	ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:17	LLJ
75-35-4	1,1-Dichloroethylene	ND	IS-LO	ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:17	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND	IS-LO	ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:17	LLJ
95-50-1	1,2-Dichlorobenzene	ND	IS-LO	ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:17	LLJ
107-06-2	1,2-Dichloroethane	ND	IS-LO	ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:17	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND	IS-LO	ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:17	LLJ
541-73-1	1,3-Dichlorobenzene	ND	IS-LO	ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:17	LLJ
106-46-7	1,4-Dichlorobenzene	ND	IS-LO	ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:17	LLJ
123-91-1	1,4-Dioxane	ND	IS-LO	ug/kg dry	64	130	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:17	LLJ
78-93-3	2-Butanone	ND	IS-LO	ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:17	LLJ



Sample Information

Client Sample ID: SB-74B

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Volatile Organics, NYSDEC Part 375 List

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
67-64-1	Acetone	38	IS-LO	ug/kg dry	6.4	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:17	LLJ
71-43-2	Benzene	ND	IS-LO	ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:17	LLJ
56-23-5	Carbon tetrachloride	ND	IS-LO	ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:17	LLJ
108-90-7	Chlorobenzene	ND	IS-LO	ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:17	LLJ
67-66-3	Chloroform	11	IS-LO	ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:17	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND	IS-LO	ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:17	LLJ
100-41-4	Ethyl Benzene	ND	IS-LO	ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:17	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	IS-LO	ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:17	LLJ
75-09-2	Methylene chloride	19	IS-LO	ug/kg dry	6.4	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:17	LLJ
91-20-3	Naphthalene	ND	IS-LO	ug/kg dry	3.2	13	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:17	LLJ
104-51-8	n-Butylbenzene	ND	IS-LO	ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:17	LLJ
103-65-1	n-Propylbenzene	ND	IS-LO	ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:17	LLJ
95-47-6	o-Xylene	ND	IS-LO	ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/20/2018 15:20	11/20/2018 21:17	LLJ
179601-23-1	p- & m- Xylenes	ND	IS-LO	ug/kg dry	6.4	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/20/2018 15:20	11/20/2018 21:17	LLJ
135-98-8	sec-Butylbenzene	ND	IS-LO	ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:17	LLJ
98-06-6	tert-Butylbenzene	ND	IS-LO	ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:17	LLJ
127-18-4	Tetrachloroethylene	ND	IS-LO	ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:17	LLJ
108-88-3	Toluene	ND	IS-LO	ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:17	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND	IS-LO	ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:17	LLJ
79-01-6	Trichloroethylene	ND	IS-LO	ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:17	LLJ
75-01-4	Vinyl Chloride	ND	IS-LO	ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:17	LLJ
1330-20-7	Xylenes, Total	ND	IS-LO	ug/kg dry	9.6	19	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/20/2018 15:20	11/20/2018 21:17	LLJ
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	102 %	77-125								



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Volatile Organics, NYSDEC Part 375 List

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
2037-26-5	Surrogate: SURR: Toluene-d8	184 %			85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	100 %			76-130						

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	49.0	97.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:12	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	49.0	97.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:12	SR
83-32-9	Acenaphthene	ND		ug/kg dry	49.0	97.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:12	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	49.0	97.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:12	SR
120-12-7	Anthracene	135		ug/kg dry	49.0	97.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:12	SR
56-55-3	Benzo(a)anthracene	316		ug/kg dry	49.0	97.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:12	SR
50-32-8	Benzo(a)pyrene	225		ug/kg dry	49.0	97.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:12	SR
205-99-2	Benzo(b)fluoranthene	272		ug/kg dry	49.0	97.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:12	SR
191-24-2	Benzo(g,h,i)perylene	166		ug/kg dry	49.0	97.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:12	SR
207-08-9	Benzo(k)fluoranthene	195		ug/kg dry	49.0	97.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:12	SR
218-01-9	Chrysene	416		ug/kg dry	49.0	97.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:12	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	49.0	97.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:12	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	49.0	97.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:12	SR
206-44-0	Fluoranthene	682		ug/kg dry	49.0	97.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:12	SR
86-73-7	Fluorene	54.7	J	ug/kg dry	49.0	97.7	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:12	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	49.0	97.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:12	SR
193-39-5	Indeno(1,2,3-cd)pyrene	143		ug/kg dry	49.0	97.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:12	SR
91-20-3	Naphthalene	57.8	J	ug/kg dry	49.0	97.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:12	SR



Sample Information

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Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-86-5	Pentachlorophenol	ND		ug/kg dry	49.0	97.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:12	SR
85-01-8	Phenanthrene	628		ug/kg dry	49.0	97.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:12	SR
108-95-2	Phenol	ND		ug/kg dry	49.0	97.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:12	SR
129-00-0	Pyrene	643		ug/kg dry	49.0	97.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:12	SR
Surrogate Recoveries		Result			Acceptance Range						
367-12-4	Surrogate: SURR: 2-Fluorophenol	57.3 %			20-108						
4165-62-2	Surrogate: SURR: Phenol-d5	52.1 %			23-114						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	51.0 %			22-108						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	61.8 %			21-113						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	90.6 %			19-110						
1718-51-0	Surrogate: SURR: Terphenyl-d14	86.7 %			24-116						

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:27	TJD
72-55-9	4,4'-DDE	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:27	TJD
50-29-3	4,4'-DDT	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:27	TJD
309-00-2	Aldrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:27	TJD
319-84-6	alpha-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:27	TJD
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/26/2018 07:19	11/27/2018 05:27	TJD
319-85-7	beta-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:27	TJD
319-86-8	delta-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:27	TJD
60-57-1	Dieldrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:27	TJD
959-98-8	Endosulfan I	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:27	TJD
33213-65-9	Endosulfan II	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/26/2018 07:19	11/27/2018 05:27	TJD
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:27	TJD



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Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-20-8	Endrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:27	TJD
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:27	TJD
76-44-8	Heptachlor	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:27	TJD
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	66.7 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	56.1 %	30-150							

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 09:57	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 09:57	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 09:57	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 09:57	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 09:57	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 09:57	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 09:57	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications:	11/26/2018 07:19	11/27/2018 09:57	TJD
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	61.4 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	44.8 %	30-140							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	2170		mg/kg dry	5.86	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:25	KML
7440-36-0	Antimony	34.0		mg/kg dry	2.93	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:25	KML



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37321-STX 27-10 49th Ave

Soil

November 15, 2018 8:30 am

11/15/2018

Metals, Target Analyte

Log-in Notes:

Sample Notes:

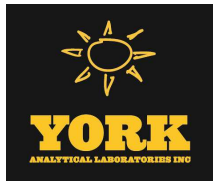
Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	3.38		mg/kg dry	1.76	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:25	KML
7440-39-3	Barium	159		mg/kg dry	2.93	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:25	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.059	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:25	KML
7440-43-9	Cadmium	22.6		mg/kg dry	0.352	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:25	KML
7440-70-2	Calcium	1050		mg/kg dry	5.86	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:25	KML
7440-47-3	Chromium	177		mg/kg dry	0.586	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:25	KML
7440-48-4	Cobalt	24.8		mg/kg dry	0.469	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:25	KML
7440-50-8	Copper	1380		mg/kg dry	2.34	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:25	KML
7439-89-6	Iron	109000		mg/kg dry	29.3	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:25	KML
7439-92-1	Lead	2680		mg/kg dry	0.586	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:25	KML
7439-95-4	Magnesium	308		mg/kg dry	5.86	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:25	KML
7439-96-5	Manganese	400		mg/kg dry	0.586	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:25	KML
7440-02-0	Nickel	76.5		mg/kg dry	1.17	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:25	KML
7440-09-7	Potassium	562	B	mg/kg dry	5.86	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:25	KML
7782-49-2	Selenium	ND		mg/kg dry	2.93	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:25	KML
7440-22-4	Silver	2.76		mg/kg dry	0.586	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:25	KML
7440-23-5	Sodium	1320		mg/kg dry	58.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:25	KML
7440-28-0	Thallium	ND		mg/kg dry	2.93	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:25	KML
7440-62-2	Vanadium	20.8		mg/kg dry	1.17	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:25	KML
7440-66-6	Zinc	6980		mg/kg dry	29.3	10	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/27/2018 11:58	KML

Mercury by 7473

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB-74B

York Sample ID: 18K0636-12

<u>York Project (SDG) No.</u> 18K0636	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 15, 2018 8:30 am	<u>Date Received</u> 11/15/2018
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Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.471		mg/kg dry	0.0352	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/16/2018 15:23	11/16/2018 19:18	SY

Total Solids

Log-in Notes:

Sample Notes:

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	85.3		%	0.100	1	SM 2540G Certifications: CTDOH	11/26/2018 10:25	11/26/2018 13:28	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.586	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/26/2018 08:41	11/26/2018 18:25	MAC

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	177		mg/kg	0.500	1	Calculation Certifications:	11/30/2018 14:23	11/30/2018 14:45	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	0.703		mg/kg dry	0.586	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/27/2018 08:24	11/27/2018 14:08	JTV

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	



Sample Information

Client Sample ID: SB-74B

York Sample ID: 18K0636-12

<u>York Project (SDG) No.</u> 18K0636	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 15, 2018 8:30 am	<u>Date Received</u> 11/15/2018
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Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	NMeFOSAA	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	NEtFOSAA	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	

Surrogate Recoveries

Result

Acceptance Range

Surrogate: 13C-PFHxA	%	70-130
Surrogate: 13C-PFDA	%	70-130
Surrogate: d5-NEtFOSAA	%	70-130

Sample Information

Client Sample ID: SB-75A

York Sample ID: 18K0636-13

<u>York Project (SDG) No.</u> 18K0636	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 15, 2018 8:45 am	<u>Date Received</u> 11/15/2018
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Volatile Organics, NYSDEC Part 375 List

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
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@		



Sample Information

Client Sample ID: SB-75A

York Sample ID: 18K0636-13

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 15, 2018 8:45 am

11/15/2018

Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:47	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:47	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:47	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:47	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:47	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:47	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:47	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:47	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:47	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	53	110	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:47	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:47	LLJ
67-64-1	Acetone	11		ug/kg dry	5.3	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:47	LLJ
71-43-2	Benzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:47	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:47	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:47	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:47	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:47	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:47	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:47	LLJ
75-09-2	Methylene chloride	9.1	J	ug/kg dry	5.3	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:47	LLJ
91-20-3	Naphthalene	ND		ug/kg dry	2.6	11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:47	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:47	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:47	LLJ



Sample Information

Client Sample ID: SB-75A

York Sample ID: 18K0636-13

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 15, 2018 8:45 am

11/15/2018

Volatile Organics, NYSDEC Part 375 List

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
95-47-6	o-Xylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/20/2018 15:20	11/20/2018 21:47	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.3	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/20/2018 15:20	11/20/2018 21:47	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:47	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:47	LLJ
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:47	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:47	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:47	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:47	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 21:47	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.9	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/20/2018 15:20	11/20/2018 21:47	LLJ
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	93.6 %			77-125						
2037-26-5	Surrogate: SURR: Toluene-d8	110 %			85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	106 %			76-130						

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	44.3	88.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:44	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	44.3	88.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:44	SR
83-32-9	Acenaphthene	ND		ug/kg dry	44.3	88.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:44	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	44.3	88.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:44	SR
120-12-7	Anthracene	ND		ug/kg dry	44.3	88.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:44	SR
56-55-3	Benzo(a)anthracene	155		ug/kg dry	44.3	88.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:44	SR
50-32-8	Benzo(a)pyrene	138		ug/kg dry	44.3	88.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:44	SR
205-99-2	Benzo(b)fluoranthene	139		ug/kg dry	44.3	88.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:44	SR



Sample Information

Client Sample ID: SB-75A

York Sample ID: 18K0636-13

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 15, 2018 8:45 am

11/15/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	Benzo(g,h,i)perylene	99.7		ug/kg dry	44.3	88.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:44	SR
207-08-9	Benzo(k)fluoranthene	119		ug/kg dry	44.3	88.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:44	SR
218-01-9	Chrysene	158		ug/kg dry	44.3	88.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:44	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	44.3	88.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:44	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	44.3	88.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:44	SR
206-44-0	Fluoranthene	332		ug/kg dry	44.3	88.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:44	SR
86-73-7	Fluorene	ND		ug/kg dry	44.3	88.4	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:44	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	44.3	88.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:44	SR
193-39-5	Indeno(1,2,3-cd)pyrene	91.2		ug/kg dry	44.3	88.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:44	SR
91-20-3	Naphthalene	ND		ug/kg dry	44.3	88.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:44	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	44.3	88.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:44	SR
85-01-8	Phenanthrene	183		ug/kg dry	44.3	88.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:44	SR
108-95-2	Phenol	ND		ug/kg dry	44.3	88.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:44	SR
129-00-0	Pyrene	298		ug/kg dry	44.3	88.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 17:44	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	Surrogate: SURR: 2-Fluorophenol	51.2 %	20-108
4165-62-2	Surrogate: SURR: Phenol-d5	49.3 %	23-114
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	46.2 %	22-108
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	54.7 %	21-113
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	73.3 %	19-110
1718-51-0	Surrogate: SURR: Terphenyl-d14	84.3 %	24-116

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:42	TJD



Sample Information

Client Sample ID: SB-75A

York Sample ID: 18K0636-13

<u>York Project (SDG) No.</u> 18K0636	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 15, 2018 8:45 am	<u>Date Received</u> 11/15/2018
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Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-55-9	4,4'-DDE	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:42	TJD
50-29-3	4,4'-DDT	7.85		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:42	TJD
309-00-2	Aldrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:42	TJD
319-84-6	alpha-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:42	TJD
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/26/2018 07:19	11/27/2018 05:42	TJD
319-85-7	beta-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:42	TJD
319-86-8	delta-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:42	TJD
60-57-1	Dieldrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:42	TJD
959-98-8	Endosulfan I	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:42	TJD
33213-65-9	Endosulfan II	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/26/2018 07:19	11/27/2018 05:42	TJD
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:42	TJD
72-20-8	Endrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:42	TJD
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:42	TJD
76-44-8	Heptachlor	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:42	TJD
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	74.7 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	78.8 %	30-150							

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 10:10	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 10:10	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 10:10	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 10:10	TJD



Sample Information

Client Sample ID: SB-75A

York Sample ID: 18K0636-13

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 15, 2018 8:45 am

11/15/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 10:10	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 10:10	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 10:10	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications:	11/26/2018 07:19	11/27/2018 10:10	TJD
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	69.8 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	48.8 %	30-140							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	5730		mg/kg dry	5.30	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:28	KML
7440-36-0	Antimony	ND		mg/kg dry	2.65	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:28	KML
7440-38-2	Arsenic	3.57		mg/kg dry	1.59	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:28	KML
7440-39-3	Barium	139		mg/kg dry	2.65	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:28	KML
7440-41-7	Beryllium	0.057		mg/kg dry	0.053	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:28	KML
7440-43-9	Cadmium	0.627		mg/kg dry	0.318	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:28	KML
7440-70-2	Calcium	15700		mg/kg dry	5.30	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:28	KML
7440-47-3	Chromium	11.9		mg/kg dry	0.530	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:28	KML
7440-48-4	Cobalt	5.42		mg/kg dry	0.424	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:28	KML
7440-50-8	Copper	47.3		mg/kg dry	2.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:28	KML
7439-89-6	Iron	11800		mg/kg dry	26.5	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:28	KML
7439-92-1	Lead	268		mg/kg dry	0.530	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:28	KML
7439-95-4	Magnesium	3180		mg/kg dry	5.30	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:28	KML



Sample Information

Client Sample ID: SB-75A

York Sample ID: 18K0636-13

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 15, 2018 8:45 am

11/15/2018

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	228		mg/kg dry	0.530	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:28	KML
7440-02-0	Nickel	14.0		mg/kg dry	1.06	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:28	KML
7440-09-7	Potassium	1230	B	mg/kg dry	5.30	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:28	KML
7782-49-2	Selenium	ND		mg/kg dry	2.65	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:28	KML
7440-22-4	Silver	ND		mg/kg dry	0.530	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:28	KML
7440-23-5	Sodium	458		mg/kg dry	53.0	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:28	KML
7440-28-0	Thallium	ND		mg/kg dry	2.65	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:28	KML
7440-62-2	Vanadium	20.5		mg/kg dry	1.06	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:28	KML
7440-66-6	Zinc	190		mg/kg dry	2.65	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:28	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.203		mg/kg dry	0.0318	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/16/2018 15:23	11/16/2018 19:27	SY

Total Solids

Log-in Notes:

Sample Notes:

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	94.3		%	0.100	1	SM 2540G Certifications: CTDOH	11/26/2018 10:25	11/26/2018 13:28	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.530	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/26/2018 08:41	11/26/2018 18:25	MAC

Chromium, Trivalent

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB-75A

York Sample ID: 18K0636-13

<u>York Project (SDG) No.</u> 18K0636	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 15, 2018 8:45 am	<u>Date Received</u> 11/15/2018
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Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	11.9		mg/kg	0.500	1	Calculation	11/30/2018 14:23	11/30/2018 14:45	PAM

Certifications:

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.530	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/27/2018 08:24	11/27/2018 14:08	JTV

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	NMeFOSAA	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	NEtFOSAA	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	



Sample Information

Client Sample ID: SB-75A

York Sample ID: 18K0636-13

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 15, 2018 8:45 am

11/15/2018

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries		Result	Acceptance Range							
	Surrogate: 13C-PFHxA	%		70-130						
	Surrogate: 13C-PFDA	%		70-130						
	Surrogate: d5-NEtFOSAA	%		70-130						

Sample Information

Client Sample ID: SB-75B

York Sample ID: 18K0636-14

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 15, 2018 8:57 am

11/15/2018

Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 22:17	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 22:17	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 22:17	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 22:17	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 22:17	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 22:17	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 22:17	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 22:17	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 22:17	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	54	110	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 22:17	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 22:17	LLJ
67-64-1	Acetone	12		ug/kg dry	5.4	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 22:17	LLJ



Sample Information

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Volatile Organics, NYSDEC Part 375 List

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
71-43-2	Benzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 22:17	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 22:17	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 22:17	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 22:17	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 22:17	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 22:17	LLJ
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,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 22:17	LLJ
75-09-2	Methylene chloride	27		ug/kg dry	5.4	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 22:17	LLJ
91-20-3	Naphthalene	3.0	J, B	ug/kg dry	2.7	11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 22:17	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 22:17	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 22:17	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/20/2018 15:20	11/20/2018 22:17	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.4	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/20/2018 15:20	11/20/2018 22:17	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 22:17	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 22:17	LLJ
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 22:17	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 22:17	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 22:17	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 22:17	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 22:17	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.1	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/20/2018 15:20	11/20/2018 22:17	LLJ

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	95.9 %	77-125
2037-26-5	Surrogate: SURR: Toluene-d8	117 %	85-120
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	118 %	76-130



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Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	49.9	99.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:16	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	49.9	99.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:16	SR
83-32-9	Acenaphthene	ND		ug/kg dry	49.9	99.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:16	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	49.9	99.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:16	SR
120-12-7	Anthracene	68.5	J	ug/kg dry	49.9	99.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:16	SR
56-55-3	Benzo(a)anthracene	222		ug/kg dry	49.9	99.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:16	SR
50-32-8	Benzo(a)pyrene	216		ug/kg dry	49.9	99.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:16	SR
205-99-2	Benzo(b)fluoranthene	180		ug/kg dry	49.9	99.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:16	SR
191-24-2	Benzo(g,h,i)perylene	138		ug/kg dry	49.9	99.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:16	SR
207-08-9	Benzo(k)fluoranthene	160		ug/kg dry	49.9	99.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:16	SR
218-01-9	Chrysene	214		ug/kg dry	49.9	99.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:16	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	49.9	99.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:16	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	49.9	99.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:16	SR
206-44-0	Fluoranthene	434		ug/kg dry	49.9	99.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:16	SR
86-73-7	Fluorene	ND		ug/kg dry	49.9	99.6	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:16	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	49.9	99.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:16	SR
193-39-5	Indeno(1,2,3-cd)pyrene	115		ug/kg dry	49.9	99.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:16	SR
91-20-3	Naphthalene	ND		ug/kg dry	49.9	99.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:16	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	49.9	99.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:16	SR
85-01-8	Phenanthrene	276		ug/kg dry	49.9	99.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:16	SR
108-95-2	Phenol	ND		ug/kg dry	49.9	99.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:16	SR
129-00-0	Pyrene	416		ug/kg dry	49.9	99.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:16	SR



Sample Information

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Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries		Result	Acceptance Range								
367-12-4	Surrogate: SURR: 2-Fluorophenol	63.8 %			20-108						
4165-62-2	Surrogate: SURR: Phenol-d5	58.2 %			23-114						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	51.3 %			22-108						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	59.1 %			21-113						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	102 %			19-110						
1718-51-0	Surrogate: SURR: Terphenyl-d14	76.5 %			24-116						

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst	
72-54-8	4,4'-DDD	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:57	TJD	
72-55-9	4,4'-DDE	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:57	TJD	
50-29-3	4,4'-DDT	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:57	TJD	
309-00-2	Aldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:57	TJD	
319-84-6	alpha-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:57	TJD	
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/26/2018 07:19	11/27/2018 05:57	TJD	
319-85-7	beta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:57	TJD	
319-86-8	delta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:57	TJD	
60-57-1	Dieldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:57	TJD	
959-98-8	Endosulfan I	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:57	TJD	
33213-65-9	Endosulfan II	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/26/2018 07:19	11/27/2018 05:57	TJD	
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:57	TJD	
72-20-8	Endrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:57	TJD	
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:57	TJD	
76-44-8	Heptachlor	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 05:57	TJD	
Surrogate Recoveries		Result	Acceptance Range								
2051-24-3	Surrogate: Decachlorobiphenyl	70.3 %			30-150						



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Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
877-09-8	Surrogate: Tetrachloro-m-xylene	81.4 %			30-150					

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0199	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 10:24	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0199	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 10:24	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0199	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 10:24	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0199	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 10:24	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0199	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 10:24	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0199	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 10:24	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0199	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 10:24	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0199	1	EPA 8082A Certifications:	11/26/2018 07:19	11/27/2018 10:24	TJD

Surrogate Recoveries

Result

Acceptance Range

877-09-8	Surrogate: Tetrachloro-m-xylene	76.2 %	30-140
2051-24-3	Surrogate: Decachlorobiphenyl	47.3 %	30-140

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	10700		mg/kg dry	5.97	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:30	KML
7440-36-0	Antimony	4.89		mg/kg dry	2.99	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:30	KML
7440-38-2	Arsenic	4.41		mg/kg dry	1.79	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:30	KML
7440-39-3	Barium	208		mg/kg dry	2.99	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:30	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.060	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:30	KML
7440-43-9	Cadmium	1.80		mg/kg dry	0.358	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:30	KML



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Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 15, 2018 8:57 am

11/15/2018

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	Calcium	21500		mg/kg dry	5.97	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:30	KML
7440-47-3	Chromium	45.0		mg/kg dry	0.597	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:30	KML
7440-48-4	Cobalt	6.12		mg/kg dry	0.478	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:30	KML
7440-50-8	Copper	37.2		mg/kg dry	2.39	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:30	KML
7439-89-6	Iron	20100		mg/kg dry	29.9	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:30	KML
7439-92-1	Lead	2300		mg/kg dry	0.597	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:30	KML
7439-95-4	Magnesium	3280		mg/kg dry	5.97	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:30	KML
7439-96-5	Manganese	110		mg/kg dry	0.597	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:30	KML
7440-02-0	Nickel	33.4		mg/kg dry	1.19	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:30	KML
7440-09-7	Potassium	2590	B	mg/kg dry	5.97	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:30	KML
7782-49-2	Selenium	ND		mg/kg dry	2.99	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:30	KML
7440-22-4	Silver	ND		mg/kg dry	0.597	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:30	KML
7440-23-5	Sodium	1110		mg/kg dry	59.7	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:30	KML
7440-28-0	Thallium	ND		mg/kg dry	2.99	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:30	KML
7440-62-2	Vanadium	28.1		mg/kg dry	1.19	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:30	KML
7440-66-6	Zinc	130		mg/kg dry	2.99	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:30	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.329		mg/kg dry	0.0358	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/16/2018 15:23	11/17/2018 01:54	SY

Total Solids

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB-75B

York Sample ID: 18K0636-14

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 15, 2018 8:57 am

11/15/2018

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	83.7		%	0.100	1	SM 2540G Certifications: CTDOH	11/26/2018 10:25	11/26/2018 13:28	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.597	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/26/2018 08:41	11/26/2018 18:25	MAC

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	45.0		mg/kg	0.500	1	Calculation Certifications:	11/30/2018 14:23	11/30/2018 14:45	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.597	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/27/2018 08:24	11/27/2018 14:08	JTV

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	



Sample Information

Client Sample ID: SB-75B

York Sample ID: 18K0636-14

<u>York Project (SDG) No.</u> 18K0636	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 15, 2018 8:57 am	<u>Date Received</u> 11/15/2018
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Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	NMeFOSAA	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	NEtFOSAA	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	Surrogate Recoveries	Result		Acceptance Range						
	Surrogate: 13C-PFHxA	%		70-130						
	Surrogate: 13C-PFDA	%		70-130						
	Surrogate: d5-NEtFOSAA	%		70-130						

Sample Information

Client Sample ID: SB-76A

York Sample ID: 18K0636-15

<u>York Project (SDG) No.</u> 18K0636	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 15, 2018 9:40 am	<u>Date Received</u> 11/15/2018
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Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:51	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:51	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:51	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:51	LLJ



Sample Information

Client Sample ID: SB-76A

York Sample ID: 18K0636-15

York Project (SDG) No.

Client Project ID

Matrix

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18K0636

37321-STX 27-10 49th Ave

Soil

November 15, 2018 9:40 am

11/15/2018

Volatile Organics, NYSDEC Part 375 List

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
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:51	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:51	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:51	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:51	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:51	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	59	120	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:51	LLJ
78-93-3	2-Butanone	8.0		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:51	LLJ
67-64-1	Acetone	23		ug/kg dry	5.9	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:51	LLJ
71-43-2	Benzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:51	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:51	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:51	LLJ
67-66-3	Chloroform	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:51	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:51	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:51	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:51	LLJ
75-09-2	Methylene chloride	ND		ug/kg dry	5.9	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:51	LLJ
91-20-3	Naphthalene	3.3	J, B	ug/kg dry	3.0	12	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:51	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:51	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:51	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/26/2018 12:26	11/26/2018 18:51	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.9	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/26/2018 12:26	11/26/2018 18:51	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:51	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:51	LLJ



Sample Information

Client Sample ID: SB-76A

York Sample ID: 18K0636-15

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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18K0636

37321-STX 27-10 49th Ave

Soil

November 15, 2018 9:40 am

11/15/2018

Volatile Organics, NYSDEC Part 375 List

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
127-18-4	Tetrachloroethylene	5.1	J	ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:51	LLJ
108-88-3	Toluene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:51	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:51	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:51	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/26/2018 12:26	11/26/2018 18:51	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.9	18	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/26/2018 12:26	11/26/2018 18:51	LLJ
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	97.0 %			77-125						
2037-26-5	Surrogate: SURR: Toluene-d8	108 %			85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	118 %			76-130						

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 10:46	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 10:46	SR
83-32-9	Acenaphthene	46.3	J	ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 10:46	SR
208-96-8	Acenaphthylene	62.5	J	ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 10:46	SR
120-12-7	Anthracene	168		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 10:46	SR
56-55-3	Benzo(a)anthracene	573		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 10:46	SR
50-32-8	Benzo(a)pyrene	546		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 10:46	SR
205-99-2	Benzo(b)fluoranthene	503		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 10:46	SR
191-24-2	Benzo(g,h,i)perylene	318		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 10:46	SR
207-08-9	Benzo(k)fluoranthene	445		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 10:46	SR
218-01-9	Chrysene	563		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 10:46	SR



Sample Information

Client Sample ID: SB-76A

York Sample ID: 18K0636-15

York Project (SDG) No.

Client Project ID

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18K0636

37321-STX 27-10 49th Ave

Soil

November 15, 2018 9:40 am

11/15/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53-70-3	Dibenzo(a,h)anthracene	130		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 10:46	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 10:46	SR
206-44-0	Fluoranthene	1230		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 10:46	SR
86-73-7	Fluorene	53.3	J	ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 10:46	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 10:46	SR
193-39-5	Indeno(1,2,3-cd)pyrene	284		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 10:46	SR
91-20-3	Naphthalene	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 10:46	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 10:46	SR
85-01-8	Phenanthrene	766		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 10:46	SR
108-95-2	Phenol	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 10:46	SR
129-00-0	Pyrene	1050		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 10:46	SR
	Surrogate Recoveries	Result			Acceptance Range						
367-12-4	Surrogate: SURR: 2-Fluorophenol	53.6 %			20-108						
4165-62-2	Surrogate: SURR: Phenol-d5	51.5 %			23-114						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	46.3 %			22-108						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	58.7 %			21-113						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	75.0 %			19-110						
1718-51-0	Surrogate: SURR: Terphenyl-d14	79.3 %			24-116						

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 06:12	TJD
72-55-9	4,4'-DDE	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 06:12	TJD
50-29-3	4,4'-DDT	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 06:12	TJD
309-00-2	Aldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 06:12	TJD
319-84-6	alpha-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 06:12	TJD



Sample Information

Client Sample ID: SB-76A

York Sample ID: 18K0636-15

York Project (SDG) No.

Client Project ID

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Collection Date/Time

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18K0636

37321-STX 27-10 49th Ave

Soil

November 15, 2018 9:40 am

11/15/2018

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/26/2018 07:19	11/27/2018 06:12	TJD
319-85-7	beta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 06:12	TJD
319-86-8	delta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 06:12	TJD
60-57-1	Dieldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 06:12	TJD
959-98-8	Endosulfan I	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 06:12	TJD
33213-65-9	Endosulfan II	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/26/2018 07:19	11/27/2018 06:12	TJD
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 06:12	TJD
72-20-8	Endrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 06:12	TJD
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 06:12	TJD
76-44-8	Heptachlor	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 06:12	TJD
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	60.2 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	49.2 %	30-150							

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0175	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 11:04	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0175	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 11:04	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0175	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 11:04	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0175	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 11:04	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0175	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 11:04	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0175	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 11:04	TJD
11096-82-5	Aroclor 1260	0.0186		mg/kg dry	0.0175	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 11:04	TJD
1336-36-3	* Total PCBs	0.0186		mg/kg dry	0.0175	1	EPA 8082A Certifications:	11/26/2018 07:19	11/27/2018 11:04	TJD
Surrogate Recoveries		Result	Acceptance Range							



Sample Information

Client Sample ID: SB-76A

York Sample ID: 18K0636-15

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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Soil

November 15, 2018 9:40 am

11/15/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
877-09-8	Surrogate: Tetrachloro-m-xylene	48.0 %			30-140					
2051-24-3	Surrogate: Decachlorobiphenyl	37.3 %			30-140					

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	6330		mg/kg dry	5.26	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:32	KML
7440-36-0	Antimony	ND		mg/kg dry	2.63	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:32	KML
7440-38-2	Arsenic	4.43		mg/kg dry	1.58	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:32	KML
7440-39-3	Barium	309		mg/kg dry	2.63	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:32	KML
7440-41-7	Beryllium	0.211		mg/kg dry	0.053	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:32	KML
7440-43-9	Cadmium	0.903		mg/kg dry	0.316	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:32	KML
7440-70-2	Calcium	21100		mg/kg dry	5.26	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:32	KML
7440-47-3	Chromium	15.4		mg/kg dry	0.526	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:32	KML
7440-48-4	Cobalt	5.41		mg/kg dry	0.421	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:32	KML
7440-50-8	Copper	69.7		mg/kg dry	2.11	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:32	KML
7439-89-6	Iron	10500		mg/kg dry	26.3	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:32	KML
7439-92-1	Lead	514		mg/kg dry	0.526	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:32	KML
7439-95-4	Magnesium	3790		mg/kg dry	5.26	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:32	KML
7439-96-5	Manganese	225		mg/kg dry	0.526	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:32	KML
7440-02-0	Nickel	12.6		mg/kg dry	1.05	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:32	KML
7440-09-7	Potassium	860	B	mg/kg dry	5.26	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:32	KML
7782-49-2	Selenium	ND		mg/kg dry	2.63	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:32	KML
7440-22-4	Silver	ND		mg/kg dry	0.526	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:32	KML



Sample Information

Client Sample ID: SB-76A

York Sample ID: 18K0636-15

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 15, 2018 9:40 am

11/15/2018

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	Sodium	452		mg/kg dry	52.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:32	KML
7440-28-0	Thallium	ND		mg/kg dry	2.63	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:32	KML
7440-62-2	Vanadium	19.3		mg/kg dry	1.05	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:32	KML
7440-66-6	Zinc	476		mg/kg dry	2.63	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:32	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.249		mg/kg dry	0.0316	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/16/2018 15:23	11/17/2018 00:56	SY

Total Solids

Log-in Notes:

Sample Notes:

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	95.0		%	0.100	1	SM 2540G Certifications: CTDOH	11/26/2018 10:25	11/26/2018 13:28	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.526	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/26/2018 08:41	11/26/2018 18:25	MAC

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	15.4		mg/kg	0.500	1	Calculation Certifications:	11/30/2018 14:23	11/30/2018 14:45	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	0.737		mg/kg dry	0.526	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/27/2018 08:24	11/27/2018 14:08	JTV



Sample Information

Client Sample ID: SB-76A

York Sample ID: 18K0636-15

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 15, 2018 9:40 am

11/15/2018

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	NMeFOSAA	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	NEtFOSAA	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	Surrogate Recoveries	Result		Acceptance Range						
	Surrogate: 13C-PFHxA	%		70-130						
	Surrogate: 13C-PFDA	%		70-130						
	Surrogate: d5-NEtFOSAA	%		70-130						



Sample Information

Client Sample ID: SB-76B

York Sample ID: 18K0636-16

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 15, 2018 9:50 am

11/15/2018

Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:16	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:16	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:16	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND	IS-LO	ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:16	LLJ
95-50-1	1,2-Dichlorobenzene	ND	IS-LO	ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:16	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:16	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND	IS-LO	ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:16	LLJ
541-73-1	1,3-Dichlorobenzene	ND	IS-LO	ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:16	LLJ
106-46-7	1,4-Dichlorobenzene	ND	IS-LO	ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:16	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	57	110	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:16	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:16	LLJ
67-64-1	Acetone	9.9	J	ug/kg dry	5.7	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:16	LLJ
71-43-2	Benzene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:16	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:16	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:16	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:16	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:16	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:16	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:16	LLJ
75-09-2	Methylene chloride	19		ug/kg dry	5.7	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:16	LLJ
91-20-3	Naphthalene	4.2	IS-LO, J, B	ug/kg dry	2.8	11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:16	LLJ
104-51-8	n-Butylbenzene	ND	IS-LO	ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:16	LLJ
103-65-1	n-Propylbenzene	ND	IS-LO	ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:16	LLJ



Sample Information

Client Sample ID: SB-76B

York Sample ID: 18K0636-16

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 15, 2018 9:50 am

11/15/2018

Volatile Organics, NYSDEC Part 375 List

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
95-47-6	o-Xylene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/20/2018 15:20	11/20/2018 23:16	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.7	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/20/2018 15:20	11/20/2018 23:16	LLJ
135-98-8	sec-Butylbenzene	ND	IS-LO	ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:16	LLJ
98-06-6	tert-Butylbenzene	ND	IS-LO	ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:16	LLJ
127-18-4	Tetrachloroethylene	22		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:16	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:16	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:16	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:16	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:16	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.5	17	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/20/2018 15:20	11/20/2018 23:16	LLJ
Surrogate Recoveries		Result		Acceptance Range							
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	106 %		77-125							
2037-26-5	Surrogate: SURR: Toluene-d8	137 %	S-08	85-120							
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	115 %		76-130							

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	49.4	98.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 11:19	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	49.4	98.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 11:19	SR
83-32-9	Acenaphthene	ND		ug/kg dry	49.4	98.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 11:19	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	49.4	98.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 11:19	SR
120-12-7	Anthracene	ND		ug/kg dry	49.4	98.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 11:19	SR
56-55-3	Benzo(a)anthracene	126		ug/kg dry	49.4	98.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 11:19	SR
50-32-8	Benzo(a)pyrene	198		ug/kg dry	49.4	98.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 11:19	SR
205-99-2	Benzo(b)fluoranthene	138		ug/kg dry	49.4	98.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 11:19	SR



Sample Information

Client Sample ID: SB-76B

York Sample ID: 18K0636-16

<u>York Project (SDG) No.</u> 18K0636	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 15, 2018 9:50 am	<u>Date Received</u> 11/15/2018
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Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	Benzo(g,h,i)perylene	173		ug/kg dry	49.4	98.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 11:19	SR
207-08-9	Benzo(k)fluoranthene	114		ug/kg dry	49.4	98.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 11:19	SR
218-01-9	Chrysene	150		ug/kg dry	49.4	98.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 11:19	SR
53-70-3	Dibenzo(a,h)anthracene	49.7	J	ug/kg dry	49.4	98.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 11:19	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	49.4	98.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 11:19	SR
206-44-0	Fluoranthene	188		ug/kg dry	49.4	98.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 11:19	SR
86-73-7	Fluorene	ND		ug/kg dry	49.4	98.6	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 11:19	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	49.4	98.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 11:19	SR
193-39-5	Indeno(1,2,3-cd)pyrene	122		ug/kg dry	49.4	98.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 11:19	SR
91-20-3	Naphthalene	ND		ug/kg dry	49.4	98.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 11:19	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	49.4	98.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 11:19	SR
85-01-8	Phenanthrene	119		ug/kg dry	49.4	98.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 11:19	SR
108-95-2	Phenol	ND		ug/kg dry	49.4	98.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 11:19	SR
129-00-0	Pyrene	210		ug/kg dry	49.4	98.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 11:19	SR

	Surrogate Recoveries	Result	Flag	Acceptance Range
367-12-4	Surrogate: SURRE: 2-Fluorophenol	93.0 %		20-108
4165-62-2	Surrogate: SURRE: Phenol-d5	86.7 %		23-114
4165-60-0	Surrogate: SURRE: Nitrobenzene-d5	85.1 %		22-108
321-60-8	Surrogate: SURRE: 2-Fluorobiphenyl	108 %		21-113
118-79-6	Surrogate: SURRE: 2,4,6-Tribromophenol	156 %	S-08	19-110
1718-51-0	Surrogate: SURRE: Terphenyl-d14	145 %	S-08	24-116

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 06:57	TJD



Sample Information

Client Sample ID: SB-76B

York Sample ID: 18K0636-16

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 15, 2018 9:50 am

11/15/2018

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-55-9	4,4'-DDE	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 06:57	TJD
50-29-3	4,4'-DDT	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 06:57	TJD
309-00-2	Aldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 06:57	TJD
319-84-6	alpha-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 06:57	TJD
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/26/2018 07:19	11/27/2018 06:57	TJD
319-85-7	beta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 06:57	TJD
319-86-8	delta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 06:57	TJD
60-57-1	Dieldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 06:57	TJD
959-98-8	Endosulfan I	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 06:57	TJD
33213-65-9	Endosulfan II	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/26/2018 07:19	11/27/2018 06:57	TJD
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 06:57	TJD
72-20-8	Endrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 06:57	TJD
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 06:57	TJD
76-44-8	Heptachlor	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 06:57	TJD
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	90.7 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	84.8 %	30-150							

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0196	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 11:18	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0196	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 11:18	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0196	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 11:18	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0196	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 11:18	TJD



Sample Information

Client Sample ID: SB-76B

York Sample ID: 18K0636-16

York Project (SDG) No.

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18K0636

37321-STX 27-10 49th Ave

Soil

November 15, 2018 9:50 am

11/15/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0196	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 11:18	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0196	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 11:18	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0196	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 11:18	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0196	1	EPA 8082A Certifications:	11/26/2018 07:19	11/27/2018 11:18	TJD
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	70.3 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	47.3 %	30-140							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	5640		mg/kg dry	5.89	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:34	KML
7440-36-0	Antimony	ND		mg/kg dry	2.95	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:34	KML
7440-38-2	Arsenic	5.98		mg/kg dry	1.77	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:34	KML
7440-39-3	Barium	77.1		mg/kg dry	2.95	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:34	KML
7440-41-7	Beryllium	0.132		mg/kg dry	0.059	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:34	KML
7440-43-9	Cadmium	0.464		mg/kg dry	0.354	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:34	KML
7440-70-2	Calcium	2630		mg/kg dry	5.89	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:34	KML
7440-47-3	Chromium	10.6		mg/kg dry	0.589	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:34	KML
7440-48-4	Cobalt	6.19		mg/kg dry	0.471	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:34	KML
7440-50-8	Copper	76.6		mg/kg dry	2.36	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:34	KML
7439-89-6	Iron	16200		mg/kg dry	29.5	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:34	KML
7439-92-1	Lead	90.6		mg/kg dry	0.589	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:34	KML
7439-95-4	Magnesium	1830		mg/kg dry	5.89	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:34	KML



Sample Information

Client Sample ID: SB-76B

York Sample ID: 18K0636-16

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 15, 2018 9:50 am

11/15/2018

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	246		mg/kg dry	0.589	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:34	KML
7440-02-0	Nickel	18.0		mg/kg dry	1.18	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:34	KML
7440-09-7	Potassium	817	B	mg/kg dry	5.89	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:34	KML
7782-49-2	Selenium	ND		mg/kg dry	2.95	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:34	KML
7440-22-4	Silver	ND		mg/kg dry	0.589	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:34	KML
7440-23-5	Sodium	313		mg/kg dry	58.9	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:34	KML
7440-28-0	Thallium	ND		mg/kg dry	2.95	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:34	KML
7440-62-2	Vanadium	16.4		mg/kg dry	1.18	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:34	KML
7440-66-6	Zinc	365		mg/kg dry	2.95	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:34	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.313		mg/kg dry	0.0354	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/16/2018 15:23	11/17/2018 01:04	SY

Total Solids

Log-in Notes:

Sample Notes:

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	84.9		%	0.100	1	SM 2540G Certifications: CTDOH	11/26/2018 10:25	11/26/2018 13:28	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.589	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/26/2018 08:41	11/26/2018 18:25	MAC

Chromium, Trivalent

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB-76B

York Sample ID: 18K0636-16

<u>York Project (SDG) No.</u> 18K0636	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 15, 2018 9:50 am	<u>Date Received</u> 11/15/2018
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Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	10.6		mg/kg	0.500	1	Calculation	11/30/2018 14:23	11/30/2018 14:45	PAM

Certifications:

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.589	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/27/2018 08:24	11/27/2018 14:08	JTV

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	NMeFOSAA	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	NEtFOSAA	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	



Sample Information

Client Sample ID: SB-76B

York Sample ID: 18K0636-16

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 15, 2018 9:50 am

11/15/2018

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries		Result	Acceptance Range							
	Surrogate: 13C-PFHxA	%		70-130						
	Surrogate: 13C-PFDA	%		70-130						
	Surrogate: d5-NEtFOSAA	%		70-130						

Sample Information

Client Sample ID: SB-77A

York Sample ID: 18K0636-17

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 15, 2018 11:31 am

11/15/2018

Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:46	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:46	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:46	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND	IS-LO	ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:46	LLJ
95-50-1	1,2-Dichlorobenzene	ND	IS-LO	ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:46	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:46	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND	IS-LO	ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:46	LLJ
541-73-1	1,3-Dichlorobenzene	ND	IS-LO	ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:46	LLJ
106-46-7	1,4-Dichlorobenzene	ND	IS-LO	ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:46	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	54	110	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:46	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:46	LLJ
67-64-1	Acetone	7.9	J	ug/kg dry	5.4	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:46	LLJ



Sample Information

Client Sample ID: SB-77A

York Sample ID: 18K0636-17

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 15, 2018 11:31 am

11/15/2018

Volatile Organics, NYSDEC Part 375 List

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
71-43-2	Benzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:46	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:46	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:46	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:46	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:46	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:46	LLJ
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,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:46	LLJ
75-09-2	Methylene chloride	6.5	J	ug/kg dry	5.4	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:46	LLJ
91-20-3	Naphthalene	4.9	IS-LO, J, B	ug/kg dry	2.7	11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:46	LLJ
104-51-8	n-Butylbenzene	ND	IS-LO	ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:46	LLJ
103-65-1	n-Propylbenzene	ND	IS-LO	ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:46	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/20/2018 15:20	11/20/2018 23:46	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.4	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/20/2018 15:20	11/20/2018 23:46	LLJ
135-98-8	sec-Butylbenzene	ND	IS-LO	ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:46	LLJ
98-06-6	tert-Butylbenzene	ND	IS-LO	ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:46	LLJ
127-18-4	Tetrachloroethylene	160		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:46	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:46	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:46	LLJ
79-01-6	Trichloroethylene	4.9	J	ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:46	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/20/2018 23:46	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.1	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/20/2018 15:20	11/20/2018 23:46	LLJ
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	98.7 %			77-125						
2037-26-5	Surrogate: SURRE: Toluene-d8	140 %	S-08		85-120						
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	127 %			76-130						



Sample Information

Client Sample ID: SB-77A

York Sample ID: 18K0636-17

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 15, 2018 11:31 am

11/15/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	45.3	90.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 11:51	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	45.3	90.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 11:51	SR
83-32-9	Acenaphthene	91.8		ug/kg dry	45.3	90.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 11:51	SR
208-96-8	Acenaphthylene	437		ug/kg dry	45.3	90.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 11:51	SR
120-12-7	Anthracene	405		ug/kg dry	45.3	90.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 11:51	SR
56-55-3	Benzo(a)anthracene	2550		ug/kg dry	45.3	90.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 11:51	SR
50-32-8	Benzo(a)pyrene	2870		ug/kg dry	45.3	90.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 11:51	SR
205-99-2	Benzo(b)fluoranthene	2650		ug/kg dry	45.3	90.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 11:51	SR
191-24-2	Benzo(g,h,i)perylene	1590		ug/kg dry	45.3	90.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 11:51	SR
207-08-9	Benzo(k)fluoranthene	2300		ug/kg dry	45.3	90.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 11:51	SR
218-01-9	Chrysene	2400		ug/kg dry	45.3	90.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 11:51	SR
53-70-3	Dibenzo(a,h)anthracene	597		ug/kg dry	45.3	90.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 11:51	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	45.3	90.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 11:51	SR
206-44-0	Fluoranthene	3620		ug/kg dry	113	226	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 21:26	SR
86-73-7	Fluorene	88.9	J	ug/kg dry	45.3	90.5	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 11:51	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	45.3	90.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 11:51	SR
193-39-5	Indeno(1,2,3-cd)pyrene	1570		ug/kg dry	45.3	90.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 11:51	SR
91-20-3	Naphthalene	ND		ug/kg dry	45.3	90.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 11:51	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	45.3	90.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 11:51	SR
85-01-8	Phenanthrene	1470		ug/kg dry	45.3	90.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 11:51	SR
108-95-2	Phenol	ND		ug/kg dry	45.3	90.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 11:51	SR
129-00-0	Pyrene	3620		ug/kg dry	113	226	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 21:26	SR



Sample Information

Client Sample ID: SB-77A

York Sample ID: 18K0636-17

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 15, 2018 11:31 am

11/15/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries		Result	Acceptance Range								
367-12-4	Surrogate: SURR: 2-Fluorophenol	59.9 %			20-108						
4165-62-2	Surrogate: SURR: Phenol-d5	54.0 %			23-114						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	54.3 %			22-108						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	65.5 %			21-113						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	101 %			19-110						
1718-51-0	Surrogate: SURR: Terphenyl-d14	91.1 %			24-116						

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst	
72-54-8	4,4'-DDD	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:12	TJD	
72-55-9	4,4'-DDE	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:12	TJD	
50-29-3	4,4'-DDT	12.1		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:12	TJD	
309-00-2	Aldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:12	TJD	
319-84-6	alpha-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:12	TJD	
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/26/2018 07:19	11/27/2018 07:12	TJD	
319-85-7	beta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:12	TJD	
319-86-8	delta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:12	TJD	
60-57-1	Dieldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:12	TJD	
959-98-8	Endosulfan I	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:12	TJD	
33213-65-9	Endosulfan II	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/26/2018 07:19	11/27/2018 07:12	TJD	
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:12	TJD	
72-20-8	Endrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:12	TJD	
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:12	TJD	
76-44-8	Heptachlor	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:12	TJD	
Surrogate Recoveries		Result	Acceptance Range								
2051-24-3	Surrogate: Decachlorobiphenyl	100 %			30-150						



Sample Information

Client Sample ID: SB-77A

York Sample ID: 18K0636-17

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 15, 2018 11:31 am

11/15/2018

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
877-09-8	Surrogate: Tetrachloro-m-xylene	82.0 %			30-150					

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 11:31	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 11:31	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 11:31	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 11:31	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 11:31	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 11:31	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 11:31	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications:	11/26/2018 07:19	11/27/2018 11:31	TJD

Surrogate Recoveries

Result

Acceptance Range

877-09-8	Surrogate: Tetrachloro-m-xylene	57.9 %	30-140
2051-24-3	Surrogate: Decachlorobiphenyl	44.3 %	30-140

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	15000		mg/kg dry	5.44	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:37	KML
7440-36-0	Antimony	5.89		mg/kg dry	2.72	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:37	KML
7440-38-2	Arsenic	8.18		mg/kg dry	1.63	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:37	KML
7440-39-3	Barium	497		mg/kg dry	2.72	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:37	KML
7440-41-7	Beryllium	10.3		mg/kg dry	0.054	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:37	KML
7440-43-9	Cadmium	0.857		mg/kg dry	0.326	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:37	KML



Sample Information

Client Sample ID: SB-77A

York Sample ID: 18K0636-17

York Project (SDG) No.

Client Project ID

Matrix

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Date Received

18K0636

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Soil

November 15, 2018 11:31 am

11/15/2018

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	Calcium	15800		mg/kg dry	5.44	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:37	KML
7440-47-3	Chromium	146		mg/kg dry	0.544	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:37	KML
7440-48-4	Cobalt	77.5		mg/kg dry	0.435	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:37	KML
7440-50-8	Copper	1870		mg/kg dry	2.18	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:37	KML
7439-89-6	Iron	74200		mg/kg dry	27.2	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:37	KML
7439-92-1	Lead	1480		mg/kg dry	0.544	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:37	KML
7439-95-4	Magnesium	4920		mg/kg dry	5.44	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:37	KML
7439-96-5	Manganese	663		mg/kg dry	0.544	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:37	KML
7440-02-0	Nickel	185		mg/kg dry	1.09	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:37	KML
7440-09-7	Potassium	1620	B	mg/kg dry	5.44	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:37	KML
7782-49-2	Selenium	ND		mg/kg dry	2.72	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:37	KML
7440-22-4	Silver	ND		mg/kg dry	0.544	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:37	KML
7440-23-5	Sodium	2120		mg/kg dry	54.4	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:37	KML
7440-28-0	Thallium	ND		mg/kg dry	2.72	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:37	KML
7440-62-2	Vanadium	43.4		mg/kg dry	1.09	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:37	KML
7440-66-6	Zinc	14600		mg/kg dry	27.2	10	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/27/2018 12:00	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.615		mg/kg dry	0.0326	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/16/2018 15:23	11/17/2018 01:12	SY

Total Solids

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB-77A

York Sample ID: 18K0636-17

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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18K0636

37321-STX 27-10 49th Ave

Soil

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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	91.9		%	0.100	1	SM 2540G	11/26/2018 10:25	11/26/2018 13:28	TAJ
							Certifications:	CTDOH		

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.544	1	EPA 7196A	11/26/2018 08:41	11/26/2018 18:25	MAC
							Certifications:	NJDEP,CTDOH,NELAC-NY10854,PADEP		

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	146		mg/kg	0.500	1	Calculation	11/30/2018 14:23	11/30/2018 14:45	PAM
							Certifications:			

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	0.914		mg/kg dry	0.544	1	EPA 9014/9010C	11/27/2018 08:24	11/27/2018 14:08	JTV
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	



Sample Information

Client Sample ID: SB-77A

York Sample ID: 18K0636-17

<u>York Project (SDG) No.</u> 18K0636	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 15, 2018 11:31 am	<u>Date Received</u> 11/15/2018
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Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	NMeFOSAA	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	NEtFOSAA	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	Surrogate Recoveries	Result		Acceptance Range						
	Surrogate: 13C-PFHxA	%		70-130						
	Surrogate: 13C-PFDA	%		70-130						
	Surrogate: d5-NEtFOSAA	%		70-130						

Sample Information

Client Sample ID: SB-77B

York Sample ID: 18K0636-18

<u>York Project (SDG) No.</u> 18K0636	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 15, 2018 11:45 am	<u>Date Received</u> 11/15/2018
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Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	3.0	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:15	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	3.0	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:15	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	3.0	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:15	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	3.0	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:15	LLJ



Sample Information

Client Sample ID: SB-77B

York Sample ID: 18K0636-18

York Project (SDG) No.

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Soil

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Volatile Organics, NYSDEC Part 375 List

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
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	3.0	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:15	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	3.0	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:15	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	3.0	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:15	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	3.0	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:15	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	3.0	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:15	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	61	120	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:15	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	3.0	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:15	LLJ
67-64-1	Acetone	ND		ug/kg dry	6.1	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:15	LLJ
71-43-2	Benzene	ND		ug/kg dry	3.0	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:15	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	3.0	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:15	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	3.0	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:15	LLJ
67-66-3	Chloroform	ND		ug/kg dry	3.0	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:15	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	3.0	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:15	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	3.0	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:15	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	3.0	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:15	LLJ
75-09-2	Methylene chloride	14		ug/kg dry	6.1	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:15	LLJ
91-20-3	Naphthalene	ND		ug/kg dry	3.0	12	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:15	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	3.0	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:15	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	3.0	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:15	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	3.0	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/20/2018 15:20	11/21/2018 00:15	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	6.1	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/20/2018 15:20	11/21/2018 00:15	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	3.0	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:15	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.0	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:15	LLJ



Sample Information

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Volatile Organics, NYSDEC Part 375 List

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
127-18-4	Tetrachloroethylene	20		ug/kg dry	3.0	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:15	LLJ
108-88-3	Toluene	ND		ug/kg dry	3.0	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:15	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	3.0	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:15	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	3.0	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:15	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	3.0	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:15	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	9.1	18	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/20/2018 15:20	11/21/2018 00:15	LLJ
	Surrogate Recoveries	Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	93.9 %			77-125						
2037-26-5	Surrogate: SURR: Toluene-d8	112 %			85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	111 %			76-130						

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:47	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:47	SR
83-32-9	Acenaphthene	ND		ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:47	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:47	SR
120-12-7	Anthracene	102		ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:47	SR
56-55-3	Benzo(a)anthracene	408		ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:47	SR
50-32-8	Benzo(a)pyrene	346		ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:47	SR
205-99-2	Benzo(b)fluoranthene	312		ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:47	SR
191-24-2	Benzo(g,h,i)perylene	225		ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:47	SR
207-08-9	Benzo(k)fluoranthene	279		ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:47	SR
218-01-9	Chrysene	429		ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:47	SR



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Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53-70-3	Dibenzo(a,h)anthracene	60.9	J	ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:47	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:47	SR
206-44-0	Fluoranthene	827		ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:47	SR
86-73-7	Fluorene	ND		ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:47	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:47	SR
193-39-5	Indeno(1,2,3-cd)pyrene	194		ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:47	SR
91-20-3	Naphthalene	ND		ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:47	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:47	SR
85-01-8	Phenanthrene	551		ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:47	SR
108-95-2	Phenol	ND		ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:47	SR
129-00-0	Pyrene	820		ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 18:47	SR
Surrogate Recoveries		Result			Acceptance Range						
367-12-4	Surrogate: SURR: 2-Fluorophenol	63.9 %			20-108						
4165-62-2	Surrogate: SURR: Phenol-d5	62.0 %			23-114						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	58.4 %			22-108						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	73.5 %			21-113						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	109 %			19-110						
1718-51-0	Surrogate: SURR: Terphenyl-d14	99.5 %			24-116						

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:27	TJD
72-55-9	4,4'-DDE	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:27	TJD
50-29-3	4,4'-DDT	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:27	TJD
309-00-2	Aldrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:27	TJD
319-84-6	alpha-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:27	TJD



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Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/26/2018 07:19	11/27/2018 07:27	TJD
319-85-7	beta-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:27	TJD
319-86-8	delta-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:27	TJD
60-57-1	Dieldrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:27	TJD
959-98-8	Endosulfan I	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:27	TJD
33213-65-9	Endosulfan II	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/26/2018 07:19	11/27/2018 07:27	TJD
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:27	TJD
72-20-8	Endrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:27	TJD
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:27	TJD
76-44-8	Heptachlor	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:27	TJD
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	52.9 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	57.3 %	30-150							

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 11:45	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 11:45	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 11:45	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 11:45	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 11:45	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 11:45	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 11:45	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications:	11/26/2018 07:19	11/27/2018 11:45	TJD
Surrogate Recoveries		Result	Acceptance Range							



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Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
877-09-8	Surrogate: Tetrachloro-m-xylene	49.0 %			30-140					
2051-24-3	Surrogate: Decachlorobiphenyl	32.8 %			30-140					

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	9940		mg/kg dry	5.71	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:39	KML
7440-36-0	Antimony	3.10		mg/kg dry	2.85	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:39	KML
7440-38-2	Arsenic	3.12		mg/kg dry	1.71	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:39	KML
7440-39-3	Barium	166		mg/kg dry	2.85	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:39	KML
7440-41-7	Beryllium	0.191		mg/kg dry	0.057	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:39	KML
7440-43-9	Cadmium	0.444		mg/kg dry	0.343	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:39	KML
7440-70-2	Calcium	42000		mg/kg dry	5.71	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:39	KML
7440-47-3	Chromium	17.3		mg/kg dry	0.571	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:39	KML
7440-48-4	Cobalt	8.13		mg/kg dry	0.457	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:39	KML
7440-50-8	Copper	82.2		mg/kg dry	2.28	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:39	KML
7439-89-6	Iron	15900		mg/kg dry	28.5	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:39	KML
7439-92-1	Lead	432		mg/kg dry	0.571	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:39	KML
7439-95-4	Magnesium	3760		mg/kg dry	5.71	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:39	KML
7439-96-5	Manganese	255		mg/kg dry	0.571	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:39	KML
7440-02-0	Nickel	20.8		mg/kg dry	1.14	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:39	KML
7440-09-7	Potassium	1610	B	mg/kg dry	5.71	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:39	KML
7782-49-2	Selenium	ND		mg/kg dry	2.85	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:39	KML
7440-22-4	Silver	ND		mg/kg dry	0.571	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:39	KML



Sample Information

Client Sample ID: SB-77B

York Sample ID: 18K0636-18

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 15, 2018 11:45 am

11/15/2018

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	Sodium	1240		mg/kg dry	57.1	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:39	KML
7440-28-0	Thallium	ND		mg/kg dry	2.85	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:39	KML
7440-62-2	Vanadium	21.2		mg/kg dry	1.14	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:39	KML
7440-66-6	Zinc	553		mg/kg dry	2.85	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:39	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.467		mg/kg dry	0.0343	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/16/2018 15:23	11/17/2018 01:24	SY

Total Solids

Log-in Notes:

Sample Notes:

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	87.6		%	0.100	1	SM 2540G Certifications: CTDOH	11/26/2018 10:25	11/26/2018 13:28	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.571	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/26/2018 08:41	11/26/2018 18:25	MAC

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	17.3		mg/kg	0.500	1	Calculation Certifications:	11/30/2018 14:23	11/30/2018 14:45	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.571	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/27/2018 09:19	11/27/2018 17:00	JTV



Sample Information

Client Sample ID: SB-77B

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Soil

November 15, 2018 11:45 am

11/15/2018

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	NMeFOSAA	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	NEtFOSAA	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	Surrogate Recoveries	Result		Acceptance Range						
	Surrogate: 13C-PFHxA	%		70-130						
	Surrogate: 13C-PFDA	%		70-130						
	Surrogate: d5-NEtFOSAA	%		70-130						



Sample Information

Client Sample ID: SB-77C

York Sample ID: 18K0636-19

York Project (SDG) No.

Client Project ID

Matrix

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Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 15, 2018 11:45 am

11/15/2018

Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:45	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:45	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:45	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:45	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:45	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:45	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:45	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:45	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:45	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	48	96	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:45	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:45	LLJ
67-64-1	Acetone	9.6		ug/kg dry	4.8	9.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:45	LLJ
71-43-2	Benzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:45	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:45	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:45	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:45	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:45	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:45	LLJ
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,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:45	LLJ
75-09-2	Methylene chloride	26		ug/kg dry	4.8	9.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:45	LLJ
91-20-3	Naphthalene	ND		ug/kg dry	2.4	9.6	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:45	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:45	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:45	LLJ



Sample Information

Client Sample ID: SB-77C

York Sample ID: 18K0636-19

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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18K0636

37321-STX 27-10 49th Ave

Soil

November 15, 2018 11:45 am

11/15/2018

Volatile Organics, NYSDEC Part 375 List

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
95-47-6	o-Xylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/20/2018 15:20	11/21/2018 00:45	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.8	9.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/20/2018 15:20	11/21/2018 00:45	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:45	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:45	LLJ
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:45	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:45	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:45	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:45	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 00:45	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.2	14	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/20/2018 15:20	11/21/2018 00:45	LLJ
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	90.0 %	77-125								
2037-26-5	Surrogate: SURR: Toluene-d8	104 %	85-120								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	103 %	76-130								

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	44.3	88.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 19:19	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	44.3	88.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 19:19	SR
83-32-9	Acenaphthene	ND		ug/kg dry	44.3	88.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 19:19	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	44.3	88.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 19:19	SR
120-12-7	Anthracene	ND		ug/kg dry	44.3	88.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 19:19	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	44.3	88.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 19:19	SR
50-32-8	Benzo(a)pyrene	52.9	J	ug/kg dry	44.3	88.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 19:19	SR
205-99-2	Benzo(b)fluoranthene	45.9	J	ug/kg dry	44.3	88.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 19:19	SR



Sample Information

Client Sample ID: SB-77C

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Soil

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Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	44.3	88.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 19:19	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	44.3	88.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 19:19	SR
218-01-9	Chrysene	ND		ug/kg dry	44.3	88.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 19:19	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	44.3	88.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 19:19	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	44.3	88.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 19:19	SR
206-44-0	Fluoranthene	57.2	J	ug/kg dry	44.3	88.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 19:19	SR
86-73-7	Fluorene	ND		ug/kg dry	44.3	88.3	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 19:19	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	44.3	88.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 19:19	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	44.3	88.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 19:19	SR
91-20-3	Naphthalene	ND		ug/kg dry	44.3	88.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 19:19	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	44.3	88.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 19:19	SR
85-01-8	Phenanthrene	ND		ug/kg dry	44.3	88.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 19:19	SR
108-95-2	Phenol	ND		ug/kg dry	44.3	88.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 19:19	SR
129-00-0	Pyrene	56.5	J	ug/kg dry	44.3	88.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 19:19	SR
	Surrogate Recoveries	Result						Acceptance Range			
367-12-4	Surrogate: SURR: 2-Fluorophenol	64.8 %						20-108			
4165-62-2	Surrogate: SURR: Phenol-d5	60.0 %						23-114			
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	56.1 %						22-108			
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	69.3 %						21-113			
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	107 %						19-110			
1718-51-0	Surrogate: SURR: Terphenyl-d14	99.2 %						24-116			

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:42	TJD
72-55-9	4,4'-DDE	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:42	TJD



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Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-29-3	4,4'-DDT	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:42	TJD
309-00-2	Aldrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:42	TJD
319-84-6	alpha-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:42	TJD
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/26/2018 07:19	11/27/2018 07:42	TJD
319-85-7	beta-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:42	TJD
319-86-8	delta-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:42	TJD
60-57-1	Dieldrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:42	TJD
959-98-8	Endosulfan I	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:42	TJD
33213-65-9	Endosulfan II	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/26/2018 07:19	11/27/2018 07:42	TJD
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:42	TJD
72-20-8	Endrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:42	TJD
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:42	TJD
76-44-8	Heptachlor	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:42	TJD
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	83.8 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	77.1 %	30-150							

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 11:58	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 11:58	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 11:58	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 11:58	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 11:58	TJD



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Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 11:58	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 11:58	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications:	11/26/2018 07:19	11/27/2018 11:58	TJD
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	64.4 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	43.3 %	30-140							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	5700		mg/kg dry	5.31	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:41	KML
7440-36-0	Antimony	ND		mg/kg dry	2.66	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:41	KML
7440-38-2	Arsenic	ND		mg/kg dry	1.59	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:41	KML
7440-39-3	Barium	50.6		mg/kg dry	2.66	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:41	KML
7440-41-7	Beryllium	0.055		mg/kg dry	0.053	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:41	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.319	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:41	KML
7440-70-2	Calcium	1110		mg/kg dry	5.31	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:41	KML
7440-47-3	Chromium	9.96		mg/kg dry	0.531	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:41	KML
7440-48-4	Cobalt	5.43		mg/kg dry	0.425	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:41	KML
7440-50-8	Copper	13.2		mg/kg dry	2.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:41	KML
7439-89-6	Iron	10100		mg/kg dry	26.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:41	KML
7439-92-1	Lead	8.95		mg/kg dry	0.531	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:41	KML
7439-95-4	Magnesium	1770		mg/kg dry	5.31	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:41	KML
7439-96-5	Manganese	157		mg/kg dry	0.531	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:41	KML



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Metals, Target Analyte

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Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-02-0	Nickel	11.1		mg/kg dry	1.06	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:41	KML
7440-09-7	Potassium	1110	B	mg/kg dry	5.31	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:41	KML
7782-49-2	Selenium	ND		mg/kg dry	2.66	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:41	KML
7440-22-4	Silver	ND		mg/kg dry	0.531	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:41	KML
7440-23-5	Sodium	331		mg/kg dry	53.1	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:41	KML
7440-28-0	Thallium	ND		mg/kg dry	2.66	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:41	KML
7440-62-2	Vanadium	15.0		mg/kg dry	1.06	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:41	KML
7440-66-6	Zinc	22.8		mg/kg dry	2.66	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/16/2018 10:50	11/26/2018 15:41	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.209		mg/kg dry	0.0319	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/16/2018 15:23	11/17/2018 01:33	SY

Total Solids

Log-in Notes:

Sample Notes:

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	94.1		%	0.100	1	SM 2540G Certifications: CTDOH	11/26/2018 10:25	11/26/2018 13:28	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.531	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/26/2018 08:41	11/26/2018 18:25	MAC

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	9.96		mg/kg	0.500	1	Calculation	11/30/2018 14:23	11/30/2018 14:45	PAM
Certifications:										

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.531	1	EPA 9014/9010C	11/27/2018 09:19	11/27/2018 17:00	JTV
Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP										

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	NMeFOSAA	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	NEtFOSAA	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
72629-94-8	Perfluorotridecanoic acid (PFTriDA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	



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Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	Surrogate Recoveries	Result					Acceptance Range			
	Surrogate: 13C-PFHxA	%					70-130			
	Surrogate: 13C-PFDA	%					70-130			
	Surrogate: d5-NEtFOSAA	%					70-130			

Sample Information

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Volatile Organics, NYSDEC Part 375 List

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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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 01:15	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 01:15	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 01:15	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 01:15	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 01:15	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 01:15	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 01:15	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 01:15	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 01:15	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	54	110	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 01:15	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 01:15	LLJ



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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
67-64-1	Acetone	14		ug/kg dry	5.4	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 01:15	LLJ
71-43-2	Benzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 01:15	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 01:15	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 01:15	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 01:15	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 01:15	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 01:15	LLJ
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,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 01:15	LLJ
75-09-2	Methylene chloride	ND		ug/kg dry	5.4	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 01:15	LLJ
91-20-3	Naphthalene	4.8	J, B	ug/kg dry	2.7	11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 01:15	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 01:15	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 01:15	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/20/2018 15:20	11/21/2018 01:15	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.4	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/20/2018 15:20	11/21/2018 01:15	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 01:15	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 01:15	LLJ
127-18-4	Tetrachloroethylene	7.2		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 01:15	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 01:15	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 01:15	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 01:15	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/20/2018 15:20	11/21/2018 01:15	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.1	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/20/2018 15:20	11/21/2018 01:15	LLJ
	Surrogate Recoveries	Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	91.1 %			77-125						



Sample Information

Client Sample ID: Dup 1114

York Sample ID: 18K0636-20

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Soil

November 15, 2018 11:14 am

11/15/2018

Volatile Organics, NYSDEC Part 375 List

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
2037-26-5	Surrogate: SURR: Toluene-d8	104 %			85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	107 %			76-130						

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 12:24	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 12:24	SR
83-32-9	Acenaphthene	113		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 12:24	SR
208-96-8	Acenaphthylene	159		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 12:24	SR
120-12-7	Anthracene	305		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 12:24	SR
56-55-3	Benzo(a)anthracene	1110		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 12:24	SR
50-32-8	Benzo(a)pyrene	1100		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 12:24	SR
205-99-2	Benzo(b)fluoranthene	984		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 12:24	SR
191-24-2	Benzo(g,h,i)perylene	639		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 12:24	SR
207-08-9	Benzo(k)fluoranthene	910		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 12:24	SR
218-01-9	Chrysene	1110		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 12:24	SR
53-70-3	Dibenzo(a,h)anthracene	176		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 12:24	SR
132-64-9	Dibenzofuran	61.7	J	ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 12:24	SR
206-44-0	Fluoranthene	2170		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 12:24	SR
86-73-7	Fluorene	111		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 12:24	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 12:24	SR
193-39-5	Indeno(1,2,3-cd)pyrene	591		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 12:24	SR
91-20-3	Naphthalene	49.5	J	ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 12:24	SR



Sample Information

Client Sample ID: Dup 1114

York Sample ID: 18K0636-20

<u>York Project (SDG) No.</u> 18K0636	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 15, 2018 11:14 am	<u>Date Received</u> 11/15/2018
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Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-86-5	Pentachlorophenol	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 12:24	SR
85-01-8	Phenanthrene	1260		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 12:24	SR
108-95-2	Phenol	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 12:24	SR
129-00-0	Pyrene	2320		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 14:45	11/27/2018 12:24	SR
Surrogate Recoveries		Result			Acceptance Range						
367-12-4	Surrogate: SURR: 2-Fluorophenol	54.3 %			20-108						
4165-62-2	Surrogate: SURR: Phenol-d5	50.2 %			23-114						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	53.4 %			22-108						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	67.4 %			21-113						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	60.9 %			19-110						
1718-51-0	Surrogate: SURR: Terphenyl-d14	91.3 %			24-116						

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:57	TJD
72-55-9	4,4'-DDE	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:57	TJD
50-29-3	4,4'-DDT	41.5		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:57	TJD
309-00-2	Aldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:57	TJD
319-84-6	alpha-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:57	TJD
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/26/2018 07:19	11/27/2018 07:57	TJD
319-85-7	beta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:57	TJD
319-86-8	delta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:57	TJD
60-57-1	Dieldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:57	TJD
959-98-8	Endosulfan I	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:57	TJD
33213-65-9	Endosulfan II	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/26/2018 07:19	11/27/2018 07:57	TJD
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:57	TJD



Sample Information

Client Sample ID: Dup 1114

York Sample ID: 18K0636-20

<u>York Project (SDG) No.</u> 18K0636	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 15, 2018 11:14 am	<u>Date Received</u> 11/15/2018
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Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-20-8	Endrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:57	TJD
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:57	TJD
76-44-8	Heptachlor	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 07:57	TJD
Surrogate Recoveries		Result		Acceptance Range						
2051-24-3	Surrogate: Decachlorobiphenyl	71.6 %		30-150						
877-09-8	Surrogate: Tetrachloro-m-xylene	64.0 %		30-150						

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 12:12	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 12:12	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 12:12	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 12:12	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 12:12	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 12:12	TJD
11096-82-5	Aroclor 1260	0.0310		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 07:19	11/27/2018 12:12	TJD
1336-36-3	* Total PCBs	0.0310		mg/kg dry	0.0179	1	EPA 8082A Certifications:	11/26/2018 07:19	11/27/2018 12:12	TJD
Surrogate Recoveries		Result		Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	55.9 %		30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	43.8 %		30-140						

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	6000		mg/kg dry	5.37	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 10:23	11/20/2018 14:30	KML
7440-36-0	Antimony	25.7		mg/kg dry	2.68	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 10:23	11/20/2018 14:30	KML



Sample Information

Client Sample ID: Dup 1114

York Sample ID: 18K0636-20

York Project (SDG) No.

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Matrix

Collection Date/Time

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18K0636

37321-STX 27-10 49th Ave

Soil

November 15, 2018 11:14 am

11/15/2018

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	9.21		mg/kg dry	1.61	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 10:23	11/20/2018 14:30	KML
7440-39-3	Barium	420		mg/kg dry	2.68	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 10:23	11/20/2018 14:30	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.054	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 10:23	11/20/2018 14:30	KML
7440-43-9	Cadmium	11.3		mg/kg dry	0.322	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 10:23	11/20/2018 14:30	KML
7440-70-2	Calcium	17300		mg/kg dry	5.37	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 10:23	11/20/2018 14:30	KML
7440-47-3	Chromium	1370		mg/kg dry	0.537	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 10:23	11/20/2018 14:30	KML
7440-48-4	Cobalt	18.0		mg/kg dry	0.429	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 10:23	11/20/2018 14:30	KML
7440-50-8	Copper	191		mg/kg dry	2.15	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 10:23	11/20/2018 14:30	KML
7439-89-6	Iron	35800		mg/kg dry	26.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 10:23	11/20/2018 14:30	KML
7439-92-1	Lead	2900		mg/kg dry	0.537	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 10:23	11/20/2018 14:30	KML
7439-95-4	Magnesium	2690		mg/kg dry	5.37	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 10:23	11/20/2018 14:30	KML
7439-96-5	Manganese	306		mg/kg dry	0.537	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 10:23	11/20/2018 14:30	KML
7440-02-0	Nickel	134		mg/kg dry	1.07	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 10:23	11/20/2018 14:30	KML
7440-09-7	Potassium	1730		mg/kg dry	5.37	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 10:23	11/20/2018 14:30	KML
7782-49-2	Selenium	ND		mg/kg dry	2.68	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 10:23	11/20/2018 14:30	KML
7440-22-4	Silver	15.9		mg/kg dry	0.537	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 10:23	11/20/2018 14:30	KML
7440-23-5	Sodium	617		mg/kg dry	53.7	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 10:23	11/20/2018 14:30	KML
7440-28-0	Thallium	ND		mg/kg dry	2.68	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 10:23	11/20/2018 14:30	KML
7440-62-2	Vanadium	36.9		mg/kg dry	1.07	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 10:23	11/20/2018 14:30	KML
7440-66-6	Zinc	3070		mg/kg dry	2.68	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 10:23	11/20/2018 14:30	KML

Mercury by 7473

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: Dup 1114

York Sample ID: 18K0636-20

<u>York Project (SDG) No.</u> 18K0636	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 15, 2018 11:14 am	<u>Date Received</u> 11/15/2018
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Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.474		mg/kg dry	0.0322	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/21/2018 09:16	11/21/2018 11:39	SY

Total Solids

Log-in Notes:

Sample Notes:

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	93.2		%	0.100	1	SM 2540G Certifications: CTDOH	11/26/2018 10:25	11/26/2018 13:28	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	142		mg/kg dry	13.4	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/28/2018 08:42	11/28/2018 16:58	MAC

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	1230		mg/kg	0.500	1	Calculation Certifications:	11/30/2018 14:23	11/30/2018 14:45	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	0.719		mg/kg dry	0.537	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/27/2018 09:19	11/27/2018 17:00	JTV

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	



Sample Information

Client Sample ID: Dup 1114

York Sample ID: 18K0636-20

<u>York Project (SDG) No.</u> 18K0636	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 15, 2018 11:14 am	<u>Date Received</u> 11/15/2018
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Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	NMeFOSAA	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
	NEtFOSAA	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ng/kg	See attach	1	See attached Certifications:	11/26/2018 00:00	11/30/2018 00:00	

Surrogate Recoveries

	Result	Acceptance Range
Surrogate: 13C-PFHxA	%	70-130
Surrogate: 13C-PFDA	%	70-130
Surrogate: d5-NEtFOSAA	%	70-130

Sample Information

Client Sample ID: Trip Blank

York Sample ID: 18K0636-21

<u>York Project (SDG) No.</u> 18K0636	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Water	<u>Collection Date/Time</u> November 15, 2018 12:00 am	<u>Date Received</u> 11/15/2018
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Volatile Organics, NYSDEC Part 375 List

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
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@		



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 18K0636-21

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Water

November 15, 2018 12:00 am

11/15/2018

Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/17/2018 19:16	11/17/2018 22:20	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/17/2018 19:16	11/17/2018 22:20	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/17/2018 19:16	11/17/2018 22:20	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/17/2018 19:16	11/17/2018 22:20	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/17/2018 19:16	11/17/2018 22:20	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/17/2018 19:16	11/17/2018 22:20	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/17/2018 19:16	11/17/2018 22:20	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/17/2018 19:16	11/17/2018 22:20	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/17/2018 19:16	11/17/2018 22:20	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/17/2018 19:16	11/17/2018 22:20	LLJ
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/17/2018 19:16	11/17/2018 22:20	LLJ
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/17/2018 19:16	11/17/2018 22:20	LLJ
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/17/2018 19:16	11/17/2018 22:20	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/17/2018 19:16	11/17/2018 22:20	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/17/2018 19:16	11/17/2018 22:20	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/17/2018 19:16	11/17/2018 22:20	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/17/2018 19:16	11/17/2018 22:20	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/17/2018 19:16	11/17/2018 22:20	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/17/2018 19:16	11/17/2018 22:20	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/17/2018 19:16	11/17/2018 22:20	LLJ
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/17/2018 19:16	11/17/2018 22:20	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/17/2018 19:16	11/17/2018 22:20	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/17/2018 19:16	11/17/2018 22:20	LLJ



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 18K0636-21

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0636

37321-STX 27-10 49th Ave

Water

November 15, 2018 12:00 am

11/15/2018

Volatile Organics, NYSDEC Part 375 List

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
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/17/2018 19:16	11/17/2018 22:20	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/17/2018 19:16	11/17/2018 22:20	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/17/2018 19:16	11/17/2018 22:20	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/17/2018 19:16	11/17/2018 22:20	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/17/2018 19:16	11/17/2018 22:20	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/17/2018 19:16	11/17/2018 22:20	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/17/2018 19:16	11/17/2018 22:20	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/17/2018 19:16	11/17/2018 22:20	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	11/17/2018 19:16	11/17/2018 22:20	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058	11/17/2018 19:16	11/17/2018 22:20	LLJ
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	90.9 %			69-130						
2037-26-5	Surrogate: SURR: Toluene-d8	99.7 %			81-117						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	110 %			79-122						



Analytical Batch Summary

Batch ID: 11/30/2018

Preparation Method: Analysis Preparation

Prepared By:

YORK Sample ID	Client Sample ID	Preparation Date
18K0636-01	SB-70A	11/26/18
18K0636-02	SB-70B	11/26/18
18K0636-03	SB-71A	11/26/18
18K0636-04	SB-71B	11/26/18
18K0636-05	SB-72A	11/26/18
18K0636-06	SB-72B	11/26/18
18K0636-07	SB-72C	11/26/18
18K0636-08	SB-73A	11/26/18
18K0636-09	SB-73B	11/26/18
18K0636-10	SB-73C	11/26/18
18K0636-11	SB-74A	11/26/18
18K0636-12	SB-74B	11/26/18
18K0636-13	SB-75A	11/26/18
18K0636-14	SB-75B	11/26/18
18K0636-15	SB-76A	11/26/18
18K0636-16	SB-76B	11/26/18
18K0636-17	SB-77A	11/26/18
18K0636-18	SB-77B	11/26/18
18K0636-19	SB-77C	11/26/18
18K0636-20	Dup 1114	11/26/18

Batch ID: BK80911

Preparation Method: EPA 3050B

Prepared By: SY

YORK Sample ID	Client Sample ID	Preparation Date
18K0636-01	SB-70A	11/16/18
18K0636-02	SB-70B	11/16/18
18K0636-03	SB-71A	11/16/18
18K0636-04	SB-71B	11/16/18
18K0636-05	SB-72A	11/16/18
18K0636-06	SB-72B	11/16/18
18K0636-07	SB-72C	11/16/18
18K0636-08	SB-73A	11/16/18
18K0636-09	SB-73B	11/16/18
18K0636-10	SB-73C	11/16/18
18K0636-11	SB-74A	11/16/18
18K0636-12	SB-74B	11/16/18
18K0636-12RE1	SB-74B	11/16/18
18K0636-13	SB-75A	11/16/18
18K0636-14	SB-75B	11/16/18
18K0636-15	SB-76A	11/16/18
18K0636-16	SB-76B	11/16/18
18K0636-17	SB-77A	11/16/18
18K0636-17RE1	SB-77A	11/16/18
18K0636-18	SB-77B	11/16/18
18K0636-19	SB-77C	11/16/18
BK80911-BLK1	Blank	11/16/18



BK80911-DUP1	Duplicate	11/16/18
BK80911-MS1	Matrix Spike	11/16/18
BK80911-SRM1	Reference	11/16/18

Batch ID: BK80948 **Preparation Method:** EPA 5030B **Prepared By:** LDS

YORK Sample ID	Client Sample ID	Preparation Date
18K0636-21	Trip Blank	11/17/18
BK80948-BLK1	Blank	11/17/18
BK80948-BS1	LCS	11/17/18
BK80948-BSD1	LCS Dup	11/17/18

Batch ID: BK80952 **Preparation Method:** EPA 7473 soil **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
18K0636-01	SB-70A	11/16/18
18K0636-02	SB-70B	11/16/18
18K0636-03	SB-71A	11/16/18
18K0636-04	SB-71B	11/16/18
18K0636-05	SB-72A	11/16/18
18K0636-06	SB-72B	11/16/18
18K0636-07	SB-72C	11/16/18
18K0636-08	SB-73A	11/16/18
18K0636-09	SB-73B	11/16/18
18K0636-10	SB-73C	11/16/18
18K0636-11	SB-74A	11/16/18
18K0636-12	SB-74B	11/16/18
18K0636-13	SB-75A	11/16/18
18K0636-14	SB-75B	11/16/18
18K0636-15	SB-76A	11/16/18
18K0636-16	SB-76B	11/16/18
18K0636-17	SB-77A	11/16/18
18K0636-18	SB-77B	11/16/18
18K0636-19	SB-77C	11/16/18
BK80952-BLK1	Blank	11/16/18
BK80952-SRM1	Reference	11/16/18

Batch ID: BK80973 **Preparation Method:** EPA 5035A **Prepared By:** LDS

YORK Sample ID	Client Sample ID	Preparation Date
18K0636-01	SB-70A	11/17/18
18K0636-02	SB-70B	11/17/18
18K0636-03	SB-71A	11/17/18
18K0636-04	SB-71B	11/17/18
18K0636-05	SB-72A	11/17/18
BK80973-BLK1	Blank	11/17/18
BK80973-BS1	LCS	11/17/18
BK80973-BSD1	LCS Dup	11/17/18



Batch ID: BK80974

Preparation Method: EPA 5035A

Prepared By: LDS

YORK Sample ID	Client Sample ID	Preparation Date
18K0636-06	SB-72B	11/18/18
18K0636-08	SB-73A	11/18/18
BK80974-BLK1	Blank	11/18/18
BK80974-BS1	LCS	11/18/18
BK80974-BSD1	LCS Dup	11/18/18

Batch ID: BK81086

Preparation Method: EPA 3050B

Prepared By: SY

YORK Sample ID	Client Sample ID	Preparation Date
18K0636-20	Dup 1114	11/20/18
BK81086-BLK1	Blank	11/20/18
BK81086-SRM1	Reference	11/20/18

Batch ID: BK81146

Preparation Method: EPA 5035A

Prepared By: LDS

YORK Sample ID	Client Sample ID	Preparation Date
18K0636-07	SB-72C	11/20/18
18K0636-09	SB-73B	11/20/18
18K0636-10	SB-73C	11/20/18
18K0636-12	SB-74B	11/20/18
18K0636-13	SB-75A	11/20/18
18K0636-14	SB-75B	11/20/18
18K0636-16	SB-76B	11/20/18
18K0636-17	SB-77A	11/20/18
18K0636-18	SB-77B	11/20/18
18K0636-19	SB-77C	11/20/18
18K0636-20	Dup 1114	11/20/18
BK81146-BLK1	Blank	11/20/18
BK81146-BS1	LCS	11/20/18
BK81146-BSD1	LCS Dup	11/20/18

Batch ID: BK81155

Preparation Method: EPA 7473 soil

Prepared By: SY

YORK Sample ID	Client Sample ID	Preparation Date
18K0636-20	Dup 1114	11/21/18
BK81155-BLK1	Blank	11/21/18
BK81155-SRM1	Reference	11/21/18

Batch ID: BK81199

Preparation Method: EPA 5035A

Prepared By: LDS

YORK Sample ID	Client Sample ID	Preparation Date
18K0636-11	SB-74A	11/26/18
18K0636-15	SB-76A	11/26/18
BK81199-BLK1	Blank	11/26/18
BK81199-BS1	LCS	11/26/18
BK81199-BSD1	LCS Dup	11/26/18



Batch ID: BK81215

Preparation Method: EPA 3550C

Prepared By: AB

YORK Sample ID	Client Sample ID	Preparation Date
18K0636-01	SB-70A	11/26/18
18K0636-01	SB-70A	11/26/18
18K0636-02	SB-70B	11/26/18
18K0636-02	SB-70B	11/26/18
18K0636-03	SB-71A	11/26/18
18K0636-03	SB-71A	11/26/18
18K0636-04	SB-71B	11/26/18
18K0636-04	SB-71B	11/26/18
18K0636-05	SB-72A	11/26/18
18K0636-05	SB-72A	11/26/18
18K0636-06	SB-72B	11/26/18
18K0636-06	SB-72B	11/26/18
18K0636-07	SB-72C	11/26/18
18K0636-07	SB-72C	11/26/18
18K0636-08	SB-73A	11/26/18
18K0636-08	SB-73A	11/26/18
18K0636-09	SB-73B	11/26/18
18K0636-09	SB-73B	11/26/18
18K0636-10	SB-73C	11/26/18
18K0636-10	SB-73C	11/26/18
18K0636-11	SB-74A	11/26/18
18K0636-11	SB-74A	11/26/18
18K0636-12	SB-74B	11/26/18
18K0636-12	SB-74B	11/26/18
18K0636-13	SB-75A	11/26/18
18K0636-13	SB-75A	11/26/18
18K0636-14	SB-75B	11/26/18
18K0636-14	SB-75B	11/26/18
18K0636-15	SB-76A	11/26/18
18K0636-15	SB-76A	11/26/18
18K0636-16	SB-76B	11/26/18
18K0636-16	SB-76B	11/26/18
18K0636-17	SB-77A	11/26/18
18K0636-17	SB-77A	11/26/18
18K0636-18	SB-77B	11/26/18
18K0636-18	SB-77B	11/26/18
18K0636-19	SB-77C	11/26/18
18K0636-19	SB-77C	11/26/18
18K0636-20	Dup 1114	11/26/18
18K0636-20	Dup 1114	11/26/18
BK81215-BLK1	Blank	11/26/18
BK81215-BLK2	Blank	11/26/18
BK81215-BS1	LCS	11/26/18
BK81215-BS2	LCS	11/26/18
BK81215-MS1	Matrix Spike	11/26/18
BK81215-MSD1	Matrix Spike Dup	11/26/18



Batch ID: BK81216

Preparation Method: EPA 3550C

Prepared By: AB

YORK Sample ID	Client Sample ID	Preparation Date
18K0636-01	SB-70A	11/26/18
18K0636-02	SB-70B	11/26/18
18K0636-03	SB-71A	11/26/18
18K0636-04	SB-71B	11/26/18
18K0636-04RE1	SB-71B	11/26/18
18K0636-05	SB-72A	11/26/18
18K0636-06	SB-72B	11/26/18
18K0636-07	SB-72C	11/26/18
18K0636-08	SB-73A	11/26/18
18K0636-09	SB-73B	11/26/18
BK81216-BLK1	Blank	11/26/18
BK81216-BS1	LCS	11/26/18

Batch ID: BK81229

Preparation Method: Analysis Preparation Soil

Prepared By: JTV

YORK Sample ID	Client Sample ID	Preparation Date
18K0636-01	SB-70A	11/26/18
18K0636-02	SB-70B	11/26/18
BK81229-BLK1	Blank	11/26/18
BK81229-BS1	LCS	11/26/18

Batch ID: BK81232

Preparation Method: EPA SW846-3060

Prepared By: MAC

YORK Sample ID	Client Sample ID	Preparation Date
18K0636-01	SB-70A	11/26/18
18K0636-02	SB-70B	11/26/18
18K0636-03	SB-71A	11/26/18
18K0636-04	SB-71B	11/26/18
18K0636-05	SB-72A	11/26/18
18K0636-06	SB-72B	11/26/18
18K0636-07	SB-72C	11/26/18
18K0636-08	SB-73A	11/26/18
18K0636-09	SB-73B	11/26/18
BK81232-BLK1	Blank	11/26/18
BK81232-SRM1	Reference	11/26/18

Batch ID: BK81234

Preparation Method: EPA SW846-3060

Prepared By: MAC

YORK Sample ID	Client Sample ID	Preparation Date
18K0636-10	SB-73C	11/26/18
18K0636-11	SB-74A	11/26/18
18K0636-12	SB-74B	11/26/18
18K0636-13	SB-75A	11/26/18
18K0636-14	SB-75B	11/26/18
18K0636-15	SB-76A	11/26/18
18K0636-16	SB-76B	11/26/18
18K0636-17	SB-77A	11/26/18



18K0636-18	SB-77B	11/26/18
18K0636-19	SB-77C	11/26/18
BK81234-BLK2	Blank	11/26/18
BK81234-SRM2	Reference	11/26/18

Batch ID: BK81253 **Preparation Method:** % Solids Prep **Prepared By:** TAJ

YORK Sample ID	Client Sample ID	Preparation Date
18K0636-01	SB-70A	11/26/18
18K0636-02	SB-70B	11/26/18
18K0636-03	SB-71A	11/26/18
18K0636-04	SB-71B	11/26/18
18K0636-05	SB-72A	11/26/18
18K0636-06	SB-72B	11/26/18
18K0636-07	SB-72C	11/26/18
18K0636-08	SB-73A	11/26/18
18K0636-09	SB-73B	11/26/18
18K0636-10	SB-73C	11/26/18
18K0636-11	SB-74A	11/26/18
18K0636-12	SB-74B	11/26/18
18K0636-13	SB-75A	11/26/18
18K0636-14	SB-75B	11/26/18
18K0636-15	SB-76A	11/26/18
18K0636-16	SB-76B	11/26/18
18K0636-17	SB-77A	11/26/18
18K0636-18	SB-77B	11/26/18
18K0636-19	SB-77C	11/26/18
18K0636-20	Dup 1114	11/26/18
BK81253-DUP1	Duplicate	11/26/18

Batch ID: BK81282 **Preparation Method:** EPA 3550C **Prepared By:** ZRM

YORK Sample ID	Client Sample ID	Preparation Date
18K0636-10	SB-73C	11/26/18
18K0636-11	SB-74A	11/26/18
18K0636-12	SB-74B	11/26/18
18K0636-13	SB-75A	11/26/18
18K0636-14	SB-75B	11/26/18
18K0636-15	SB-76A	11/26/18
18K0636-16	SB-76B	11/26/18
18K0636-17	SB-77A	11/26/18
18K0636-17RE1	SB-77A	11/26/18
18K0636-18	SB-77B	11/26/18
18K0636-19	SB-77C	11/26/18
18K0636-20	Dup 1114	11/26/18
BK81282-BLK1	Blank	11/26/18
BK81282-BS1	LCS	11/26/18

Batch ID: BK81317 **Preparation Method:** Analysis Preparation Soil **Prepared By:** JTV



YORK Sample ID	Client Sample ID	Preparation Date
18K0636-03	SB-71A	11/27/18
18K0636-04	SB-71B	11/27/18
18K0636-05	SB-72A	11/27/18
18K0636-06	SB-72B	11/27/18
18K0636-07	SB-72C	11/27/18
18K0636-08	SB-73A	11/27/18
18K0636-09	SB-73B	11/27/18
18K0636-10	SB-73C	11/27/18
18K0636-11	SB-74A	11/27/18
18K0636-12	SB-74B	11/27/18
18K0636-13	SB-75A	11/27/18
18K0636-14	SB-75B	11/27/18
18K0636-15	SB-76A	11/27/18
18K0636-16	SB-76B	11/27/18
18K0636-17	SB-77A	11/27/18
BK81317-BLK1	Blank	11/27/18
BK81317-SRM1	Reference	11/27/18

Batch ID: BK81325 **Preparation Method:** Analysis Preparation Soil **Prepared By:** JTV

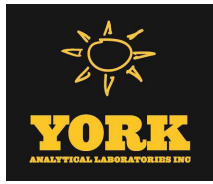
YORK Sample ID	Client Sample ID	Preparation Date
18K0636-18	SB-77B	11/27/18
18K0636-19	SB-77C	11/27/18
18K0636-20	Dup 1114	11/27/18
BK81325-BLK1	Blank	11/27/18
BK81325-SRM1	Reference	11/27/18

Batch ID: BK81412 **Preparation Method:** EPA SW846-3060 **Prepared By:** MAC

YORK Sample ID	Client Sample ID	Preparation Date
18K0636-20	Dup 1114	11/28/18
BK81412-BLK1	Blank	11/28/18
BK81412-SRM1	Reference	11/28/18

Batch ID: BK81601 **Preparation Method:** Analysis Preparation **Prepared By:** PAM

YORK Sample ID	Client Sample ID	Preparation Date
18K0636-01	SB-70A	11/30/18
18K0636-02	SB-70B	11/30/18
18K0636-03	SB-71A	11/30/18
18K0636-04	SB-71B	11/30/18
18K0636-05	SB-72A	11/30/18
18K0636-06	SB-72B	11/30/18
18K0636-07	SB-72C	11/30/18
18K0636-08	SB-73A	11/30/18
18K0636-09	SB-73B	11/30/18
18K0636-10	SB-73C	11/30/18
18K0636-11	SB-74A	11/30/18
18K0636-12	SB-74B	11/30/18



18K0636-13	SB-75A	11/30/18
18K0636-14	SB-75B	11/30/18
18K0636-15	SB-76A	11/30/18
18K0636-16	SB-76B	11/30/18
18K0636-17	SB-77A	11/30/18
18K0636-18	SB-77B	11/30/18
18K0636-19	SB-77C	11/30/18
18K0636-20	Dup 1114	11/30/18



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 Limit	Flag
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Batch BK80948 - EPA 5030B

Blank (BK80948-BLK1)

Prepared & Analyzed: 11/17/2018

1,1,1-Trichloroethane	ND	0.50	ug/L								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	80	"								
2-Butanone	ND	0.50	"								
Acetone	ND	2.0	"								
Benzene	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroform	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
Ethyl Benzene	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	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
sec-Butylbenzene	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
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Surrogate: SURR: 1,2-Dichloroethane-d4	9.15		"	10.0		91.5	69-130				
Surrogate: SURR: Toluene-d8	10.1		"	10.0		101	81-117				
Surrogate: SURR: p-Bromofluorobenzene	11.0		"	10.0		110	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 BK80948 - EPA 5030B

LCS (BK80948-BS1)

Prepared & Analyzed: 11/17/2018

1,1,1-Trichloroethane	8.4		ug/L	10.0		84.4	78-136				
1,1-Dichloroethane	8.6		"	10.0		86.2	82-129				
1,1-Dichloroethylene	8.8		"	10.0		87.5	68-138				
1,2,4-Trimethylbenzene	9.9		"	10.0		99.1	82-132				
1,2-Dichlorobenzene	8.9		"	10.0		88.6	79-123				
1,2-Dichloroethane	8.4		"	10.0		84.2	73-132				
1,3,5-Trimethylbenzene	10		"	10.0		101	80-131				
1,3-Dichlorobenzene	8.7		"	10.0		86.7	86-122				
1,4-Dichlorobenzene	8.7		"	10.0		86.6	85-124				
1,4-Dioxane	180		"	210		87.6	10-349				
2-Butanone	8.2		"	10.0		82.5	49-152				
Acetone	8.1		"	10.0		80.8	14-150				
Benzene	9.3		"	10.0		93.1	85-126				
Carbon tetrachloride	8.6		"	10.0		85.8	77-141				
Chlorobenzene	9.0		"	10.0		90.4	88-120				
Chloroform	8.9		"	10.0		89.0	82-128				
cis-1,2-Dichloroethylene	8.6		"	10.0		86.5	83-129				
Ethyl Benzene	9.9		"	10.0		99.3	80-131				
Methyl tert-butyl ether (MTBE)	8.6		"	10.0		86.2	76-135				
Methylene chloride	8.6		"	10.0		85.5	55-137				
Naphthalene	9.2		"	10.0		91.5	70-147				
n-Butylbenzene	9.9		"	10.0		98.7	79-132				
n-Propylbenzene	11		"	10.0		109	78-133				
o-Xylene	9.3		"	10.0		93.1	78-130				
p- & m- Xylenes	21		"	20.0		107	77-133				
sec-Butylbenzene	11		"	10.0		107	79-137				
tert-Butylbenzene	10		"	10.0		99.8	77-138				
Tetrachloroethylene	9.2		"	10.0		91.6	82-131				
Toluene	9.4		"	10.0		93.7	80-127				
trans-1,2-Dichloroethylene	8.6		"	10.0		85.8	80-132				
Trichloroethylene	8.7		"	10.0		87.0	82-128				
Vinyl Chloride	6.7		"	10.0		67.1	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	9.52		"	10.0		95.2	69-130				
Surrogate: SURR: Toluene-d8	10.0		"	10.0		100	81-117				
Surrogate: SURR: p-Bromofluorobenzene	10.6		"	10.0		106	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 BK80948 - EPA 5030B

LCS Dup (BK80948-BSD1)

Prepared & Analyzed: 11/17/2018

1,1,1-Trichloroethane	9.3		ug/L	10.0		92.9	78-136		9.59	30	
1,1-Dichloroethane	9.4		"	10.0		94.5	82-129		9.19	30	
1,1-Dichloroethylene	9.5		"	10.0		95.1	68-138		8.32	30	
1,2,4-Trimethylbenzene	11		"	10.0		111	82-132		11.1	30	
1,2-Dichlorobenzene	10		"	10.0		99.8	79-123		11.9	30	
1,2-Dichloroethane	9.8		"	10.0		97.7	73-132		14.8	30	
1,3,5-Trimethylbenzene	11		"	10.0		112	80-131		10.7	30	
1,3-Dichlorobenzene	9.7		"	10.0		97.4	86-122		11.6	30	
1,4-Dichlorobenzene	9.8		"	10.0		97.5	85-124		11.8	30	
1,4-Dioxane	210		"	210		97.7	10-349		11.0	30	
2-Butanone	5.9		"	10.0		59.3	49-152		32.7	30	Non-dir.
Acetone	9.5		"	10.0		94.8	14-150		15.9	30	
Benzene	10		"	10.0		102	85-126		8.93	30	
Carbon tetrachloride	9.2		"	10.0		92.4	77-141		7.41	30	
Chlorobenzene	9.9		"	10.0		98.9	88-120		8.98	30	
Chloroform	9.9		"	10.0		98.6	82-128		10.2	30	
cis-1,2-Dichloroethylene	9.4		"	10.0		94.2	83-129		8.52	30	
Ethyl Benzene	11		"	10.0		106	80-131		6.90	30	
Methyl tert-butyl ether (MTBE)	10		"	10.0		99.9	76-135		14.7	30	
Methylene chloride	9.7		"	10.0		97.2	55-137		12.8	30	
Naphthalene	11		"	10.0		110	70-147		18.4	30	
n-Butylbenzene	11		"	10.0		107	79-132		8.44	30	
n-Propylbenzene	12		"	10.0		118	78-133		8.53	30	
o-Xylene	10		"	10.0		100	78-130		7.64	30	
p- & m- Xylenes	23		"	20.0		116	77-133		7.35	30	
sec-Butylbenzene	12		"	10.0		116	79-137		8.42	30	
tert-Butylbenzene	11		"	10.0		108	77-138		7.98	30	
Tetrachloroethylene	9.7		"	10.0		97.4	82-131		6.14	30	
Toluene	10		"	10.0		102	80-127		8.19	30	
trans-1,2-Dichloroethylene	9.4		"	10.0		94.5	80-132		9.65	30	
Trichloroethylene	9.4		"	10.0		94.5	82-128		8.26	30	
Vinyl Chloride	7.3		"	10.0		73.1	58-145		8.56	30	
Surrogate: SURRE: 1,2-Dichloroethane-d4	9.38		"	10.0		93.8	69-130				
Surrogate: SURRE: Toluene-d8	9.85		"	10.0		98.5	81-117				
Surrogate: SURRE: p-Bromofluorobenzene	10.7		"	10.0		107	79-122				



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit								Limit			

Batch BK80973 - EPA 5035A

Blank (BK80973-BLK1)

Prepared & Analyzed: 11/17/2018

1,1,1-Trichloroethane	ND	5.0	ug/kg wet										
1,1-Dichloroethane	ND	5.0	"										
1,1-Dichloroethylene	ND	5.0	"										
1,2,4-Trimethylbenzene	ND	5.0	"										
1,2-Dichlorobenzene	ND	5.0	"										
1,2-Dichloroethane	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	"										
Acetone	ND	10	"										
Benzene	ND	5.0	"										
Carbon tetrachloride	ND	5.0	"										
Chlorobenzene	ND	5.0	"										
Chloroform	ND	5.0	"										
cis-1,2-Dichloroethylene	ND	5.0	"										
Ethyl Benzene	ND	5.0	"										
Methyl tert-butyl ether (MTBE)	ND	5.0	"										
Methylene chloride	ND	10	"										
Naphthalene	ND	10	"										
n-Butylbenzene	ND	5.0	"										
n-Propylbenzene	ND	5.0	"										
o-Xylene	ND	5.0	"										
p- & m- Xylenes	ND	10	"										
sec-Butylbenzene	ND	5.0	"										
tert-Butylbenzene	ND	5.0	"										
Tetrachloroethylene	ND	5.0	"										
Toluene	ND	5.0	"										
trans-1,2-Dichloroethylene	ND	5.0	"										
Trichloroethylene	ND	5.0	"										
Vinyl Chloride	ND	5.0	"										
Xylenes, Total	ND	15	"										
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	51.6		ug/L	50.0		103		77-125					
<i>Surrogate: SURR: Toluene-d8</i>	52.2		"	50.0		104		85-120					
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	56.9		"	50.0		114		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 BK80973 - EPA 5035A

LCS (BK80973-BS1)

Prepared & Analyzed: 11/17/2018

1,1,1-Trichloroethane	48		ug/L	50.0		95.1	71-137				
1,1-Dichloroethane	46		"	50.0		93.0	75-130				
1,1-Dichloroethylene	29		"	50.0		57.6	64-137	Low Bias			
1,2,4-Trimethylbenzene	48		"	50.0		95.4	84-125				
1,2-Dichlorobenzene	58		"	50.0		115	85-122				
1,2-Dichloroethane	52		"	50.0		104	71-133				
1,3,5-Trimethylbenzene	51		"	50.0		102	82-126				
1,3-Dichlorobenzene	54		"	50.0		107	84-124				
1,4-Dichlorobenzene	57		"	50.0		115	84-124				
1,4-Dioxane	1700		"	1050		158	10-228				
2-Butanone	45		"	50.0		89.0	58-147				
Acetone	20		"	50.0		39.3	36-155				
Benzene	49		"	50.0		97.2	77-127				
Carbon tetrachloride	48		"	50.0		95.3	66-143				
Chlorobenzene	54		"	50.0		109	86-120				
Chloroform	51		"	50.0		101	76-131				
cis-1,2-Dichloroethylene	48		"	50.0		95.8	74-132				
Ethyl Benzene	51		"	50.0		102	84-125				
Methyl tert-butyl ether (MTBE)	48		"	50.0		95.3	74-131				
Methylene chloride	32		"	50.0		64.1	57-141				
Naphthalene	55		"	50.0		110	86-141				
n-Butylbenzene	50		"	50.0		101	80-130				
n-Propylbenzene	48		"	50.0		97.0	74-136				
o-Xylene	54		"	50.0		108	83-123				
p- & m- Xylenes	100		"	100		100	82-128				
sec-Butylbenzene	54		"	50.0		107	83-125				
tert-Butylbenzene	52		"	50.0		105	80-127				
Tetrachloroethylene	54		"	50.0		108	80-129				
Toluene	52		"	50.0		104	85-121				
trans-1,2-Dichloroethylene	46		"	50.0		91.4	72-132				
Trichloroethylene	56		"	50.0		111	84-123				
Vinyl Chloride	48		"	50.0		96.6	52-130				
Surrogate: Surr: 1,2-Dichloroethane-d4	53.7		"	50.0		107	77-125				
Surrogate: Surr: Toluene-d8	51.1		"	50.0		102	85-120				
Surrogate: Surr: p-Bromofluorobenzene	50.7		"	50.0		101	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
Batch BK80973 - EPA 5035A											
LCS Dup (BK80973-BSD1)											
Prepared & Analyzed: 11/17/2018											
1,1,1-Trichloroethane	47		ug/L	50.0		94.3	71-137		0.803		30
1,1-Dichloroethane	46		"	50.0		92.0	75-130		1.04		30
1,1-Dichloroethylene	29		"	50.0		57.5	64-137	Low Bias	0.139		30
1,2,4-Trimethylbenzene	46		"	50.0		92.7	84-125		2.83		30
1,2-Dichlorobenzene	57		"	50.0		114	85-122		1.28		30
1,2-Dichloroethane	51		"	50.0		103	71-133		0.601		30
1,3,5-Trimethylbenzene	49		"	50.0		98.8	82-126		3.11		30
1,3-Dichlorobenzene	52		"	50.0		105	84-124		2.35		30
1,4-Dichlorobenzene	56		"	50.0		112	84-124		2.69		30
1,4-Dioxane	2200		"	1050		205	10-228		25.9		30
2-Butanone	43		"	50.0		85.1	58-147		4.55		30
Acetone	23		"	50.0		45.4	36-155		14.4		30
Benzene	47		"	50.0		93.9	77-127		3.39		30
Carbon tetrachloride	47		"	50.0		94.2	66-143		1.20		30
Chlorobenzene	53		"	50.0		106	86-120		2.06		30
Chloroform	49		"	50.0		99.0	76-131		2.34		30
cis-1,2-Dichloroethylene	46		"	50.0		93.0	74-132		2.97		30
Ethyl Benzene	51		"	50.0		101	84-125		1.26		30
Methyl tert-butyl ether (MTBE)	48		"	50.0		95.3	74-131		0.0420		30
Methylene chloride	33		"	50.0		65.2	57-141		1.70		30
Naphthalene	54		"	50.0		107	86-141		2.43		30
n-Butylbenzene	49		"	50.0		99.0	80-130		1.80		30
n-Propylbenzene	47		"	50.0		93.1	74-136		4.12		30
o-Xylene	53		"	50.0		106	83-123		1.64		30
p- & m- Xylenes	98		"	100		98.2	82-128		2.31		30
sec-Butylbenzene	52		"	50.0		105	83-125		2.41		30
tert-Butylbenzene	51		"	50.0		101	80-127		3.55		30
Tetrachloroethylene	53		"	50.0		105	80-129		2.81		30
Toluene	51		"	50.0		101	85-121		2.17		30
trans-1,2-Dichloroethylene	45		"	50.0		90.2	72-132		1.37		30
Trichloroethylene	54		"	50.0		108	84-123		2.85		30
Vinyl Chloride	49		"	50.0		97.9	52-130		1.36		30
Surrogate: SURRE: 1,2-Dichloroethane-d4	54.0		"	50.0		108	77-125				
Surrogate: SURRE: Toluene-d8	51.4		"	50.0		103	85-120				
Surrogate: SURRE: p-Bromofluorobenzene	51.0		"	50.0		102	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit								RPD	

Batch BK80974 - EPA 5035A

Blank (BK80974-BLK1)

Prepared & Analyzed: 11/18/2018

1,1,1-Trichloroethane	ND	5.0	ug/kg wet								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	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	"								
Acetone	ND	10	"								
Benzene	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroform	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylene chloride	ND	10	"								
Naphthalene	ND	10	"								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
sec-Butylbenzene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	52.7		ug/L	50.0		105		77-125			
<i>Surrogate: SURR: Toluene-d8</i>	51.6		"	50.0		103		85-120			
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	56.0		"	50.0		112		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 BK80974 - EPA 5035A

LCS (BK80974-BS1)

Prepared & Analyzed: 11/18/2018

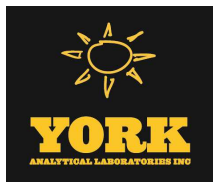
1,1,1-Trichloroethane	41		ug/L	50.0		82.6	71-137				
1,1-Dichloroethane	41		"	50.0		81.5	75-130				
1,1-Dichloroethylene	24		"	50.0		48.4	64-137	Low Bias			
1,2,4-Trimethylbenzene	40		"	50.0		79.8	84-125	Low Bias			
1,2-Dichlorobenzene	50		"	50.0		99.3	85-122				
1,2-Dichloroethane	47		"	50.0		93.4	71-133				
1,3,5-Trimethylbenzene	42		"	50.0		84.1	82-126				
1,3-Dichlorobenzene	44		"	50.0		88.6	84-124				
1,4-Dichlorobenzene	48		"	50.0		96.4	84-124				
1,4-Dioxane	2300		"	1050		221	10-228				
2-Butanone	38		"	50.0		75.6	58-147				
Acetone	19		"	50.0		37.3	36-155				
Benzene	42		"	50.0		83.9	77-127				
Carbon tetrachloride	42		"	50.0		83.5	66-143				
Chlorobenzene	47		"	50.0		94.4	86-120				
Chloroform	44		"	50.0		87.7	76-131				
cis-1,2-Dichloroethylene	41		"	50.0		82.3	74-132				
Ethyl Benzene	45		"	50.0		89.6	84-125				
Methyl tert-butyl ether (MTBE)	42		"	50.0		83.5	74-131				
Methylene chloride	28		"	50.0		56.1	57-141	Low Bias			
Naphthalene	45		"	50.0		89.6	86-141				
n-Butylbenzene	41		"	50.0		82.5	80-130				
n-Propylbenzene	40		"	50.0		79.4	74-136				
o-Xylene	47		"	50.0		94.8	83-123				
p- & m- Xylenes	87		"	100		86.6	82-128				
sec-Butylbenzene	44		"	50.0		88.9	83-125				
tert-Butylbenzene	44		"	50.0		87.3	80-127				
Tetrachloroethylene	48		"	50.0		96.3	80-129				
Toluene	45		"	50.0		89.3	85-121				
trans-1,2-Dichloroethylene	40		"	50.0		80.3	72-132				
Trichloroethylene	49		"	50.0		98.1	84-123				
Vinyl Chloride	40		"	50.0		80.7	52-130				
Surrogate: SURRE: 1,2-Dichloroethane-d4	53.8		"	50.0		108	77-125				
Surrogate: SURRE: Toluene-d8	50.2		"	50.0		100	85-120				
Surrogate: SURRE: p-Bromofluorobenzene	51.5		"	50.0		103	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
Batch BK80974 - EPA 5035A											
LCS Dup (BK80974-BSD1)											
Prepared & Analyzed: 11/18/2018											
1,1,1-Trichloroethane	45		ug/L	50.0		89.9	71-137		8.42	30	
1,1-Dichloroethane	45		"	50.0		89.0	75-130		8.84	30	
1,1-Dichloroethylene	26		"	50.0		51.4	64-137	Low Bias	6.05	30	
1,2,4-Trimethylbenzene	43		"	50.0		85.3	84-125		6.66	30	
1,2-Dichlorobenzene	53		"	50.0		106	85-122		6.70	30	
1,2-Dichloroethane	49		"	50.0		98.5	71-133		5.32	30	
1,3,5-Trimethylbenzene	46		"	50.0		92.1	82-126		9.10	30	
1,3-Dichlorobenzene	47		"	50.0		94.9	84-124		6.91	30	
1,4-Dichlorobenzene	51		"	50.0		103	84-124		6.44	30	
1,4-Dioxane	1900		"	1050		180	10-228		20.4	30	
2-Butanone	42		"	50.0		84.9	58-147		11.6	30	
Acetone	20		"	50.0		41.0	36-155		9.34	30	
Benzene	45		"	50.0		89.8	77-127		6.79	30	
Carbon tetrachloride	45		"	50.0		90.0	66-143		7.42	30	
Chlorobenzene	51		"	50.0		101	86-120		7.23	30	
Chloroform	48		"	50.0		96.2	76-131		9.23	30	
cis-1,2-Dichloroethylene	45		"	50.0		89.1	74-132		7.86	30	
Ethyl Benzene	48		"	50.0		95.8	84-125		6.69	30	
Methyl tert-butyl ether (MTBE)	45		"	50.0		90.8	74-131		8.33	30	
Methylene chloride	30		"	50.0		61.0	57-141		8.37	30	
Naphthalene	49		"	50.0		97.5	86-141		8.44	30	
n-Butylbenzene	44		"	50.0		88.4	80-130		6.98	30	
n-Propylbenzene	43		"	50.0		86.2	74-136		8.17	30	
o-Xylene	50		"	50.0		101	83-123		6.22	30	
p- & m- Xylenes	92		"	100		91.6	82-128		5.68	30	
sec-Butylbenzene	48		"	50.0		95.7	83-125		7.41	30	
tert-Butylbenzene	47		"	50.0		94.9	80-127		8.34	30	
Tetrachloroethylene	52		"	50.0		104	80-129		7.63	30	
Toluene	49		"	50.0		97.9	85-121		9.23	30	
trans-1,2-Dichloroethylene	43		"	50.0		86.3	72-132		7.18	30	
Trichloroethylene	54		"	50.0		107	84-123		8.98	30	
Vinyl Chloride	41		"	50.0		81.5	52-130		0.987	30	
Surrogate: SURRE: 1,2-Dichloroethane-d4	54.8		"	50.0		110	77-125				
Surrogate: SURRE: Toluene-d8	51.9		"	50.0		104	85-120				
Surrogate: SURRE: p-Bromofluorobenzene	52.3		"	50.0		105	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 BK81146 - EPA 5035A

Blank (BK81146-BLK1)

Prepared & Analyzed: 11/20/2018

1,1,1-Trichloroethane	ND	5.0	ug/kg wet								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	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	"								
Acetone	ND	10	"								
Benzene	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroform	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylene chloride	ND	10	"								
Naphthalene	3.3	10	"								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
sec-Butylbenzene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
Surrogate: SURRE: 1,2-Dichloroethane-d4	47.7		ug/L	50.0		95.4	77-125				
Surrogate: SURRE: Toluene-d8	51.7		"	50.0		103	85-120				
Surrogate: SURRE: p-Bromofluorobenzene	51.9		"	50.0		104	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 BK81146 - EPA 5035A

LCS (BK81146-BS1)

Prepared & Analyzed: 11/20/2018

1,1,1-Trichloroethane	46		ug/L	50.0		92.7	71-137				
1,1-Dichloroethane	49		"	50.0		98.6	75-130				
1,1-Dichloroethylene	46		"	50.0		91.7	64-137				
1,2,4-Trimethylbenzene	48		"	50.0		95.6	84-125				
1,2-Dichlorobenzene	48		"	50.0		95.1	85-122				
1,2-Dichloroethane	48		"	50.0		96.0	71-133				
1,3,5-Trimethylbenzene	48		"	50.0		95.6	82-126				
1,3-Dichlorobenzene	48		"	50.0		96.1	84-124				
1,4-Dichlorobenzene	46		"	50.0		92.3	84-124				
1,4-Dioxane	2000		"	1050		194	10-228				
2-Butanone	46		"	50.0		91.9	58-147				
Acetone	37		"	50.0		74.4	36-155				
Benzene	51		"	50.0		103	77-127				
Carbon tetrachloride	46		"	50.0		91.5	66-143				
Chlorobenzene	51		"	50.0		102	86-120				
Chloroform	49		"	50.0		97.2	76-131				
cis-1,2-Dichloroethylene	48		"	50.0		95.8	74-132				
Ethyl Benzene	51		"	50.0		103	84-125				
Methyl tert-butyl ether (MTBE)	49		"	50.0		98.2	74-131				
Methylene chloride	46		"	50.0		92.5	57-141				
Naphthalene	40		"	50.0		80.3	86-141	Low Bias			
n-Butylbenzene	48		"	50.0		95.4	80-130				
n-Propylbenzene	49		"	50.0		97.6	74-136				
o-Xylene	52		"	50.0		103	83-123				
p- & m- Xylenes	100		"	100		101	82-128				
sec-Butylbenzene	46		"	50.0		92.8	83-125				
tert-Butylbenzene	39		"	50.0		77.8	80-127	Low Bias			
Tetrachloroethylene	42		"	50.0		84.8	80-129				
Toluene	50		"	50.0		99.6	85-121				
trans-1,2-Dichloroethylene	49		"	50.0		98.2	72-132				
Trichloroethylene	51		"	50.0		102	84-123				
Vinyl Chloride	47		"	50.0		94.2	52-130				
Surrogate: SURRE: 1,2-Dichloroethane-d4	46.1		"	50.0		92.1	77-125				
Surrogate: SURRE: Toluene-d8	51.9		"	50.0		104	85-120				
Surrogate: SURRE: p-Bromofluorobenzene	47.8		"	50.0		95.6	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 BK81146 - EPA 5035A

LCS Dup (BK81146-BSD1)

Prepared & Analyzed: 11/20/2018

1,1,1-Trichloroethane	47		ug/L	50.0		94.8	71-137		2.26	30	
1,1-Dichloroethane	50		"	50.0		101	75-130		2.09	30	
1,1-Dichloroethylene	47		"	50.0		94.2	64-137		2.65	30	
1,2,4-Trimethylbenzene	51		"	50.0		102	84-125		6.85	30	
1,2-Dichlorobenzene	48		"	50.0		96.2	85-122		1.19	30	
1,2-Dichloroethane	47		"	50.0		93.0	71-133		3.11	30	
1,3,5-Trimethylbenzene	51		"	50.0		102	82-126		6.85	30	
1,3-Dichlorobenzene	51		"	50.0		102	84-124		5.57	30	
1,4-Dichlorobenzene	50		"	50.0		99.2	84-124		7.14	30	
1,4-Dioxane	1900		"	1050		185	10-228		4.73	30	
2-Butanone	50		"	50.0		99.9	58-147		8.30	30	
Acetone	38		"	50.0		76.9	36-155		3.22	30	
Benzene	53		"	50.0		106	77-127		3.03	30	
Carbon tetrachloride	48		"	50.0		96.9	66-143		5.78	30	
Chlorobenzene	51		"	50.0		102	86-120		0.608	30	
Chloroform	49		"	50.0		98.5	76-131		1.37	30	
cis-1,2-Dichloroethylene	50		"	50.0		101	74-132		5.07	30	
Ethyl Benzene	52		"	50.0		104	84-125		1.39	30	
Methyl tert-butyl ether (MTBE)	50		"	50.0		101	74-131		2.35	30	
Methylene chloride	47		"	50.0		94.5	57-141		2.16	30	
Naphthalene	42		"	50.0		84.7	86-141	Low Bias	5.29	30	
n-Butylbenzene	52		"	50.0		103	80-130		7.97	30	
n-Propylbenzene	53		"	50.0		106	74-136		8.61	30	
o-Xylene	51		"	50.0		101	83-123		1.88	30	
p- & m- Xylenes	100		"	100		100	82-128		0.299	30	
sec-Butylbenzene	50		"	50.0		101	83-125		8.16	30	
tert-Butylbenzene	41		"	50.0		81.9	80-127		5.21	30	
Tetrachloroethylene	42		"	50.0		84.9	80-129		0.118	30	
Toluene	52		"	50.0		103	85-121		3.74	30	
trans-1,2-Dichloroethylene	50		"	50.0		99.4	72-132		1.15	30	
Trichloroethylene	53		"	50.0		106	84-123		4.09	30	
Vinyl Chloride	46		"	50.0		91.6	52-130		2.78	30	
Surrogate: SURRE: 1,2-Dichloroethane-d4	44.0		"	50.0		87.9	77-125				
Surrogate: SURRE: Toluene-d8	50.6		"	50.0		101	85-120				
Surrogate: SURRE: p-Bromofluorobenzene	48.2		"	50.0		96.3	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit								RPD	

Batch BK81199 - EPA 5035A

Blank (BK81199-BLK1)

Prepared & Analyzed: 11/26/2018

1,1,1-Trichloroethane	ND	5.0	ug/kg wet								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	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	"								
Acetone	ND	10	"								
Benzene	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroform	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylene chloride	ND	10	"								
Naphthalene	2.6	10	"								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
sec-Butylbenzene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	52.4		ug/L	50.0		105		77-125			
<i>Surrogate: SURR: Toluene-d8</i>	53.4		"	50.0		107		85-120			
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	57.0		"	50.0		114		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 BK81199 - EPA 5035A

LCS (BK81199-BS1)

Prepared & Analyzed: 11/26/2018

1,1,1-Trichloroethane	47		ug/L	50.0		93.1	71-137				
1,1-Dichloroethane	45		"	50.0		90.9	75-130				
1,1-Dichloroethylene	25		"	50.0		50.8	64-137	Low Bias			
1,2,4-Trimethylbenzene	46		"	50.0		92.3	84-125				
1,2-Dichlorobenzene	54		"	50.0		109	85-122				
1,2-Dichloroethane	49		"	50.0		98.5	71-133				
1,3,5-Trimethylbenzene	49		"	50.0		98.7	82-126				
1,3-Dichlorobenzene	51		"	50.0		102	84-124				
1,4-Dichlorobenzene	55		"	50.0		110	84-124				
1,4-Dioxane	1800		"	1050		167	10-228				
2-Butanone	44		"	50.0		88.7	58-147				
Acetone	20		"	50.0		40.5	36-155				
Benzene	45		"	50.0		89.8	77-127				
Carbon tetrachloride	49		"	50.0		97.2	66-143				
Chlorobenzene	55		"	50.0		109	86-120				
Chloroform	48		"	50.0		95.2	76-131				
cis-1,2-Dichloroethylene	45		"	50.0		91.0	74-132				
Ethyl Benzene	51		"	50.0		103	84-125				
Methyl tert-butyl ether (MTBE)	46		"	50.0		92.6	74-131				
Methylene chloride	27		"	50.0		54.1	57-141	Low Bias			
Naphthalene	51		"	50.0		102	86-141				
n-Butylbenzene	49		"	50.0		98.7	80-130				
n-Propylbenzene	47		"	50.0		93.8	74-136				
o-Xylene	54		"	50.0		107	83-123				
p- & m- Xylenes	99		"	100		98.8	82-128				
sec-Butylbenzene	52		"	50.0		103	83-125				
tert-Butylbenzene	52		"	50.0		103	80-127				
Tetrachloroethylene	59		"	50.0		117	80-129				
Toluene	53		"	50.0		107	85-121				
trans-1,2-Dichloroethylene	45		"	50.0		90.7	72-132				
Trichloroethylene	57		"	50.0		114	84-123				
Vinyl Chloride	47		"	50.0		93.9	52-130				
Surrogate: SURRE: 1,2-Dichloroethane-d4	53.8		"	50.0		108	77-125				
Surrogate: SURRE: Toluene-d8	53.7		"	50.0		107	85-120				
Surrogate: SURRE: p-Bromofluorobenzene	52.6		"	50.0		105	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
Batch BK81199 - EPA 5035A											
LCS Dup (BK81199-BSD1)											
Prepared & Analyzed: 11/26/2018											
1,1,1-Trichloroethane	44		ug/L	50.0		87.3	71-137		6.45	30	
1,1-Dichloroethane	43		"	50.0		86.2	75-130		5.37	30	
1,1-Dichloroethylene	24		"	50.0		47.9	64-137	Low Bias	5.83	30	
1,2,4-Trimethylbenzene	44		"	50.0		88.1	84-125		4.70	30	
1,2-Dichlorobenzene	53		"	50.0		106	85-122		2.38	30	
1,2-Dichloroethane	47		"	50.0		93.9	71-133		4.76	30	
1,3,5-Trimethylbenzene	47		"	50.0		94.4	82-126		4.45	30	
1,3-Dichlorobenzene	49		"	50.0		97.6	84-124		4.16	30	
1,4-Dichlorobenzene	53		"	50.0		107	84-124		2.86	30	
1,4-Dioxane	1800		"	1050		171	10-228		2.02	30	
2-Butanone	41		"	50.0		82.1	58-147		7.75	30	
Acetone	20		"	50.0		40.9	36-155		0.836	30	
Benzene	43		"	50.0		85.9	77-127		4.42	30	
Carbon tetrachloride	46		"	50.0		91.0	66-143		6.54	30	
Chlorobenzene	51		"	50.0		102	86-120		6.22	30	
Chloroform	45		"	50.0		90.1	76-131		5.46	30	
cis-1,2-Dichloroethylene	43		"	50.0		85.6	74-132		6.07	30	
Ethyl Benzene	48		"	50.0		95.3	84-125		7.56	30	
Methyl tert-butyl ether (MTBE)	45		"	50.0		89.1	74-131		3.85	30	
Methylene chloride	27		"	50.0		53.3	57-141	Low Bias	1.41	30	
Naphthalene	50		"	50.0		100	86-141		2.11	30	
n-Butylbenzene	47		"	50.0		93.6	80-130		5.34	30	
n-Propylbenzene	44		"	50.0		88.7	74-136		5.50	30	
o-Xylene	50		"	50.0		101	83-123		6.29	30	
p- & m- Xylenes	93		"	100		92.7	82-128		6.45	30	
sec-Butylbenzene	49		"	50.0		98.4	83-125		4.80	30	
tert-Butylbenzene	49		"	50.0		98.9	80-127		4.10	30	
Tetrachloroethylene	54		"	50.0		108	80-129		7.63	30	
Toluene	50		"	50.0		100	85-121		6.62	30	
trans-1,2-Dichloroethylene	43		"	50.0		86.1	72-132		5.18	30	
Trichloroethylene	53		"	50.0		106	84-123		7.50	30	
Vinyl Chloride	44		"	50.0		87.6	52-130		7.01	30	
Surrogate: SURRE: 1,2-Dichloroethane-d4	53.2		"	50.0		106	77-125				
Surrogate: SURRE: Toluene-d8	52.5		"	50.0		105	85-120				
Surrogate: SURRE: p-Bromofluorobenzene	53.2		"	50.0		106	76-130				



Semivolatile 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 BK81216 - EPA 3550C

Blank (BK81216-BLK1)

Prepared & Analyzed: 11/26/2018

2-Methylphenol	ND	41.7	ug/kg wet								
3- & 4-Methylphenols	ND	41.7	"								
Acenaphthene	ND	41.7	"								
Acenaphthylene	ND	41.7	"								
Anthracene	ND	41.7	"								
Benzo(a)anthracene	ND	41.7	"								
Benzo(a)pyrene	ND	41.7	"								
Benzo(b)fluoranthene	ND	41.7	"								
Benzo(g,h,i)perylene	ND	41.7	"								
Benzo(k)fluoranthene	ND	41.7	"								
Chrysene	ND	41.7	"								
Dibenzo(a,h)anthracene	ND	41.7	"								
Dibenzofuran	ND	41.7	"								
Fluoranthene	ND	41.7	"								
Fluorene	ND	41.7	"								
Hexachlorobenzene	ND	41.7	"								
Indeno(1,2,3-cd)pyrene	ND	41.7	"								
Naphthalene	ND	41.7	"								
Pentachlorophenol	ND	41.7	"								
Phenanthrene	ND	41.7	"								
Phenol	ND	41.7	"								
Pyrene	ND	41.7	"								
Surrogate: SURR: 2-Fluorophenol	1250		"	1670		75.1	20-108				
Surrogate: SURR: Phenol-d5	1240		"	1670		74.3	23-114				
Surrogate: SURR: Nitrobenzene-d5	461		"	833		55.3	22-108				
Surrogate: SURR: 2-Fluorobiphenyl	612		"	833		73.4	21-113				
Surrogate: SURR: 2,4,6-Tribromophenol	1010		"	1670		60.5	19-110				
Surrogate: SURR: Terphenyl-d14	713		"	833		85.6	24-116				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit	Units							Level	Result

Batch BK81216 - EPA 3550C

LCS (BK81216-BS1)

Prepared & Analyzed: 11/26/2018

2-Methylphenol	688	41.7	ug/kg wet	833		82.6	10-146				
3- & 4-Methylphenols	659	41.7	"	833		79.1	20-109				
Acenaphthene	621	41.7	"	833		74.6	17-124				
Acenaphthylene	659	41.7	"	833		79.1	16-124				
Anthracene	616	41.7	"	833		73.9	24-124				
Benzo(a)anthracene	746	41.7	"	833		89.5	25-134				
Benzo(a)pyrene	733	41.7	"	833		88.0	29-144				
Benzo(b)fluoranthene	719	41.7	"	833		86.2	20-151				
Benzo(g,h,i)perylene	698	41.7	"	833		83.8	10-153				
Benzo(k)fluoranthene	701	41.7	"	833		84.2	10-148				
Chrysene	715	41.7	"	833		85.8	24-116				
Dibenzo(a,h)anthracene	696	41.7	"	833		83.5	17-147				
Dibenzofuran	686	41.7	"	833		82.3	23-123				
Fluoranthene	596	41.7	"	833		71.5	36-125				
Fluorene	641	41.7	"	833		76.9	16-130				
Hexachlorobenzene	497	41.7	"	833		59.6	10-129				
Indeno(1,2,3-cd)pyrene	743	41.7	"	833		89.2	10-155				
Naphthalene	604	41.7	"	833		72.5	20-121				
Pentachlorophenol	524	41.7	"	833		62.9	10-143				
Phenanthrene	632	41.7	"	833		75.8	24-123				
Phenol	714	41.7	"	833		85.7	15-123				
Pyrene	727	41.7	"	833		87.2	24-132				
Surrogate: SURR: 2-Fluorophenol	1250		"	1670		74.7	20-108				
Surrogate: SURR: Phenol-d5	1230		"	1670		73.7	23-114				
Surrogate: SURR: Nitrobenzene-d5	490		"	833		58.8	22-108				
Surrogate: SURR: 2-Fluorobiphenyl	605		"	833		72.6	21-113				
Surrogate: SURR: 2,4,6-Tribromophenol	1090		"	1670		65.6	19-110				
Surrogate: SURR: Terphenyl-d14	713		"	833		85.6	24-116				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

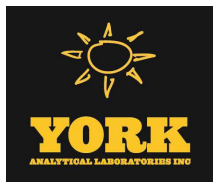
Analyte	Result	Reporting		Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit	Units							Level	Result

Batch BK81282 - EPA 3550C

Blank (BK81282-BLK1)

Prepared: 11/26/2018 Analyzed: 11/27/2018

2-Methylphenol	ND	41.7	ug/kg wet								
3- & 4-Methylphenols	ND	41.7	"								
Acenaphthene	ND	41.7	"								
Acenaphthylene	ND	41.7	"								
Anthracene	ND	41.7	"								
Benzo(a)anthracene	ND	41.7	"								
Benzo(a)pyrene	ND	41.7	"								
Benzo(b)fluoranthene	ND	41.7	"								
Benzo(g,h,i)perylene	ND	41.7	"								
Benzo(k)fluoranthene	ND	41.7	"								
Chrysene	ND	41.7	"								
Dibenzo(a,h)anthracene	ND	41.7	"								
Dibenzofuran	ND	41.7	"								
Fluoranthene	ND	41.7	"								
Fluorene	ND	41.7	"								
Hexachlorobenzene	ND	41.7	"								
Indeno(1,2,3-cd)pyrene	ND	41.7	"								
Naphthalene	ND	41.7	"								
Pentachlorophenol	ND	41.7	"								
Phenanthrene	ND	41.7	"								
Phenol	ND	41.7	"								
Pyrene	ND	41.7	"								
Surrogate: SURR: 2-Fluorophenol	1000		"	1670		60.1		20-108			
Surrogate: SURR: Phenol-d5	904		"	1670		54.2		23-114			
Surrogate: SURR: Nitrobenzene-d5	433		"	833		51.9		22-108			
Surrogate: SURR: 2-Fluorobiphenyl	545		"	833		65.4		21-113			
Surrogate: SURR: 2,4,6-Tribromophenol	1590		"	1670		95.6		19-110			
Surrogate: SURR: Terphenyl-d14	723		"	833		86.7		24-116			



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

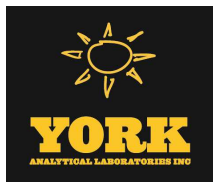
Analyte	Result	Reporting		Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit	Units							Level	Result

Batch BK81282 - EPA 3550C

LCS (BK81282-BS1)

Prepared: 11/26/2018 Analyzed: 11/27/2018

2-Methylphenol	446	41.7	ug/kg wet	833		53.5	10-146				
3- & 4-Methylphenols	398	41.7	"	833		47.8	20-109				
Acenaphthene	489	41.7	"	833		58.7	17-124				
Acenaphthylene	496	41.7	"	833		59.5	16-124				
Anthracene	548	41.7	"	833		65.8	24-124				
Benzo(a)anthracene	578	41.7	"	833		69.4	25-134				
Benzo(a)pyrene	664	41.7	"	833		79.6	29-144				
Benzo(b)fluoranthene	652	41.7	"	833		78.2	20-151				
Benzo(g,h,i)perylene	608	41.7	"	833		72.9	10-153				
Benzo(k)fluoranthene	576	41.7	"	833		69.1	10-148				
Chrysene	553	41.7	"	833		66.3	24-116				
Dibenzo(a,h)anthracene	617	41.7	"	833		74.0	17-147				
Dibenzofuran	487	41.7	"	833		58.4	23-123				
Fluoranthene	561	41.7	"	833		67.3	36-125				
Fluorene	528	41.7	"	833		63.4	16-130				
Hexachlorobenzene	420	41.7	"	833		50.4	10-129				
Indeno(1,2,3-cd)pyrene	597	41.7	"	833		71.7	10-155				
Naphthalene	527	41.7	"	833		63.2	20-121				
Pentachlorophenol	90.3	41.7	"	833		10.8	10-143				
Phenanthrene	546	41.7	"	833		65.6	24-123				
Phenol	445	41.7	"	833		53.4	15-123				
Pyrene	550	41.7	"	833		66.0	24-132				
Surrogate: SURR: 2-Fluorophenol	880		"	1670		52.8	20-108				
Surrogate: SURR: Phenol-d5	777		"	1670		46.6	23-114				
Surrogate: SURR: Nitrobenzene-d5	369		"	833		44.3	22-108				
Surrogate: SURR: 2-Fluorobiphenyl	476		"	833		57.1	21-113				
Surrogate: SURR: 2,4,6-Tribromophenol	1410		"	1670		84.4	19-110				
Surrogate: SURR: Terphenyl-d14	628		"	833		75.4	24-116				



Organochlorine Pesticides by GC/ECD - 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 BK81215 - EPA 3550C

Blank (BK81215-BLK1)

Prepared: 11/26/2018 Analyzed: 11/27/2018

4,4'-DDD	ND	0.330	ug/kg wet								
4,4'-DDE	ND	0.330	"								
4,4'-DDT	ND	0.330	"								
Aldrin	ND	0.330	"								
alpha-BHC	ND	0.330	"								
alpha-Chlordane	ND	0.330	"								
beta-BHC	ND	0.330	"								
delta-BHC	ND	0.330	"								
Dieldrin	ND	0.330	"								
Endosulfan I	ND	0.330	"								
Endosulfan II	ND	0.330	"								
Endosulfan sulfate	ND	0.330	"								
Endrin	ND	0.330	"								
gamma-BHC (Lindane)	ND	0.330	"								
Heptachlor	ND	0.330	"								
<i>Surrogate: Decachlorobiphenyl</i>	49.7		"	67.0		74.1	30-150				
<i>Surrogate: Tetrachloro-m-xylene</i>	56.3		"	67.3		83.6	30-150				

LCS (BK81215-BS1)

Prepared: 11/26/2018 Analyzed: 11/27/2018

4,4'-DDD	29.1	0.330	ug/kg wet	33.3		87.3	40-140				
4,4'-DDE	26.8	0.330	"	33.3		80.3	40-140				
4,4'-DDT	29.3	0.330	"	33.3		88.0	40-140				
Aldrin	28.3	0.330	"	33.3		84.8	40-140				
alpha-BHC	29.2	0.330	"	33.3		87.7	40-140				
alpha-Chlordane	25.3	0.330	"	33.3		75.9	40-140				
beta-BHC	28.0	0.330	"	33.3		84.1	40-140				
delta-BHC	29.1	0.330	"	33.3		87.2	40-140				
Dieldrin	27.3	0.330	"	33.3		81.8	40-140				
Endosulfan I	27.1	0.330	"	33.3		81.4	40-140				
Endosulfan II	27.1	0.330	"	33.3		81.3	40-140				
Endosulfan sulfate	27.4	0.330	"	33.3		82.1	40-140				
Endrin	27.5	0.330	"	33.3		82.6	40-140				
gamma-BHC (Lindane)	28.1	0.330	"	33.3		84.4	40-140				
Heptachlor	26.6	0.330	"	33.3		79.8	40-140				
<i>Surrogate: Decachlorobiphenyl</i>	53.7		"	67.0		80.1	30-150				
<i>Surrogate: Tetrachloro-m-xylene</i>	60.1		"	67.3		89.2	30-150				



Organochlorine Pesticides by GC/ECD - Quality Control Data

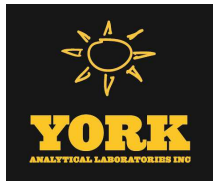
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BK81215 - EPA 3550C

Matrix Spike (BK81215-MS1)	*Source sample: 18K0636-13 (SB-75A)						Prepared: 11/26/2018 Analyzed: 11/27/2018				
4,4'-DDD	27.3	1.65	ug/kg dry	35.3	ND	77.3	30-150				
4,4'-DDE	19.1	1.65	"	35.3	ND	54.2	30-150				
4,4'-DDT	24.5	1.65	"	35.3	7.85	47.3	30-150				
Aldrin	20.8	1.65	"	35.3	ND	58.8	30-150				
alpha-BHC	21.3	1.65	"	35.3	ND	60.3	30-150				
alpha-Chlordane	22.4	1.65	"	35.3	ND	63.4	30-150				
beta-BHC	19.5	1.65	"	35.3	ND	55.1	30-150				
delta-BHC	17.5	1.65	"	35.3	ND	49.7	30-150				
Dieldrin	23.1	1.65	"	35.3	ND	65.2	30-150				
Endosulfan I	25.8	1.65	"	35.3	ND	72.9	30-150				
Endosulfan II	20.9	1.65	"	35.3	ND	59.1	30-150				
Endosulfan sulfate	18.8	1.65	"	35.3	ND	53.1	30-150				
Endrin	21.6	1.65	"	35.3	ND	61.1	30-150				
gamma-BHC (Lindane)	22.7	1.65	"	35.3	ND	64.4	30-150				
Heptachlor	19.9	1.65	"	35.3	ND	56.3	30-150				
<i>Surrogate: Decachlorobiphenyl</i>	<i>48.2</i>		<i>"</i>	<i>71.0</i>		<i>67.8</i>	<i>30-150</i>				
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>44.9</i>		<i>"</i>	<i>71.4</i>		<i>62.8</i>	<i>30-150</i>				

Matrix Spike Dup (BK81215-MSD1)	*Source sample: 18K0636-13 (SB-75A)						Prepared: 11/26/2018 Analyzed: 11/27/2018				
4,4'-DDD	21.3	1.65	ug/kg dry	35.3	ND	60.2	30-150	24.9	30		
4,4'-DDE	14.7	1.65	"	35.3	ND	41.6	30-150	26.3	30		
4,4'-DDT	21.8	1.65	"	35.3	7.85	39.4	30-150	12.0	30		
Aldrin	18.4	1.65	"	35.3	ND	52.2	30-150	12.0	30		
alpha-BHC	17.9	1.65	"	35.3	ND	50.5	30-150	17.6	30		
alpha-Chlordane	19.4	1.65	"	35.3	ND	54.9	30-150	14.4	30		
beta-BHC	16.6	1.65	"	35.3	ND	47.1	30-150	15.8	30		
delta-BHC	14.6	1.65	"	35.3	ND	41.4	30-150	18.2	30		
Dieldrin	18.7	1.65	"	35.3	ND	52.9	30-150	20.8	30		
Endosulfan I	24.7	1.65	"	35.3	ND	69.9	30-150	4.26	30		
Endosulfan II	15.7	1.65	"	35.3	ND	44.4	30-150	28.4	30		
Endosulfan sulfate	13.1	1.65	"	35.3	ND	37.0	30-150	35.7	30		Non-dir.
Endrin	18.6	1.65	"	35.3	ND	52.7	30-150	14.8	30		
gamma-BHC (Lindane)	19.5	1.65	"	35.3	ND	55.0	30-150	15.6	30		
Heptachlor	17.7	1.65	"	35.3	ND	50.2	30-150	11.5	30		
<i>Surrogate: Decachlorobiphenyl</i>	<i>50.1</i>		<i>"</i>	<i>71.0</i>		<i>70.6</i>	<i>30-150</i>				
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>45.7</i>		<i>"</i>	<i>71.4</i>		<i>64.0</i>	<i>30-150</i>				



Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

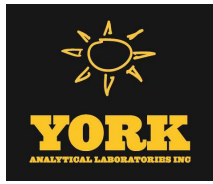
Analyte	Result	Reporting	Units	Spike	Source*	%REC	Flag	RPD	RPD	Limit	Flag
		Limit		Level	Result	Limits		Limit			

Batch Y8K2715 - BK81228

Performance Mix (Y8K2715-PEM2)

Prepared: 11/26/2018 Analyzed: 11/27/2018

4,4'-DDD	0.00		ng/mL	0.00				0-200			
4,4'-DDE	1.74		"	0.00				0-200			
4,4'-DDT	216		"	200		108		0-200			
Endrin	118		"	100		118		0-200			



Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit								Limit			

Batch BK81215 - EPA 3550C

Blank (BK81215-BLK2)

Prepared & Analyzed: 11/26/2018

Aroclor 1016	ND	0.0167	mg/kg wet										
Aroclor 1221	ND	0.0167	"										
Aroclor 1232	ND	0.0167	"										
Aroclor 1242	ND	0.0167	"										
Aroclor 1248	ND	0.0167	"										
Aroclor 1254	ND	0.0167	"										
Aroclor 1260	ND	0.0167	"										
Total PCBs	ND	0.0167	"										

<i>Surrogate: Tetrachloro-m-xylene</i>	0.0710		"	0.0673		105	30-140						
<i>Surrogate: Decachlorobiphenyl</i>	0.0517		"	0.0670		77.1	30-140						

LCS (BK81215-BS2)

Prepared & Analyzed: 11/26/2018

Aroclor 1016	0.248	0.0167	mg/kg wet	0.333		74.5	40-130						
Aroclor 1260	0.258	0.0167	"	0.333		77.5	40-130						
<i>Surrogate: Tetrachloro-m-xylene</i>	0.0567		"	0.0673		84.2	30-140						
<i>Surrogate: Decachlorobiphenyl</i>	0.0397		"	0.0670		59.2	30-140						



Metals by ICP - 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 BK80911 - EPA 3050B

Blank (BK80911-BLK1)

Prepared: 11/16/2018 Analyzed: 11/19/2018

Aluminum	ND	5.00	mg/kg wet								
Antimony	ND	2.50	"								
Arsenic	ND	1.50	"								
Barium	ND	2.50	"								
Beryllium	ND	0.050	"								
Cadmium	ND	0.300	"								
Calcium	ND	5.00	"								
Chromium	ND	0.500	"								
Cobalt	ND	0.400	"								
Copper	ND	2.00	"								
Iron	ND	25.0	"								
Lead	ND	0.500	"								
Magnesium	ND	5.00	"								
Manganese	ND	0.500	"								
Nickel	ND	1.00	"								
Potassium	6.31	5.00	"								
Selenium	ND	2.50	"								
Silver	ND	0.500	"								
Sodium	ND	50.0	"								
Thallium	ND	2.50	"								
Vanadium	ND	1.00	"								
Zinc	ND	2.50	"								

Duplicate (BK80911-DUP1)

*Source sample: 18K0636-19 (SB-77C)

Prepared: 11/16/2018 Analyzed: 11/26/2018

Aluminum	7500	5.31	mg/kg dry		5700				27.3	35	
Antimony	ND	2.66	"		ND					35	
Arsenic	1.75	1.59	"		ND					35	
Barium	50.5	2.66	"		50.6				0.229	35	
Beryllium	ND	0.053	"		0.055					35	
Cadmium	ND	0.319	"		ND					35	
Calcium	4940	5.31	"		1110				127	35	Non-dir.
Chromium	15.0	0.531	"		9.96				40.5	35	Non-dir.
Cobalt	5.95	0.425	"		5.43				9.07	35	
Copper	27.1	2.12	"		13.2				69.0	35	Non-dir.
Iron	11500	26.6	"		10100				13.5	35	
Lead	71.5	0.531	"		8.95				155	35	Non-dir.
Magnesium	2590	5.31	"		1770				37.6	35	Non-dir.
Manganese	194	0.531	"		157				20.8	35	
Nickel	18.4	1.06	"		11.1				49.2	35	Non-dir.
Potassium	616	5.31	"		1110				57.6	35	Non-dir.
Selenium	ND	2.66	"		ND					35	
Silver	ND	0.531	"		ND					35	
Sodium	438	53.1	"		331				27.9	35	
Thallium	ND	2.66	"		ND					35	
Vanadium	21.0	1.06	"		15.0				33.0	35	
Zinc	72.8	2.66	"		22.8				105	35	Non-dir.



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit								Level	Result

Batch BK80911 - EPA 3050B

Matrix Spike (BK80911-MS1)	*Source sample: 18K0636-19 (SB-77C)						Prepared: 11/16/2018 Analyzed: 11/26/2018				
Aluminum	8390	5.31	mg/kg dry	212	5700	NR	75-125	High Bias			
Antimony	15.4	2.66	"	26.6	ND	58.1	75-125	Low Bias			
Arsenic	221	1.59	"	212	ND	104	75-125				
Barium	296	2.66	"	212	50.6	115	75-125				
Beryllium	5.84	0.053	"	5.31	0.055	109	75-125				
Cadmium	5.95	0.319	"	5.31	ND	112	75-125				
Chromium	63.1	0.531	"	21.2	9.96	250	75-125	High Bias			
Cobalt	66.2	0.425	"	53.1	5.43	114	75-125				
Copper	64.0	2.12	"	26.6	13.2	191	75-125	High Bias			
Iron	13400	26.6	"	106	10100	NR	75-125	High Bias			
Lead	144	0.531	"	53.1	8.95	255	75-125	High Bias			
Magnesium	2610	5.31	"	106	1770	793	75-125	High Bias			
Manganese	267	0.531	"	53.1	157	206	75-125	High Bias			
Nickel	88.5	1.06	"	53.1	11.1	146	75-125	High Bias			
Potassium	719	5.31	"	106	1110	NR	75-125	Low Bias			
Selenium	194	2.66	"	212	ND	91.3	75-125				
Silver	4.71	0.531	"	5.31	ND	88.7	75-125				
Sodium	502	53.1	"	106	331	162	75-125	High Bias			
Thallium	235	2.66	"	212	ND	111	75-125				
Vanadium	78.9	1.06	"	53.1	15.0	120	75-125				
Zinc	149	2.66	"	53.1	22.8	237	75-125	High Bias			

Reference (BK80911-SRM1)	Prepared: 11/16/2018 Analyzed: 11/19/2018					
Aluminum	7260	5.00	mg/kg wet	8360	86.8	39.4-160.5
Antimony	67.5	2.50	"	75.5	89.3	25.1-275.7
Arsenic	137	1.50	"	161	85.3	69.9-132.9
Barium	217	2.50	"	260	83.4	71.5-136.3
Beryllium	84.5	0.050	"	97.6	86.6	75.4-138.1
Cadmium	181	0.300	"	211	85.7	73.3-141.5
Calcium	4060	5.00	"	4760	85.4	73.7-136.1
Chromium	117	0.500	"	136	86.0	69.1-143.3
Cobalt	45.2	0.400	"	48.2	93.8	74.6-142
Copper	149	2.00	"	166	90.0	72.7-141.6
Iron	11200	25.0	"	14100	79.2	35.6-163.9
Lead	99.0	0.500	"	111	89.2	70.8-137.1
Magnesium	2060	5.00	"	2340	88.1	63.6-136.1
Manganese	204	0.500	"	228	89.4	75.7-134.3
Nickel	92.2	1.00	"	91.9	100	70.7-146.3
Potassium	1840	5.00	"	2020	91.1	59.8-140.2
Selenium	143	2.50	"	191	74.8	67.1-136.8
Silver	36.0	0.500	"	43.3	83.2	66.5-139.5
Sodium	223	50.0	"	218	102	40.6-159.8
Thallium	130	2.50	"	156	83.4	68-136.2
Vanadium	45.2	1.00	"	56.7	79.7	58.9-141.8
Zinc	172	2.50	"	199	86.5	69.5-131.1



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Flag	RPD	RPD	
		Limit								Limit	Flag

Batch BK81086 - EPA 3050B

Blank (BK81086-BLK1)

Prepared & Analyzed: 11/20/2018

Aluminum	ND	5.00	mg/kg wet								
Antimony	ND	2.50	"								
Arsenic	ND	1.50	"								
Barium	ND	2.50	"								
Beryllium	ND	0.050	"								
Cadmium	ND	0.300	"								
Calcium	ND	5.00	"								
Chromium	ND	0.500	"								
Cobalt	ND	0.400	"								
Copper	ND	2.00	"								
Iron	ND	25.0	"								
Lead	ND	0.500	"								
Magnesium	ND	5.00	"								
Manganese	ND	0.500	"								
Nickel	ND	1.00	"								
Potassium	ND	5.00	"								
Selenium	ND	2.50	"								
Silver	ND	0.500	"								
Sodium	ND	50.0	"								
Thallium	ND	2.50	"								
Vanadium	ND	1.00	"								
Zinc	ND	2.50	"								

Reference (BK81086-SRM1)

Prepared & Analyzed: 11/20/2018

Aluminum	7120	5.00	mg/kg wet	8360	85.2	39.4-160.5
Antimony	66.2	2.50	"	75.5	87.7	25.1-275.7
Arsenic	155	1.50	"	161	96.0	69.9-132.9
Barium	246	2.50	"	260	94.4	71.5-136.3
Beryllium	99.3	0.050	"	97.6	102	75.4-138.1
Cadmium	206	0.300	"	211	97.5	73.3-141.5
Calcium	4970	5.00	"	4760	104	73.7-136.1
Chromium	133	0.500	"	136	97.6	69.1-143.3
Cobalt	50.8	0.400	"	48.2	105	74.6-142
Copper	180	2.00	"	166	109	72.7-141.6
Iron	10700	25.0	"	14100	76.1	35.6-163.9
Lead	105	0.500	"	111	94.8	70.8-137.1
Magnesium	2120	5.00	"	2340	90.4	63.6-136.1
Manganese	218	0.500	"	228	95.5	75.7-134.3
Nickel	105	1.00	"	91.9	115	70.7-146.3
Potassium	1910	5.00	"	2020	94.4	59.8-140.2
Selenium	162	2.50	"	191	84.9	67.1-136.8
Silver	43.0	0.500	"	43.3	99.4	66.5-139.5
Sodium	261	50.0	"	218	120	40.6-159.8
Thallium	152	2.50	"	156	97.4	68-136.2
Vanadium	48.2	1.00	"	56.7	85.1	58.9-141.8
Zinc	193	2.50	"	199	97.1	69.5-131.1



Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK80952 - EPA 7473 soil											
Blank (BK80952-BLK1)										Prepared & Analyzed: 11/16/2018	
Mercury	ND	0.0300	mg/kg wet								
Reference (BK80952-SRM1)										Prepared & Analyzed: 11/16/2018	
Mercury	9.1442		mg/kg	13.8		66.3	57.1-143.5				
Batch BK81155 - EPA 7473 soil											
Blank (BK81155-BLK1)										Prepared & Analyzed: 11/21/2018	
Mercury	ND	0.0300	mg/kg wet								
Reference (BK81155-SRM1)										Prepared & Analyzed: 11/21/2018	
Mercury	13.313		mg/kg	13.8		96.5	57.1-143.5				



Miscellaneous Physical Parameters - 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 BK81253 - % Solids Prep

Duplicate (BK81253-DUP1)	*Source sample: 18K0636-01 (SB-70A)						Prepared & Analyzed: 11/26/2018				
% Solids	93.7	0.100	%		93.1				0.615	20	



Wet Chemistry Parameters - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK81229 - Analysis Preparation Soil											
Blank (BK81229-BLK1)										Prepared & Analyzed: 11/26/2018	
Cyanide, total	ND	0.500	mg/kg wet								
LCS (BK81229-BS1)										Prepared & Analyzed: 11/26/2018	
Cyanide, total	44.4		ug/mL	41.4		107	72.9-112				
Batch BK81232 - EPA SW846-3060											
Blank (BK81232-BLK1)										Prepared & Analyzed: 11/26/2018	
Chromium, Hexavalent	ND	0.500	mg/kg wet								
Reference (BK81232-SRM1)										Prepared & Analyzed: 11/26/2018	
Chromium, Hexavalent	37.8		mg/L	76.9		49.1	20.3-212				
Batch BK81234 - EPA SW846-3060											
Blank (BK81234-BLK2)										Prepared & Analyzed: 11/26/2018	
Chromium, Hexavalent	ND	0.500	mg/kg wet								
Reference (BK81234-SRM2)										Prepared & Analyzed: 11/26/2018	
Chromium, Hexavalent	49.3		mg/L	76.9		64.1	20.3-212				
Batch BK81317 - Analysis Preparation Soil											
Blank (BK81317-BLK1)										Prepared & Analyzed: 11/27/2018	
Cyanide, total	ND	0.500	mg/kg wet								



Wet Chemistry Parameters - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK81317 - Analysis Preparation Soil											
Reference (BK81317-SRM1)						Prepared & Analyzed: 11/27/2018					
Cyanide, total	48.4		ug/mL	41.4		117	34.3-167				
Batch BK81325 - Analysis Preparation Soil											
Blank (BK81325-BLK1)						Prepared & Analyzed: 11/27/2018					
Cyanide, total	ND	0.500	mg/kg wet								
Reference (BK81325-SRM1)						Prepared & Analyzed: 11/27/2018					
Cyanide, total	48.6		ug/mL	41.4		118	34.3-167				
Batch BK81412 - EPA SW846-3060											
Blank (BK81412-BLK1)						Prepared & Analyzed: 11/28/2018					
Chromium, Hexavalent	ND	0.500	mg/kg wet								
Reference (BK81412-SRM1)						Prepared & Analyzed: 11/28/2018					
Chromium, Hexavalent	43.8		mg/L	76.9		57.0	20.3-212				



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
18K0636-01	SB-70A	40mL Vial with Stir Bar-Cool 4° C
18K0636-02	SB-70B	40mL Vial with Stir Bar-Cool 4° C
18K0636-03	SB-71A	40mL Vial with Stir Bar-Cool 4° C
18K0636-04	SB-71B	40mL Vial with Stir Bar-Cool 4° C
18K0636-05	SB-72A	40mL Vial with Stir Bar-Cool 4° C
18K0636-06	SB-72B	40mL Vial with Stir Bar-Cool 4° C
18K0636-07	SB-72C	40mL Vial with Stir Bar-Cool 4° C
18K0636-08	SB-73A	40mL Vial with Stir Bar-Cool 4° C
18K0636-09	SB-73B	40mL Vial with Stir Bar-Cool 4° C
18K0636-10	SB-73C	40mL Vial with Stir Bar-Cool 4° C
18K0636-11	SB-74A	40mL Vial with Stir Bar-Cool 4° C
18K0636-12	SB-74B	40mL Vial with Stir Bar-Cool 4° C
18K0636-13	SB-75A	40mL Vial with Stir Bar-Cool 4° C
18K0636-14	SB-75B	40mL Vial with Stir Bar-Cool 4° C
18K0636-15	SB-76A	40mL Vial with Stir Bar-Cool 4° C
18K0636-16	SB-76B	40mL Vial with Stir Bar-Cool 4° C
18K0636-17	SB-77A	40mL Vial with Stir Bar-Cool 4° C
18K0636-18	SB-77B	40mL Vial with Stir Bar-Cool 4° C
18K0636-19	SB-77C	40mL Vial with Stir Bar-Cool 4° C
18K0636-20	Dup 1114	40mL 01_Clear Vial Cool to 4° C
18K0636-21	Trip Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

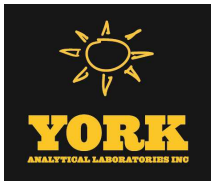


Sample and Data Qualifiers Relating to This Work Order

See attach	See attached
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.
S-08	The recovery of this surrogate was outside of QC 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.
M-SRD1	The serial dilution for this element was outside control limits.
M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
M-MBLK	Analyte was detected in the batch method blank above the Reporting Limit.
M-ICV2	The recovery for this element in the ICV was outside the 90-110% recovery criteria.
M-DUPS	The RPD between the native sample and the duplicate is outside of limits due to sample non-homogeneity
M-CRL	The RL check for this element recovered outside of control limits.
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).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

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.

Corrective Action: Lab Recvd (1) 8oz and one Terracore kit labeled DUP-1114 not listed on chain

11/19/18 client revised coc.



York Analytical Laboratories, Inc.
 120 Research Drive 132-02 89th Ave
 Stratford, CT 06615 Queens, NY 11418
 clientservices@yorklab.com
 www.yorklab.com

Field Chain-of-Custody Record

YORK Project No.
 18K0636

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.

Page 2 of 3

YOUR Information		Report To:		Invoice To:		YOUR Project Number		Turn-Around Time	
Company: AEST	Address: 5 Marine View Plaza, Suite 401	Company: Sample	Address: Sample	Company:	Address:	37321-STX	RUSH - Next Day	RUSH - Two Day	RUSH - Three Day
Phone: 201-876-9400	Contact: James Kelly	Phone:	Contact:	Phone:	Contact:	YOUR Project Name	RUSH - Four Day	Standard (5-7 Day)	
E-mail: skelly@est-solutions-environmental.com		E-mail:		E-mail:		27-10 49th Ave			
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.						YOUR PO#:			

Samples Collected by: (print your name above and sign below) Rebecca Garofalo	Matrix Codes	Samples From	Report / EDD Type (circle selections)			YORK Reg. Comp.
	S - soil / solid GW - groundwater DW - drinking water WW - wastewater O - Oil ; Other	New York New Jersey Connecticut Pennsylvania Other	Summary Report QA Report NY ASP A Package NY ASP B Package	CT RCP CT RCP DQA/DUE NJDEP Reduced Deliverables NJDKQP	Standard Excel EDD EQUIS (Standard) NYSDEC EQUIS NJDEP SRP HazSite Other:	Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
SB-74A	S	11/15 8:21	375-PWT, VOCs, SVOCs, PCBs, Pesticides, TAL METAL	
SB-74B		8:30	inc. hexav. chrom, PFOS	
SB-75A		8:45		
SB-75B		8:57		
SB-76A		9:40		
SB-76B		9:50		
SB-77A		11:31		
SB-77B		11:45		
SB-77C		11:45		

Comments:

Preservation: (check all that apply)
 HCl ___ MeOH ___ HNO₃ ___ H₂SO₄ ___ NaOH ___ ZnAc ___
 Ascorbic Acid ___ Other: ___

Special Instruction
 Field Filtered ___
 Lab to Filter ___

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Rebecca G	11/15-1300	Schmid / York	11/15/18 1PM		
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time

YORK
 York Analytical Laboratories, Inc.
 120 Research Drive
 Stratford, CT 06615
 clientservices@yorklab.com
 www.yorklab.com

Field Chain-of-Custody Record

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.

YOUR Information Company: <u>AESI</u> Address: <u>5 MARINE VIEW RDZ</u> SUITE 401 207-876-9400 Contact: <u>SEANUS KELLY</u> E-mail: <u>skellyt@solutionsenvironmental.com</u>		Report To: Company: Address: Phone: Contact: E-mail:	Invoice To: Company: Address: Phone: Contact: E-mail:
Turn-Around Time RUSH - Next Day RUSH - Two Day RUSH - Three Day RUSH - Four Day Standard (5-7 Day)	YOUR Project Number <u>33501K - STX</u> <u>37321</u> YOUR Project Name <u>27-109TH AVE</u> YOUR PO#:	Matrix Codes New York e - soil / solid GW - groundwater DW - drinking water WW - wastewater O - Oil / other	

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.

Samples Collected By: (print your name above and sign below) <u>R. GAROFALO</u>	Matrix Codes New York e - soil / solid GW - groundwater DW - drinking water WW - wastewater O - Oil / other	Sample Matrix Date/Time Sampled 11/19 10:51 11:04 10:00 10:15 11:19 11:20 11:40 12:18 12:37 12:45	Analysis Requested Summary Report QA Report NY ASP A Package NY ASP B Package Deliverables NYSDEC EQUIS NJDEP SRP HazSlite Other:
--	---	--	---

Sample Identification SB-70A SB-70B SB-71A SB-71B SB-72A SB-72B SB-72C SB-73A SB-73B SB-73C	Container Description 375 Part VOCs, PCBs, Pesticides, TAL me KILS, inc. Hexon Chrom, PDS	Date/Time 11/15/18 11/15/18 11/15/18 11/15/18 11/15/18 11/15/18 11/15/18 11/15/18 11/15/18 11/15/18 11/15/18 11/15/18 11/15/18 11/15/18 11/15/18
---	---	---

Comments: Preservation: (check all that apply) HCl <input type="checkbox"/> MeOH <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> ZnAc <input type="checkbox"/> Ascorbic Acid <input type="checkbox"/> Other: <input type="checkbox"/> Field Filtered <input type="checkbox"/> Lab to Filter <input type="checkbox"/> Special Instruction	Samples Relinquished by / Company Date/Time 11/15/18 1:00 11/15/18 1:00 11/15/18 1:00 11/15/18 1:00 11/15/18 1:00 11/15/18 1:00 11/15/18 1:00 11/15/18 1:00 11/15/18 1:00 11/15/18 1:00 11/15/18 1:00 11/15/18 1:00 11/15/18 1:00 11/15/18 1:00 11/15/18 1:00 11/15/18 1:00	Samples Relinquished by / Company Date/Time 11/15/18 1:00 11/15/18 1:00 11/15/18 1:00 11/15/18 1:00 11/15/18 1:00 11/15/18 1:00 11/15/18 1:00 11/15/18 1:00 11/15/18 1:00 11/15/18 1:00 11/15/18 1:00 11/15/18 1:00 11/15/18 1:00 11/15/18 1:00 11/15/18 1:00 11/15/18 1:00
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YORK Project No. 18K0636
 Page 2 of 2



York Analytical Laboratories, Inc.
 120 Research Drive Stratford, CT 06615
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Field Chain-of-Custody Record

YORK Project No.

18K0636

Page 2 of 3

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YOUR Information		Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: AEST	Address: 5 MACHINE VIEW PLACE SUITE 401	Company:	Address:	37321-SIX	
Phone: 201-2	Contact: Seamus Kelly	Phone:	Contact:	YOUR Project Name	RUSH - Next Day
E-mail:		E-mail:			RUSH - Two Day
					RUSH - Three Day
					RUSH - Four Day
					Standard (5-7 Day)

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.	Matrix Codes	Samples From	Report / EDD Type (circle selections)			YORK Reg. Comp.
	S - soil / solid GW - groundwater DW - drinking water WW - wastewater O - Oil ; Other	New York New Jersey Connecticut Pennsylvania Other	Summary Report QA Report NY ASP A Package NY ASP B Package	CT RCP CT RCP DQA/DUE NJDEP Reduced Deliverables NJDKQP	Standard Excel EDD EQUIS (Standard) NYSDEC EQUIS NJDEP SRP HazSite Other:	Compared to the following Regulation(s): (please fill in)
Samples Collected by: (print your name above and sign below)						

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
Blank		11/14	same	
Triple blank		↓	↓	
11/14 Qsp-1114	S.	11/14		

Comments:	Preservation: (check all that apply)	Special Instruction
	HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other: _____	Field Filtered ___ Lab to Filter ___

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Rebecca G	11/15	[Signature] / York	11/15/18 1PM		
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time
					Temp. Received at Lab

December 4, 2018

Richard August
York Analytical Labs
120 Research Drive
Stratford, CT 06615

Project Location: 18K0636
Client Job Number:
Project Number: 18K0636
Laboratory Work Order Number: 18K0809

Enclosed are results of analyses for samples received by the laboratory on November 16, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive, flowing style.

Kerry K. McGee
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

York Analytical Labs
 120 Research Drive
 Stratford, CT 06615
 ATTN: Richard August

REPORT DATE: 12/4/2018

PURCHASE ORDER NUMBER: 18K0636

PROJECT NUMBER: 18K0636

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18K0809

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 18K0636

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB-70A	18K0809-01	Soil		SOP-465 PFAS	
SB-70B	18K0809-02	Soil		SOP-465 PFAS	
SB-71A	18K0809-03	Soil		SOP-465 PFAS	
SB-71B	18K0809-04	Soil		SOP-465 PFAS	
SB-72A	18K0809-05	Soil		SOP-465 PFAS	
SB-72B	18K0809-06	Soil		SOP-465 PFAS	
SB-72C	18K0809-07	Soil		SOP-465 PFAS	
SB-73A	18K0809-08	Soil		SOP-465 PFAS	
SB-73B	18K0809-09	Soil		SOP-465 PFAS	
SB-73C	18K0809-10	Soil		SOP-465 PFAS	
SB-74A	18K0809-11	Soil		SOP-465 PFAS	
SB-74B	18K0809-12	Soil		SOP-465 PFAS	
SB-75A	18K0809-13	Soil		SOP-465 PFAS	
SB-75B	18K0809-14	Soil		SOP-465 PFAS	
SB-76A	18K0809-15	Soil		SOP-465 PFAS	
SB-76B	18K0809-16	Soil		SOP-465 PFAS	
SB-77A	18K0809-17	Soil		SOP-465 PFAS	
SB-77B	18K0809-18	Soil		SOP-465 PFAS	
SB-77C	18K0809-19	Soil		SOP-465 PFAS	
DUP 1114	18K0809-20	Soil		SOP-465 PFAS	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SOP-465 PFAS

Qualifications:

L-01

Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.

Analyte & Samples(s) Qualified:

8:2 Fluorotelomersulfonate (8:2 FT)
B217822-BS1

R-06

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

Analyte & Samples(s) Qualified:

Perfluorobutanesulfonic acid (PFB)
B217822-MSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

6:2 Fluorotelomersulfonate (6:2 FT)
S029841-CCV2, S029841-CCV3

8:2 Fluorotelomersulfonate (8:2 FT)
S029841-CCV2, S029841-CCV3

Perfluorobutanesulfonic acid (PFB)
S029841-CCV3

Perfluorodecanesulfonic acid (PFD)
S029841-CCV3

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0636

Sample Description:

Work Order: 18K0809

Date Received: 11/16/2018

Field Sample #: SB-70A

Sampled: 11/14/2018 10:59

Sample ID: 18K0809-01

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 14:53	KAF
Perfluorohexanoic acid (PFHxA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 14:53	KAF
Perfluoroheptanoic acid (PFHpA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 14:53	KAF
Perfluorobutanoic acid (PFBA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 14:53	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 14:53	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 14:53	KAF
Perfluorooctanesulfonamide (FOSA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 14:53	KAF
Perfluoropentanoic acid (PFPeA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 14:53	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 14:53	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 14:53	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 14:53	KAF
Perfluorooctanoic acid (PFOA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 14:53	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 14:53	KAF
Perfluorononanoic acid (PFNA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 14:53	KAF
Perfluorodecanoic acid (PFDA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 14:53	KAF
NMeFOSAA	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 14:53	KAF
Perfluoroundecanoic acid (PFUnA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 14:53	KAF
NEtFOSAA	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 14:53	KAF
Perfluorododecanoic acid (PFDoA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 14:53	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 14:53	KAF
Perfluorotetradecanoic acid (PFTA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 14:53	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		97.0	70-130					11/30/18 14:53	
13C-PFDA		89.0	70-130					11/30/18 14:53	
d5-NEtFOSAA		104	70-130					11/30/18 14:53	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0636

Sample Description:

Work Order: 18K0809

Date Received: 11/16/2018

Field Sample #: SB-70B

Sampled: 11/14/2018 11:04

Sample ID: 18K0809-02

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:06	KAF
Perfluorohexanoic acid (PFHxA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:06	KAF
Perfluoroheptanoic acid (PFHpA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:06	KAF
Perfluorobutanoic acid (PFBA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:06	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:06	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:06	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:06	KAF
Perfluoropentanoic acid (PFPeA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:06	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:06	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:06	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:06	KAF
Perfluorooctanoic acid (PFOA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:06	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:06	KAF
Perfluorononanoic acid (PFNA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:06	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:06	KAF
NMeFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:06	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:06	KAF
NEtFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:06	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:06	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:06	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:06	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		89.0	70-130					11/30/18 15:06	
13C-PFDA		78.8	70-130					11/30/18 15:06	
d5-NEtFOSAA		91.5	70-130					11/30/18 15:06	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0636

Sample Description:

Work Order: 18K0809

Date Received: 11/16/2018

Field Sample #: SB-71A

Sampled: 11/14/2018 10:00

Sample ID: 18K0809-03

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:19	KAF
Perfluorohexanoic acid (PFHxA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:19	KAF
Perfluoroheptanoic acid (PFHpA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:19	KAF
Perfluorobutanoic acid (PFBA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:19	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:19	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:19	KAF
Perfluorooctanesulfonamide (FOSA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:19	KAF
Perfluoropentanoic acid (PFPeA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:19	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:19	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:19	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:19	KAF
Perfluorooctanoic acid (PFOA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:19	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:19	KAF
Perfluorononanoic acid (PFNA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:19	KAF
Perfluorodecanoic acid (PFDA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:19	KAF
NMeFOSAA	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:19	KAF
Perfluoroundecanoic acid (PFUnA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:19	KAF
NEtFOSAA	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:19	KAF
Perfluorododecanoic acid (PFDoA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:19	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:19	KAF
Perfluorotetradecanoic acid (PFTA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:19	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		89.1	70-130					11/30/18 15:19	
13C-PFDA		80.0	70-130					11/30/18 15:19	
d5-NEtFOSAA		93.9	70-130					11/30/18 15:19	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0636

Sample Description:

Work Order: 18K0809

Date Received: 11/16/2018

Field Sample #: SB-71B

Sampled: 11/14/2018 10:15

Sample ID: 18K0809-04

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:32	KAF
Perfluorohexanoic acid (PFHxA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:32	KAF
Perfluoroheptanoic acid (PFHpA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:32	KAF
Perfluorobutanoic acid (PFBA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:32	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:32	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:32	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:32	KAF
Perfluoropentanoic acid (PFPeA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:32	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:32	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:32	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:32	KAF
Perfluorooctanoic acid (PFOA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:32	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:32	KAF
Perfluorononanoic acid (PFNA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:32	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:32	KAF
NMeFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:32	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:32	KAF
NEtFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:32	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:32	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:32	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:32	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		95.8	70-130					11/30/18 15:32	
13C-PFDA		83.8	70-130					11/30/18 15:32	
d5-NEtFOSAA		96.1	70-130					11/30/18 15:32	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0636

Sample Description:

Work Order: 18K0809

Date Received: 11/16/2018

Field Sample #: SB-72A

Sampled: 11/14/2018 11:14

Sample ID: 18K0809-05

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:44	KAF
Perfluorohexanoic acid (PFHxA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:44	KAF
Perfluoroheptanoic acid (PFHpA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:44	KAF
Perfluorobutanoic acid (PFBA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:44	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:44	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:44	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:44	KAF
Perfluoropentanoic acid (PFPeA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:44	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:44	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:44	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:44	KAF
Perfluorooctanoic acid (PFOA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:44	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:44	KAF
Perfluorononanoic acid (PFNA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:44	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:44	KAF
NMeFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:44	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:44	KAF
NEtFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:44	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:44	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:44	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:44	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		97.9	70-130					11/30/18 15:44	
13C-PFDA		92.2	70-130					11/30/18 15:44	
d5-NEtFOSAA		95.7	70-130					11/30/18 15:44	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0636

Sample Description:

Work Order: 18K0809

Date Received: 11/16/2018

Field Sample #: SB-72B

Sampled: 11/14/2018 11:20

Sample ID: 18K0809-06

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:57	KAF
Perfluorohexanoic acid (PFHxA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:57	KAF
Perfluoroheptanoic acid (PFHpA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:57	KAF
Perfluorobutanoic acid (PFBA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:57	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:57	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:57	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:57	KAF
Perfluoropentanoic acid (PFPeA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:57	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:57	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:57	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:57	KAF
Perfluorooctanoic acid (PFOA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:57	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:57	KAF
Perfluorononanoic acid (PFNA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:57	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:57	KAF
NMeFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:57	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:57	KAF
NEtFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:57	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:57	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:57	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 15:57	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		89.1	70-130					11/30/18 15:57	
13C-PFDA		86.6	70-130					11/30/18 15:57	
d5-NEtFOSAA		96.6	70-130					11/30/18 15:57	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0636

Sample Description:

Work Order: 18K0809

Date Received: 11/16/2018

Field Sample #: SB-72C

Sampled: 11/14/2018 11:40

Sample ID: 18K0809-07

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:10	KAF
Perfluorohexanoic acid (PFHxA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:10	KAF
Perfluoroheptanoic acid (PFHpA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:10	KAF
Perfluorobutanoic acid (PFBA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:10	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:10	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:10	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:10	KAF
Perfluoropentanoic acid (PFPeA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:10	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:10	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:10	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:10	KAF
Perfluorooctanoic acid (PFOA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:10	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:10	KAF
Perfluorononanoic acid (PFNA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:10	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:10	KAF
NMeFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:10	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:10	KAF
NEtFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:10	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:10	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:10	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:10	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		99.6	70-130					11/30/18 16:10	
13C-PFDA		90.6	70-130					11/30/18 16:10	
d5-NEtFOSAA		94.3	70-130					11/30/18 16:10	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0636

Sample Description:

Work Order: 18K0809

Date Received: 11/16/2018

Field Sample #: SB-73A

Sampled: 11/14/2018 12:18

Sample ID: 18K0809-08

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:23	KAF
Perfluorohexanoic acid (PFHxA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:23	KAF
Perfluoroheptanoic acid (PFHpA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:23	KAF
Perfluorobutanoic acid (PFBA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:23	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:23	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:23	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:23	KAF
Perfluoropentanoic acid (PFPeA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:23	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:23	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:23	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:23	KAF
Perfluorooctanoic acid (PFOA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:23	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:23	KAF
Perfluorononanoic acid (PFNA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:23	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:23	KAF
NMeFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:23	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:23	KAF
NEtFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:23	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:23	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:23	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:23	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		98.5	70-130					11/30/18 16:23	
13C-PFDA		91.0	70-130					11/30/18 16:23	
d5-NEtFOSAA		102	70-130					11/30/18 16:23	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0636

Sample Description:

Work Order: 18K0809

Date Received: 11/16/2018

Field Sample #: SB-73B

Sampled: 11/14/2018 12:37

Sample ID: 18K0809-09

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:35	KAF
Perfluorohexanoic acid (PFHxA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:35	KAF
Perfluoroheptanoic acid (PFHpA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:35	KAF
Perfluorobutanoic acid (PFBA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:35	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:35	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:35	KAF
Perfluorooctanesulfonamide (FOSA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:35	KAF
Perfluoropentanoic acid (PFPeA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:35	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:35	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:35	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:35	KAF
Perfluorooctanoic acid (PFOA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:35	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:35	KAF
Perfluorononanoic acid (PFNA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:35	KAF
Perfluorodecanoic acid (PFDA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:35	KAF
NMeFOSAA	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:35	KAF
Perfluoroundecanoic acid (PFUnA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:35	KAF
NEtFOSAA	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:35	KAF
Perfluorododecanoic acid (PFDoA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:35	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:35	KAF
Perfluorotetradecanoic acid (PFTA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:35	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		93.5	70-130					11/30/18 16:35	
13C-PFDA		85.7	70-130					11/30/18 16:35	
d5-NEtFOSAA		95.5	70-130					11/30/18 16:35	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0636

Sample Description:

Work Order: 18K0809

Date Received: 11/16/2018

Field Sample #: SB-73C

Sampled: 11/14/2018 12:45

Sample ID: 18K0809-10

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:48	KAF
Perfluorohexanoic acid (PFHxA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:48	KAF
Perfluoroheptanoic acid (PFHpA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:48	KAF
Perfluorobutanoic acid (PFBA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:48	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:48	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:48	KAF
Perfluorooctanesulfonamide (FOSA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:48	KAF
Perfluoropentanoic acid (PFPeA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:48	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:48	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:48	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:48	KAF
Perfluorooctanoic acid (PFOA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:48	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:48	KAF
Perfluorononanoic acid (PFNA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:48	KAF
Perfluorodecanoic acid (PFDA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:48	KAF
NMeFOSAA	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:48	KAF
Perfluoroundecanoic acid (PFUnA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:48	KAF
NEtFOSAA	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:48	KAF
Perfluorododecanoic acid (PFDoA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:48	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:48	KAF
Perfluorotetradecanoic acid (PFTA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 16:48	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		95.0	70-130					11/30/18 16:48	
13C-PFDA		89.1	70-130					11/30/18 16:48	
d5-NEtFOSAA		99.6	70-130					11/30/18 16:48	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0636

Sample Description:

Work Order: 18K0809

Date Received: 11/16/2018

Field Sample #: SB-74A

Sampled: 11/15/2018 08:21

Sample ID: 18K0809-11

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:14	KAF
Perfluorohexanoic acid (PFHxA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:14	KAF
Perfluoroheptanoic acid (PFHpA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:14	KAF
Perfluorobutanoic acid (PFBA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:14	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:14	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:14	KAF
Perfluorooctanesulfonamide (FOSA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:14	KAF
Perfluoropentanoic acid (PFPeA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:14	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:14	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:14	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:14	KAF
Perfluorooctanoic acid (PFOA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:14	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:14	KAF
Perfluorononanoic acid (PFNA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:14	KAF
Perfluorodecanoic acid (PFDA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:14	KAF
NMeFOSAA	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:14	KAF
Perfluoroundecanoic acid (PFUnA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:14	KAF
NEtFOSAA	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:14	KAF
Perfluorododecanoic acid (PFDoA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:14	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:14	KAF
Perfluorotetradecanoic acid (PFTA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:14	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		103	70-130					11/30/18 17:14	
13C-PFDA		91.9	70-130					11/30/18 17:14	
d5-NEtFOSAA		99.4	70-130					11/30/18 17:14	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0636

Sample Description:

Work Order: 18K0809

Date Received: 11/16/2018

Field Sample #: SB-74B

Sampled: 11/15/2018 08:30

Sample ID: 18K0809-12

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:26	KAF
Perfluorohexanoic acid (PFHxA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:26	KAF
Perfluoroheptanoic acid (PFHpA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:26	KAF
Perfluorobutanoic acid (PFBA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:26	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:26	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:26	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:26	KAF
Perfluoropentanoic acid (PFPeA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:26	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:26	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:26	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:26	KAF
Perfluorooctanoic acid (PFOA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:26	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:26	KAF
Perfluorononanoic acid (PFNA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:26	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:26	KAF
NMeFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:26	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:26	KAF
NEtFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:26	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:26	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:26	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:26	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		94.0	70-130					11/30/18 17:26	
13C-PFDA		84.7	70-130					11/30/18 17:26	
d5-NEtFOSAA		98.5	70-130					11/30/18 17:26	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0636

Sample Description:

Work Order: 18K0809

Date Received: 11/16/2018

Field Sample #: SB-75A

Sampled: 11/15/2018 08:45

Sample ID: 18K0809-13

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:39	KAF
Perfluorohexanoic acid (PFHxA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:39	KAF
Perfluoroheptanoic acid (PFHpA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:39	KAF
Perfluorobutanoic acid (PFBA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:39	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:39	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:39	KAF
Perfluorooctanesulfonamide (FOSA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:39	KAF
Perfluoropentanoic acid (PFPeA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:39	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:39	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:39	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:39	KAF
Perfluorooctanoic acid (PFOA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:39	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:39	KAF
Perfluorononanoic acid (PFNA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:39	KAF
Perfluorodecanoic acid (PFDA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:39	KAF
NMeFOSAA	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:39	KAF
Perfluoroundecanoic acid (PFUnA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:39	KAF
NEtFOSAA	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:39	KAF
Perfluorododecanoic acid (PFDoA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:39	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:39	KAF
Perfluorotetradecanoic acid (PFTA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:39	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		100	70-130					11/30/18 17:39	
13C-PFDA		84.1	70-130					11/30/18 17:39	
d5-NEtFOSAA		94.8	70-130					11/30/18 17:39	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0636

Sample Description:

Work Order: 18K0809

Date Received: 11/16/2018

Field Sample #: SB-75B

Sampled: 11/15/2018 08:57

Sample ID: 18K0809-14

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:52	KAF
Perfluorohexanoic acid (PFHxA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:52	KAF
Perfluoroheptanoic acid (PFHpA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:52	KAF
Perfluorobutanoic acid (PFBA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:52	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:52	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:52	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:52	KAF
Perfluoropentanoic acid (PFPeA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:52	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:52	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:52	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:52	KAF
Perfluorooctanoic acid (PFOA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:52	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:52	KAF
Perfluorononanoic acid (PFNA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:52	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:52	KAF
NMeFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:52	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:52	KAF
NEtFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:52	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:52	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:52	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 17:52	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		93.0	70-130					11/30/18 17:52	
13C-PFDA		81.1	70-130					11/30/18 17:52	
d5-NEtFOSAA		95.9	70-130					11/30/18 17:52	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0636

Sample Description:

Work Order: 18K0809

Date Received: 11/16/2018

Field Sample #: SB-76A

Sampled: 11/15/2018 09:40

Sample ID: 18K0809-15

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:05	KAF
Perfluorohexanoic acid (PFHxA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:05	KAF
Perfluoroheptanoic acid (PFHpA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:05	KAF
Perfluorobutanoic acid (PFBA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:05	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:05	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:05	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:05	KAF
Perfluoropentanoic acid (PFPeA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:05	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:05	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:05	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:05	KAF
Perfluorooctanoic acid (PFOA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:05	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:05	KAF
Perfluorononanoic acid (PFNA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:05	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:05	KAF
NMeFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:05	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:05	KAF
NEtFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:05	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:05	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:05	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:05	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		95.4	70-130					11/30/18 18:05	
13C-PFDA		95.5	70-130					11/30/18 18:05	
d5-NEtFOSAA		95.5	70-130					11/30/18 18:05	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0636

Sample Description:

Work Order: 18K0809

Date Received: 11/16/2018

Field Sample #: SB-76B

Sampled: 11/15/2018 09:50

Sample ID: 18K0809-16

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:17	KAF
Perfluorohexanoic acid (PFHxA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:17	KAF
Perfluoroheptanoic acid (PFHpA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:17	KAF
Perfluorobutanoic acid (PFBA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:17	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:17	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:17	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:17	KAF
Perfluoropentanoic acid (PFPeA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:17	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:17	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:17	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:17	KAF
Perfluorooctanoic acid (PFOA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:17	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:17	KAF
Perfluorononanoic acid (PFNA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:17	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:17	KAF
NMeFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:17	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:17	KAF
NEtFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:17	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:17	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:17	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:17	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		90.5	70-130					11/30/18 18:17	
13C-PFDA		86.2	70-130					11/30/18 18:17	
d5-NEtFOSAA		89.1	70-130					11/30/18 18:17	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0636

Sample Description:

Work Order: 18K0809

Date Received: 11/16/2018

Field Sample #: SB-77A

Sampled: 11/15/2018 11:31

Sample ID: 18K0809-17

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:30	KAF
Perfluorohexanoic acid (PFHxA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:30	KAF
Perfluoroheptanoic acid (PFHpA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:30	KAF
Perfluorobutanoic acid (PFBA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:30	KAF
Perfluorodecanesulfonic acid (PFDS)	2.6	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:30	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:30	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:30	KAF
Perfluoropentanoic acid (PFPeA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:30	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:30	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:30	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:30	KAF
Perfluorooctanoic acid (PFOA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:30	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:30	KAF
Perfluorononanoic acid (PFNA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:30	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:30	KAF
NMeFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:30	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:30	KAF
NEtFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:30	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:30	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:30	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:30	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		97.5	70-130					11/30/18 18:30	
13C-PFDA		91.2	70-130					11/30/18 18:30	
d5-NEtFOSAA		104	70-130					11/30/18 18:30	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0636

Sample Description:

Work Order: 18K0809

Date Received: 11/16/2018

Field Sample #: SB-77B

Sampled: 11/15/2018 11:45

Sample ID: 18K0809-18

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:43	KAF
Perfluorohexanoic acid (PFHxA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:43	KAF
Perfluoroheptanoic acid (PFHpA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:43	KAF
Perfluorobutanoic acid (PFBA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:43	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:43	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:43	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:43	KAF
Perfluoropentanoic acid (PFPeA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:43	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:43	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:43	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:43	KAF
Perfluorooctanoic acid (PFOA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:43	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:43	KAF
Perfluorononanoic acid (PFNA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:43	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:43	KAF
NMeFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:43	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:43	KAF
NEtFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:43	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:43	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:43	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:43	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		96.8	70-130					11/30/18 18:43	
13C-PFDA		81.5	70-130					11/30/18 18:43	
d5-NEtFOSAA		90.6	70-130					11/30/18 18:43	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0636

Sample Description:

Work Order: 18K0809

Date Received: 11/16/2018

Field Sample #: SB-77C

Sampled: 11/15/2018 11:45

Sample ID: 18K0809-19

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:56	KAF
Perfluorohexanoic acid (PFHxA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:56	KAF
Perfluoroheptanoic acid (PFHpA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:56	KAF
Perfluorobutanoic acid (PFBA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:56	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:56	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:56	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:56	KAF
Perfluoropentanoic acid (PFPeA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:56	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:56	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:56	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:56	KAF
Perfluorooctanoic acid (PFOA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:56	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:56	KAF
Perfluorononanoic acid (PFNA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:56	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:56	KAF
NMeFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:56	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:56	KAF
NEtFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:56	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:56	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:56	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 18:56	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		96.5	70-130					11/30/18 18:56	
13C-PFDA		92.5	70-130					11/30/18 18:56	
d5-NEtFOSAA		100	70-130					11/30/18 18:56	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0636

Sample Description:

Work Order: 18K0809

Date Received: 11/16/2018

Field Sample #: DUP 1114

Sampled: 11/15/2018 11:14

Sample ID: 18K0809-20

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 19:08	KAF
Perfluorohexanoic acid (PFHxA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 19:08	KAF
Perfluoroheptanoic acid (PFHpA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 19:08	KAF
Perfluorobutanoic acid (PFBA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 19:08	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 19:08	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 19:08	KAF
Perfluorooctanesulfonamide (FOSA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 19:08	KAF
Perfluoropentanoic acid (PFPeA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 19:08	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 19:08	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 19:08	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 19:08	KAF
Perfluorooctanoic acid (PFOA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 19:08	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 19:08	KAF
Perfluorononanoic acid (PFNA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 19:08	KAF
Perfluorodecanoic acid (PFDA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 19:08	KAF
NMeFOSAA	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 19:08	KAF
Perfluoroundecanoic acid (PFUnA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 19:08	KAF
NEtFOSAA	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 19:08	KAF
Perfluorododecanoic acid (PFDoA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 19:08	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 19:08	KAF
Perfluorotetradecanoic acid (PFTA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/30/18 19:08	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		93.6	70-130					11/30/18 19:08	
13C-PFDA		88.1	70-130					11/30/18 19:08	
d5-NEtFOSAA		93.5	70-130					11/30/18 19:08	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data**Prep Method: EPA 537-SOP-465 PFAS**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0809-01 [SB-70A]	B217822	2.08	10.0	11/26/18
18K0809-02 [SB-70B]	B217822	2.01	10.0	11/26/18
18K0809-03 [SB-71A]	B217822	2.09	10.0	11/26/18
18K0809-04 [SB-71B]	B217822	2.05	10.0	11/26/18
18K0809-05 [SB-72A]	B217822	2.04	10.0	11/26/18
18K0809-06 [SB-72B]	B217822	2.05	10.0	11/26/18
18K0809-07 [SB-72C]	B217822	2.02	10.0	11/26/18
18K0809-08 [SB-73A]	B217822	2.03	10.0	11/26/18
18K0809-09 [SB-73B]	B217822	2.06	10.0	11/26/18
18K0809-10 [SB-73C]	B217822	2.07	10.0	11/26/18
18K0809-11 [SB-74A]	B217822	2.07	10.0	11/26/18
18K0809-12 [SB-74B]	B217822	2.00	10.0	11/26/18
18K0809-13 [SB-75A]	B217822	2.08	10.0	11/26/18
18K0809-14 [SB-75B]	B217822	2.03	10.0	11/26/18
18K0809-15 [SB-76A]	B217822	2.03	10.0	11/26/18
18K0809-16 [SB-76B]	B217822	2.05	10.0	11/26/18
18K0809-17 [SB-77A]	B217822	2.03	10.0	11/26/18
18K0809-18 [SB-77B]	B217822	2.03	10.0	11/26/18
18K0809-19 [SB-77C]	B217822	2.04	10.0	11/26/18
18K0809-20 [DUP 1114]	B217822	2.07	10.0	11/26/18

QUALITY CONTROL

Semivolatile Organic Compounds by - GC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217822 - EPA 537										
Blank (B217822-BLK1)										
Prepared: 11/26/18 Analyzed: 11/30/18										
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	µg/kg							
Perfluorohexanoic acid (PFHxA)	ND	2.0	µg/kg							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	µg/kg							
Perfluorobutanoic acid (PFBA)	ND	2.0	µg/kg							
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	µg/kg							
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	µg/kg							
Perfluorooctanesulfonamide (FOSA)	ND	2.0	µg/kg							
Perfluoropentanoic acid (PFPeA)	ND	2.0	µg/kg							
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0	µg/kg							
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	µg/kg							
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	µg/kg							
Perfluorooctanoic acid (PFOA)	ND	2.0	µg/kg							
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	µg/kg							
Perfluorononanoic acid (PFNA)	ND	2.0	µg/kg							
Perfluorodecanoic acid (PFDA)	ND	2.0	µg/kg							
NMeFOSAA	ND	2.0	µg/kg							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	µg/kg							
NEtFOSAA	ND	2.0	µg/kg							
Perfluorododecanoic acid (PFDoA)	ND	2.0	µg/kg							
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	µg/kg							
Perfluorotetradecanoic acid (PFTA)	ND	2.0	µg/kg							
Surrogate: 13C-PFHxA	50.4		µg/kg	49.3		102	70-130			
Surrogate: 13C-PFDA	45.7		µg/kg	49.3		92.8	70-130			
Surrogate: d5-NEtFOSAA	213		µg/kg	197		108	70-130			
LCS (B217822-BS1)										
Prepared: 11/26/18 Analyzed: 11/30/18										
Perfluorobutanesulfonic acid (PFBS)	2.85	2.0	µg/kg	2.19		130	50-150			
Perfluorohexanoic acid (PFHxA)	2.30	2.0	µg/kg	2.48		92.9	50-150			
Perfluoroheptanoic acid (PFHpA)	2.25	2.0	µg/kg	2.48		90.9	50-150			
Perfluorobutanoic acid (PFBA)	2.85	2.0	µg/kg	2.48		115	50-150			
Perfluorodecanesulfonic acid (PFDS)	2.87	2.0	µg/kg	2.39		120	50-150			
Perfluoroheptanesulfonic acid (PFHpS)	1.53	2.0	µg/kg	2.35		64.9	50-150			
Perfluorooctanesulfonamide (FOSA)	3.02	2.0	µg/kg	2.48		122	50-150			
Perfluoropentanoic acid (PFPeA)	1.90	2.0	µg/kg	2.48		76.6	50-150			
6:2 Fluorotelomersulfonate (6:2 FTS)	2.92	2.0	µg/kg	2.35		124	50-150			
8:2 Fluorotelomersulfonate (8:2 FTS)	3.66	2.0	µg/kg	2.38		154 *	50-150			L-01
Perfluorohexanesulfonic acid (PFHxS)	2.20	2.0	µg/kg	2.25		97.9	50-150			
Perfluorooctanoic acid (PFOA)	2.14	2.0	µg/kg	2.48		86.5	50-150			
Perfluorooctanesulfonic acid (PFOS)	1.69	2.0	µg/kg	2.29		73.7	50-150			
Perfluorononanoic acid (PFNA)	2.83	2.0	µg/kg	2.48		114	50-150			
Perfluorodecanoic acid (PFDA)	2.10	2.0	µg/kg	2.48		84.7	50-150			
NMeFOSAA	2.55	2.0	µg/kg	2.48		103	50-150			
Perfluoroundecanoic acid (PFUnA)	2.33	2.0	µg/kg	2.48		94.1	50-150			
NEtFOSAA	3.18	2.0	µg/kg	2.48		129	50-150			
Perfluorododecanoic acid (PFDoA)	2.37	2.0	µg/kg	2.48		95.6	50-150			
Perfluorotridecanoic acid (PFTrDA)	1.99	2.0	µg/kg	2.48		80.6	50-150			
Perfluorotetradecanoic acid (PFTA)	2.91	2.0	µg/kg	2.48		118	50-150			
Surrogate: 13C-PFHxA	42.6		µg/kg	49.5		86.0	70-130			
Surrogate: 13C-PFDA	40.7		µg/kg	49.5		82.3	70-130			
Surrogate: d5-NEtFOSAA	192		µg/kg	198		97.0	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - GC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B217822 - EPA 537

Matrix Spike (B217822-MS1)	Source: 18K0809-07			Prepared: 11/26/18 Analyzed: 11/30/18						
Perfluorobutanesulfonic acid (PFBS)	1.90	2.0	µg/kg	2.20	ND	86.3	50-150			
Perfluorohexanoic acid (PFHxA)	2.28	2.0	µg/kg	2.49	ND	91.7	50-150			
Perfluoroheptanoic acid (PFHpA)	2.18	2.0	µg/kg	2.49	ND	87.4	50-150			
Perfluorobutanoic acid (PFBA)	2.89	2.0	µg/kg	2.49	ND	116	50-150			
Perfluorodecanesulfonic acid (PFDS)	3.35	2.0	µg/kg	2.40	ND	140	50-150			
Perfluoroheptanesulfonic acid (PFHpS)	2.39	2.0	µg/kg	2.36	ND	101	50-150			
Perfluorooctanesulfonamide (FOSA)	2.77	2.0	µg/kg	2.49	ND	111	50-150			
Perfluoropentanoic acid (PFPeA)	2.44	2.0	µg/kg	2.49	ND	98.1	50-150			
6:2 Fluorotelomersulfonate (6:2 FTS)	3.41	2.0	µg/kg	2.36	ND	144	50-150			
8:2 Fluorotelomersulfonate (8:2 FTS)	1.97	2.0	µg/kg	2.39	ND	82.4	50-150			
Perfluorohexanesulfonic acid (PFHxS)	2.75	2.0	µg/kg	2.26	ND	121	50-150			
Perfluorooctanoic acid (PFOA)	2.68	2.0	µg/kg	2.49	ND	108	50-150			
Perfluorooctanesulfonic acid (PFOS)	2.03	2.0	µg/kg	2.30	ND	88.3	50-150			
Perfluorononanoic acid (PFNA)	2.55	2.0	µg/kg	2.49	ND	103	50-150			
Perfluorodecanoic acid (PFDA)	2.15	2.0	µg/kg	2.49	ND	86.5	50-150			
NMeFOSAA	2.41	2.0	µg/kg	2.49	ND	97.0	50-150			
Perfluoroundecanoic acid (PFUnA)	1.89	2.0	µg/kg	2.49	ND	76.2	50-150			
NEtFOSAA	2.94	2.0	µg/kg	2.49	ND	118	50-150			
Perfluorododecanoic acid (PFDoA)	2.26	2.0	µg/kg	2.49	ND	90.8	50-150			
Perfluorotridecanoic acid (PFTrDA)	1.95	2.0	µg/kg	2.49	ND	78.6	50-150			
Perfluorotetradecanoic acid (PFTA)	2.01	2.0	µg/kg	2.49	ND	80.6	50-150			
Surrogate: 13C-PFHxA	44.6		µg/kg	49.8		89.6	70-130			
Surrogate: 13C-PFDA	41.4		µg/kg	49.8		83.2	70-130			
Surrogate: d5-NEtFOSAA	186		µg/kg	199		93.7	70-130			

Matrix Spike Dup (B217822-MSD1)	Source: 18K0809-07			Prepared: 11/26/18 Analyzed: 11/30/18						
Perfluorobutanesulfonic acid (PFBS)	2.64	2.0	µg/kg	2.17	ND	122	50-150	32.7 *	30	R-06
Perfluorohexanoic acid (PFHxA)	2.57	2.0	µg/kg	2.45	ND	105	50-150	11.9	30	
Perfluoroheptanoic acid (PFHpA)	2.34	2.0	µg/kg	2.45	ND	95.6	50-150	7.46	30	
Perfluorobutanoic acid (PFBA)	2.71	2.0	µg/kg	2.45	ND	111	50-150	6.40	30	
Perfluorodecanesulfonic acid (PFDS)	2.58	2.0	µg/kg	2.37	ND	109	50-150	26.2	30	
Perfluoroheptanesulfonic acid (PFHpS)	2.00	2.0	µg/kg	2.33	ND	85.7	50-150	17.7	30	
Perfluorooctanesulfonamide (FOSA)	3.20	2.0	µg/kg	2.45	ND	131	50-150	14.4	30	
Perfluoropentanoic acid (PFPeA)	2.45	2.0	µg/kg	2.45	ND	100	50-150	0.401	30	
6:2 Fluorotelomersulfonate (6:2 FTS)	3.29	2.0	µg/kg	2.33	ND	141	50-150	3.62	30	
8:2 Fluorotelomersulfonate (8:2 FTS)	2.62	2.0	µg/kg	2.35	ND	111	50-150	28.3	30	
Perfluorohexanesulfonic acid (PFHxS)	2.05	2.0	µg/kg	2.23	ND	91.7	50-150	29.3	30	
Perfluorooctanoic acid (PFOA)	2.90	2.0	µg/kg	2.45	ND	118	50-150	8.02	30	
Perfluorooctanesulfonic acid (PFOS)	2.41	2.0	µg/kg	2.27	ND	106	50-150	17.1	30	
Perfluorononanoic acid (PFNA)	2.39	2.0	µg/kg	2.45	ND	97.6	50-150	6.51	30	
Perfluorodecanoic acid (PFDA)	1.93	2.0	µg/kg	2.45	ND	78.8	50-150	10.9	30	
NMeFOSAA	1.96	2.0	µg/kg	2.45	ND	79.9	50-150	20.8	30	
Perfluoroundecanoic acid (PFUnA)	1.89	2.0	µg/kg	2.45	ND	77.2	50-150	0.0989	30	
NEtFOSAA	3.02	2.0	µg/kg	2.45	ND	123	50-150	2.58	30	
Perfluorododecanoic acid (PFDoA)	2.42	2.0	µg/kg	2.45	ND	98.8	50-150	6.90	30	
Perfluorotridecanoic acid (PFTrDA)	1.97	2.0	µg/kg	2.45	ND	80.4	50-150	0.845	30	
Perfluorotetradecanoic acid (PFTA)	1.72	2.0	µg/kg	2.45	ND	70.1	50-150	15.5	30	
Surrogate: 13C-PFHxA	44.5		µg/kg	49.0		90.9	70-130			
Surrogate: 13C-PFDA	41.2		µg/kg	49.0		84.0	70-130			
Surrogate: d5-NEtFOSAA	181		µg/kg	196		92.2	70-130			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
L-01	Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.
R-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SOP 434-PFAAS in Water</i>	
Perfluorobutanesulfonic acid (PFBS)	NH-P
Perfluorohexanoic acid (PFHxA)	NH-P
Perfluoroheptanoic acid (PFHpA)	NH-P
Perfluorobutanoic acid (PFBA)	NH-P
Perfluoropentanoic acid (PFPeA)	NH-P
6:2 Fluorotelomersulfonate (6:2 FTS)	NH-P
8:2 Fluorotelomersulfonate (8:2 FTS)	NH-P
Perfluorohexanesulfonic acid (PFHxS)	NH-P
Perfluorooctanoic acid (PFOA)	NH-P
Perfluorooctanesulfonic acid (PFOS)	NH-P
Perfluorononanoic acid (PFNA)	NH-P
Perfluorodecanoic acid (PFDA)	NH-P
NMeFOSAA	NH-P
Perfluoroundecanoic acid (PFUnA)	NH-P
NEtFOSAA	NH-P
Perfluorododecanoic acid (PFDoA)	NH-P
Perfluorotridecanoic acid (PFTrDA)	NH-P
Perfluorotetradecanoic acid (PFTA)	NH-P
<i>SOP-465 PFAS in Soil</i>	
Perfluorobutanesulfonic acid (PFBS)	NH-P
Perfluorohexanoic acid (PFHxA)	NH-P
Perfluoroheptanoic acid (PFHpA)	NH-P
Perfluorohexanesulfonic acid (PFHxS)	NH-P
Perfluorooctanoic acid (PFOA)	NH-P
Perfluorooctanesulfonic acid (PFOS)	NH-P
Perfluorononanoic acid (PFNA)	NH-P
Perfluorodecanoic acid (PFDA)	NH-P
NMeFOSAA	NH-P
Perfluoroundecanoic acid (PFUnA)	NH-P
NEtFOSAA	NH-P
Perfluorododecanoic acid (PFDoA)	NH-P
Perfluorotridecanoic acid (PFTrDA)	NH-P
Perfluorotetradecanoic acid (PFTA)	NH-P

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

KKM

YORK

18K0809

Analytical Laboratories, Inc.

11/16/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody York Project No.: 18K0636

This information is being sent to inform you that York intends to subcontract certain samples to another licensed laboratory for specific parameters that we cannot perform in-house. The specific parameters that will be subcontracted are detailed below. Do not contact the subcontract laboratory directly. Please contact the YORK project manager for further information.

Note: E-mail lab reports to: York_Lab_Report@yorklab.com Mail/Fax Hard Copies to: York Analytical at the address below

SENDING LABORATORY:

York Analytical Laboratories, Inc.
120 Research Drive
Stratford, CT 06615
Phone: 203.325.1371
Fax: 203.357.0166
Contact: York Analytical

RECEIVING LABORATORY:

Con-Test Analytical Laboratory
39 Spruce Street
East Long Meadow, MA 01028
Phone : (413) 525-2332
Fax: (413) 525-6405

York Ref: 18K0636-01

Sample ID: SB-70A

Matrix: Soil

Date Sampled : 11/14/2018 10:59

Analysis Needed	Date Due	Holding Time Expires	Comments
PFAS in Soil by EPA 537m	12/04/2018 16:30	11/28/2018 10:59	

Containers Supplied:

10_250mL Plastic Cool to 4° C (B)

York Ref: 18K0636-02

Sample ID: SB-70B

Matrix: Soil

Date Sampled : 11/14/2018 11:04

Analysis Needed	Date Due	Holding Time Expires	Comments
PFAS in Soil by EPA 537m	12/04/2018 16:30	11/28/2018 11:04	

Containers Supplied:

10_250mL Plastic Cool to 4° C (B)

York Purchase Order No.: 18K0636

Samples from State of: NY

Deliverables required: NYSDEC ASP B

Data Pkg DUE: 12/17/2018

EDDs required: NYSDEC EQUIS

Special Info:

Chain-of-Custody Information

Tom Gabrielson	11/16/2018	<i>[Signature]</i>	11/16/18 10:30
Released By York Sample Control	Date	Received By	Date
<i>[Signature]</i>	11/16/18	<i>[Signature]</i>	11/16/18 12:39
Received By	Date	Received in Subcontract Lab By	Date
		<i>[Signature]</i>	

YORK 18K0809

Analytical Laboratories, Inc.

11/16/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody
York Project No.: 18K0636

This information is being sent to inform you that York intends to subcontract certain samples to another licensed laboratory for specific parameters that we cannot perform in-house. The specific parameters that will be subcontracted are detailed below. Do not contact the subcontract laboratory directly. Please contact the YORK project manager for further information.

Note: E-mail lab reports to: York_Lab_Report@yorklab.com **Mail/Fax Hard Copies to:** York Analytical at the address below

York Ref: 18K0636-03

03

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Matrix:</u> Soil	<u> Holding Time Expires</u>	<u>Date Sampled :</u> 11/14/2018 10:00	<u>Comments</u>
PFAS in Soil by EPA 537m	12/04/2018 16:30		11/28/2018 10:00		
<i>Containers Supplied:</i> 10_250mL Plastic Cool to 4° C (B)					

York Ref: 18K0636-04

04

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Matrix:</u> Soil	<u> Holding Time Expires</u>	<u>Date Sampled :</u> 11/14/2018 10:15	<u>Comments</u>
PFAS in Soil by EPA 537m	12/04/2018 16:30		11/28/2018 10:15		
<i>Containers Supplied:</i> 10_250mL Plastic Cool to 4° C (B)					

York Ref: 18K0636-05

05

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Matrix:</u> Soil	<u> Holding Time Expires</u>	<u>Date Sampled :</u> 11/14/2018 11:14	<u>Comments</u>
PFAS in Soil by EPA 537m	12/04/2018 16:30		11/28/2018 11:14		
<i>Containers Supplied:</i> 10_250mL Plastic Cool to 4° C (B)					

York Purchase Order No.: **18K0636**

Samples from State of: NY

Deliverables required: **NYSDEC ASP B**

Data Pkg DUE: 12/17/2018

EDDs required: **NYSDEC EQUIS**

Special Info:

Chain-of-Custody Information

Released By York Sample Control	Date	Received By	Date
<i>Tom Gabrielson</i>	11/16/2018	<i>[Signature]</i>	11/16/18 10:30
Received By	Date	Received in Subcontract Lab By	Date
<i>[Signature]</i>	11/16/18	<i>[Signature]</i>	11/16/18 10:30

YORK

18K0809

Analytical Laboratories, Inc.

11/16/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody York Project No.: 18K0636

This information is being sent to inform you that York intends to subcontract certain samples to another licensed laboratory for specific parameters that we cannot perform in-house. The specific parameters that will be subcontracted are detailed below. Do not contact the subcontract laboratory directly. Please contact the YORK project manager for further information.

Note: E-mail lab reports to: York_Lab_Report@yorklab.com Mail/Fax Hard Copies to: York Analytical at the address below

York Ref: 18K0636-06

<u>Sample ID:</u> SB-72B	<u>Matrix:</u> Soil	<u>Date Sampled:</u> 11/14/2018 11:20	
<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	12/04/2018 16:30	11/28/2018 11:20	
<i>Containers Supplied:</i> 10_250mL Plastic Cool to 4° C (B)			

York Ref: 18K0636-07

<u>Sample ID:</u> SB-72C	<u>Matrix:</u> Soil	<u>Date Sampled:</u> 11/14/2018 11:40	
<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	12/04/2018 16:30	11/28/2018 11:40	
<i>Containers Supplied:</i> 10_250mL Plastic Cool to 4° C (B)			

York Ref: 18K0636-08

<u>Sample ID:</u> SB-73A	<u>Matrix:</u> Soil	<u>Date Sampled:</u> 11/14/2018 12:18	
<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	12/04/2018 16:30	11/28/2018 12:18	
<i>Containers Supplied:</i> 10_250mL Plastic Cool to 4° C (B)			

York Purchase Order No.: **18K0636**

Samples from State of: NY

Deliverables required: **NYSDEC ASP B**

Data Pkg DUE: 12/17/2018

EDDs required: **NYSDEC EQUIS**

Special Info:

Chain-of-Custody Information

<i>Tom Gabrielson</i>	11/16/2018	<i>[Signature]</i>	11/16/18 10:30
Released By York Sample Control	Date	Received By	Date
<i>[Signature]</i>	11/16/18	<i>[Signature]</i>	11/16/18 1234
Received By	Date	Received in Subcontract Lab By	Date
		<i>[Signature]</i>	

YORK

18K0809

Analytical Laboratories, Inc.

11/16/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody York Project No.: 18K0636

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York Ref: 18K0636-09

09 Sample ID: SB-73B

Matrix: Soil

Date Sampled: 11/14/2018 12:37

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	12/04/2018 16:30	11/28/2018 12:37	

Containers Supplied:

10_250mL Plastic Cool to 4° C (B)

York Ref: 18K0636-10

10 Sample ID: SB-73C

Matrix: Soil

Date Sampled: 11/14/2018 12:45

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	12/04/2018 16:30	11/28/2018 12:45	

Containers Supplied:

10_250mL Plastic Cool to 4° C (B)

York Ref: 18K0636-11

11 Sample ID: SB-74A

Matrix: Soil

Date Sampled: 11/15/2018 08:21

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	12/04/2018 16:30	11/29/2018 08:21	

Containers Supplied:

10_250mL Plastic Cool to 4° C (B)

York Purchase Order No.: 18K0636

Samples from State of: NY

Deliverables required: NYSDEC ASP B

Data Pkg DUE: 12/17/2018

EDDs required: NYSDEC EQUIS

Special Info:

Chain-of-Custody Information

Tom Gabrielson	11/16/2018	<i>[Signature]</i>	11/16/18 10:30
Released By York Sample Control	Date	Received By	Date
<i>[Signature]</i>	11/16/18	<i>[Signature]</i>	11/16/18 12:34
Received By	Date	Received in Subcontract Lab By	Date
		3.9	11/16/18 11:00

YORK

18K0809

Analytical Laboratories, Inc.

11/16/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody
York Project No.: 18K0636

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York Ref: 18K0636-12

Sample ID: SB-74B	Matrix: Soil	Date Sampled: 11/15/2018 08:30
Analysis Needed	Date Due	Holding Time Expires
PFAS in Soil by EPA 537m	12/04/2018 16:30	11/29/2018 08:30

Containers Supplied:

10_250mL Plastic Cool to 4° C (B)

York Ref: 18K0636-13

Sample ID: SB-75A	Matrix: Soil	Date Sampled: 11/15/2018 08:45
Analysis Needed	Date Due	Holding Time Expires
PFAS in Soil by EPA 537m	12/04/2018 16:30	11/29/2018 08:45

Containers Supplied:

10_250mL Plastic Cool to 4° C (B)

York Ref: 18K0636-14

Sample ID: SB-75B	Matrix: Soil	Date Sampled: 11/15/2018 08:57
Analysis Needed	Date Due	Holding Time Expires
PFAS in Soil by EPA 537m	12/04/2018 16:30	11/29/2018 08:57

Containers Supplied:

10_250mL Plastic Cool to 4° C (B)

York Purchase Order No.: 18K0636

Samples from State of: NY

Deliverables required: NYSDEC ASP B

Data Pkg DUE: 12/17/2018

EDDs required: NYSDEC EQUIS

Special Info:

Chain-of-Custody Information

<i>Tom Gabrielson</i>	11/16/2018	<i>Rough Test</i>	11/16/18 10:30
Released By York Sample Control	Date	Received By	Date
<i>Rough Test</i>	11/18/18	<i>[Signature]</i>	11/16/18 1234
Received By	Date	Received in Subcontract Lab By	Date
		<i>[Signature]</i>	<i>HB</i>

YORK

18K0809

Analytical Laboratories, Inc.

11/16/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody

York Project No.: 18K0636

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York Ref: 18K0636-15

15 **Sample ID: SB-76A**

Matrix: Soil

Date Sampled: 11/15/2018 09:40

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	12/04/2018 16:30	11/29/2018 09:40	

Containers Supplied:

10_250mL Plastic Cool to 4° C (B)

York Ref: 18K0636-16

16 **Sample ID: SB-76B**

Matrix: Soil

Date Sampled: 11/15/2018 09:50

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	12/04/2018 16:30	11/29/2018 09:50	

Containers Supplied:

10_250mL Plastic Cool to 4° C (B)

York Ref: 18K0636-17

17 **Sample ID: SB-77A**

Matrix: Soil

Date Sampled: 11/15/2018 11:31

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	12/04/2018 16:30	11/29/2018 11:31	

Containers Supplied:

10_250mL Plastic Cool to 4° C (B)

York Purchase Order No.: 18K0636

Samples from State of: NY

Deliverables required: NYSDEC ASP B

Data Pkg DUE: 12/17/2018

EDDs required: NYSDEC EQUIS

Special Info:

Chain-of-Custody Information

Released By York Sample Control	Tom Gabrielson	11/16/2018	Received By	[Signature]	11/16/18	10:30
Received By	[Signature]	11/16/18	Received in Subcontract Lab By	[Signature]	11/16/18	1234

YORK

18K0609

Analytical Laboratories, Inc.

11/16/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody

York Project No.: 18K0636

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York Ref: 18K0636-18

18 **Sample ID: SB-77B**

Matrix: Soil

Date Sampled : 11/15/2018 11:45

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	12/04/2018 16:30	11/29/2018 11:45	

Containers Supplied:

10_250mL Plastic Cool to 4° C (B)

York Ref: 18K0636-19

19 **Sample ID: SB-77C**

Matrix: Soil

Date Sampled : 11/15/2018 11:45

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	12/04/2018 16:30	11/29/2018 11:45	

Containers Supplied:

10_250mL Plastic Cool to 4° C (B)

York Purchase Order No.: **18K0636**

Samples from State of: NY

Deliverables required: **NYSDEC ASP B**

Data Pkg DUE: 12/17/2018

EDDs required: **NYSDEC EQUIS**

Special Info:

Chain-of-Custody Information

Released By York Sample Control	Tom Gabrielson	11/16/2018	Received By	[Signature]	11/16/18	10:30
Received By	[Signature]	11/16/18	Received in Subcontract Lab By	[Signature]	3.9	11/16/18 1234

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



con-test
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client York Analytical

Received By RLF Date 11/16/18 Time 1239

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 2 Actual Temp - 3.9 C
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____
Are there Rushes? F Who was notified? _____
Are there Short Holds? F Who was notified? _____

Is there enough Volume? T

Is there Headspace where applicable? NA MS/MSD? F
Proper Media/Containers Used? T Is splitting samples required? _____

Were trip blanks received? F On COC? _____
Do all samples have the proper pH? Acid NA Base NA

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	19	4oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear
DI-		Other Glass		Other Plastic		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Unused Media

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments:

KKM

18K0809

YORK

Analytical Laboratories, Inc.

11/19/2018

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SENDING LABORATORY:

York Analytical Laboratories, Inc.
120 Research Drive
Stratford, CT 06615
Phone: 203.325.1371
Fax: 203.357.0166
Contact: York Analytical

RECEIVING LABORATORY:

Con-Test Analytical Laboratory
39 Spruce Street
East Long Meadow, MA 01028
Phone :(413) 525-2332
Fax: (413) 525-6405

York Ref: 18K0636-01

Sample ID: SB-70A

Matrix: Soil

Date Sampled : 11/14/2018 10:59

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	12/04/2018 16:30	11/28/2018 10:59	

Containers Supplied:
10_250mL Plastic Cool to 4° C (B)

York Ref: 18K0636-02

Sample ID: SB-70B

Matrix: Soil

Date Sampled : 11/14/2018 11:04

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	12/04/2018 16:30	11/28/2018 11:04	

Containers Supplied:
10_250mL Plastic Cool to 4° C (B)

York Purchase Order No.: 18K0636

Samples from State of: NY

Deliverables required: NYSDEC ASP B

Data Pkg DUE: 12/17/2018

EDDs required: NYSDEC EQUIS

Special Info:

Chain-of-Custody Information

Tom Gabrielson	11/19/2018	<i>Run out</i> 2.1	11/20/18 11:28
Released By York Sample Control	Date	Received By	Date

Received By	Date	Received in Subcontract Lab By	Date
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18K0809

YORK

Analytical Laboratories, Inc.

11/19/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody York Project No.: 18K0636

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York Ref: 18K0636-03

Analysis Needed	Date Due	Matrix: Soil Holding Time Expires	Date Sampled : 11/14/2018 10:00 Comments
PFAS in Soil by EPA 537m	12/04/2018 16:30	11/28/2018 10:00	
<i>Containers Supplied:</i> 10_250mL Plastic Cool to 4° C (B)			

York Ref: 18K0636-04

Analysis Needed	Date Due	Matrix: Soil Holding Time Expires	Date Sampled : 11/14/2018 10:15 Comments
PFAS in Soil by EPA 537m	12/04/2018 16:30	11/28/2018 10:15	
<i>Containers Supplied:</i> 10_250mL Plastic Cool to 4° C (B)			

York Ref: 18K0636-05

Analysis Needed	Date Due	Matrix: Soil Holding Time Expires	Date Sampled : 11/14/2018 11:14 Comments
PFAS in Soil by EPA 537m	12/04/2018 16:30	11/28/2018 11:14	
<i>Containers Supplied:</i> 10_250mL Plastic Cool to 4° C (B)			

York Purchase Order No.: 18K0636

Samples from State of: NY

Deliverables required: NYSDEC ASP B

Data Pkg DUE: 12/17/2018

EDDs required: NYSDEC EQUIS

Special Info:

Chain-of-Custody Information

Tom Gabrielson	11/19/2018	<i>Miss [Signature]</i>	<i>21°C</i>	11/20/18	1628
Released By York Sample Control	Date	Received By		Date	
Received By	Date	Received in Subcontract Lab By		Date	

YORK

18K0809

Analytical Laboratories, Inc.

11/19/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody
York Project No.: 18K0636

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York Ref: 18K0636-06

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Matrix:</u> Soil	<u>Holding Time Expires</u>	<u>Date Sampled :</u> 11/14/2018 11:20	<u>Comments</u>
PFAS in Soil by EPA 537m	12/04/2018 16:30		11/28/2018 11:20		

Containers Supplied:
10_250mL Plastic Cool to 4° C (B)

York Ref: 18K0636-07

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Matrix:</u> Soil	<u>Holding Time Expires</u>	<u>Date Sampled :</u> 11/14/2018 11:40	<u>Comments</u>
PFAS in Soil by EPA 537m	12/04/2018 16:30		11/28/2018 11:40		

Containers Supplied:
10_250mL Plastic Cool to 4° C (B)

York Ref: 18K0636-08

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Matrix:</u> Soil	<u>Holding Time Expires</u>	<u>Date Sampled :</u> 11/14/2018 12:18	<u>Comments</u>
PFAS in Soil by EPA 537m	12/04/2018 16:30		11/28/2018 12:18		

Containers Supplied:
10_250mL Plastic Cool to 4° C (B)

York Purchase Order No.: **18K0636**

Samples from State of: NY

Deliverables required: **NYSDEC ASP B**

Data Pkg DUE: 12/17/2018

EDDs required: **NYSDEC EQUIS**

Special Info:

Chain-of-Custody Information

<i>Tom Gabrielson</i>	11/19/2018	<i>[Signature]</i>	11/20/18 11:28
Released By York Sample Control	Date	Received By	Date
Received By	Date	Received in Subcontract Lab By	Date

YORK

Analytical Laboratories, Inc.

18K0809

11/19/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody York Project No.: 18K0636

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York Ref: 18K0636-09

09 **Sample ID: SB-73B** Matrix: Soil Date Sampled : 11/14/2018 12:37

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	12/04/2018 16:30	11/28/2018 12:37	

Containers Supplied:
10_250mL Plastic Cool to 4° C (B)

York Ref: 18K0636-10

16 **Sample ID: SB-73C** Matrix: Soil Date Sampled : 11/14/2018 12:45

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	12/04/2018 16:30	11/28/2018 12:45	

Containers Supplied:
10_250mL Plastic Cool to 4° C (B)

York Ref: 18K0636-11

11 **Sample ID: SB-74A** Matrix: Soil Date Sampled : 11/15/2018 08:21

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	12/04/2018 16:30	11/29/2018 08:21	

Containers Supplied:
10_250mL Plastic Cool to 4° C (B)

York Purchase Order No.: **18K0636**

Samples from State of: NY

Deliverables required: **NYSDEC ASP B**

Data Pkg DUE: 12/17/2018

EDDs required: **NYSDEC EQUIS**

Special Info:

Chain-of-Custody Information

<i>Tom Gabrielson</i>	11/19/2018	<i>[Signature]</i>	11/20/18 11:28
Released By York Sample Control	Date	Received By	Date
Received By	Date	Received in Subcontract Lab By	Date

18K0809

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11/19/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody

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York Ref: 18K0636-12

12 **Sample ID: SB-74B**

Matrix: Soil

Date Sampled : 11/15/2018 08:30

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	12/04/2018 16:30	11/29/2018 08:30	

Containers Supplied:

10_250mL Plastic Cool to 4° C (B)

York Ref: 18K0636-13

13 **Sample ID: SB-75A**

Matrix: Soil

Date Sampled : 11/15/2018 08:45

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	12/04/2018 16:30	11/29/2018 08:45	

Containers Supplied:

10_250mL Plastic Cool to 4° C (B)

York Ref: 18K0636-14

14 **Sample ID: SB-75B**

Matrix: Soil

Date Sampled : 11/15/2018 08:57

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	12/04/2018 16:30	11/29/2018 08:57	

Containers Supplied:

10_250mL Plastic Cool to 4° C (B)

York Purchase Order No.: **18K0636**

Samples from State of: NY

Deliverables required: **NYSDEC ASP B**

Data Pkg DUE: 12/17/2018

EDDs required: **NYSDEC EQUIS**

Special Info:

Chain-of-Custody Information

Tom Gabrielson

11/19/2018

Released By York Sample Control

Date

Mrs. J. G. 2.11
Received By

11/20/18 11:28
Date

Received By

Date

Received in Subcontract Lab By

Date

YORK

Analytical Laboratories, Inc.

18K0809

11/19/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody

York Project No.: 18K0636

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York Ref: 18K0636-15

Sample ID: SB-76A	Matrix: Soil	Date Sampled : 11/15/2018 09:40
<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>
PFAS in Soil by EPA 537m	12/04/2018 16:30	11/29/2018 09:40
<i>Containers Supplied:</i>		
10_250mL Plastic Cool to 4° C (B)		

York Ref: 18K0636-16

Sample ID: SB-76B	Matrix: Soil	Date Sampled : 11/15/2018 09:50
<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>
PFAS in Soil by EPA 537m	12/04/2018 16:30	11/29/2018 09:50
<i>Containers Supplied:</i>		
10_250mL Plastic Cool to 4° C (B)		

York Ref: 18K0636-17

Sample ID: SB-77A	Matrix: Soil	Date Sampled : 11/15/2018 11:31
<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>
PFAS in Soil by EPA 537m	12/04/2018 16:30	11/29/2018 11:31
<i>Containers Supplied:</i>		
10_250mL Plastic Cool to 4° C (B)		

York Purchase Order No.: 18K0636

Samples from State of: NY

Deliverables required: NYSDEC ASP B

Data Pkg DUE: 12/17/2018

EDDs required: NYSDEC EQUIS

Special Info:

Chain-of-Custody Information

Released By York Sample Control	Tom Gabrielson	11/19/2018	Received By	<i>[Signature]</i>	11/20/18	11/20/18
Received By		Date	Received in Subcontract Lab By		Date	

YORK

Analytical Laboratories, Inc.

18K0809

11/19/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody
York Project No.: 18K0636

This information is being sent to inform you that York intends to subcontract certain samples to another licensed laboratory for specific parameters that we cannot perform in-house. The specific parameters that will be subcontracted are detailed below. Do not contact the subcontract laboratory directly. Please contact the YORK project manager for further information.

Note: E-mail lab reports to: York_Lab_Report@yorklab.com **Mail/Fax Hard Copies to:** York Analytical at the address below

18 **Sample ID: SB-77B** York Ref: 18K0636-18
Matrix: Soil Date Sampled : 11/15/2018 11:45

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	12/04/2018 16:30	11/29/2018 11:45	

Containers Supplied:
 10_250mL Plastic Cool to 4° C (B)

19 **Sample ID: SB-77C** York Ref: 18K0636-19
Matrix: Soil Date Sampled : 11/15/2018 11:45

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	12/04/2018 16:30	11/29/2018 11:45	

Containers Supplied:
 10_250mL Plastic Cool to 4° C (B)

20 **Sample ID: Blank DUP 1114** York Ref: 18K0636-20
Matrix: Soil Date Sampled : 11/15/2018 11:14

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	12/04/2018 16:30	11/29/2018 11:14	

Containers Supplied:
 10_250mL Square Plastic Cool to 4° C (A)

York Purchase Order No.: 18K0636

Samples from State of: NY

Deliverables required: NYSDEC ASP B

Data Pkg DUE: 12/17/2018


EDDs required: NYSDEC EQUIS

Special Info:

Chain-of-Custody Information

<i>Tom Gabrielson</i>	11/19/2018	<i>[Signature]</i>	11/20/18 11:28
Released By York Sample Control	Date	Received By	Date
Received By	Date	Received in Subcontract Lab By	Date



773763406957 



Delivered
Tuesday 11/20/2018 at 4:28 pm



DELIVERED

Signed for by: N.POLLARD

GET STATUS UPDATES
OBTAIN PROOF OF DELIVERY

FROM
Stratford, CT US

TO
EAST LONGMEADOW, MA US

Shipment Facts

TRACKING NUMBER
773763406957

SERVICE
FedEx Standard Overnight

WEIGHT
10 lbs / 4.54 kgs

DIMENSIONS
12x9x8 in.

DELIVERED TO
Shipping/Receiving

TOTAL PIECES
1


TOTAL SHIPMENT WEIGHT
10 lbs / 4.54 kgs


TERMS
Shipper

SHIPPER REFERENCE
18K0636

PACKAGING
Your Packaging

SPECIAL HANDLING SECTION
Deliver Weekday

STANDARD TRANSIT

11/20/2018 by 3:00 pm

SHIP DATE

Mon 11/19/2018

ACTUAL DELIVERY
Tue 11/20/2018 4:28 pm

Travel History

Local Scan Time 

Tuesday, 11/20/2018

4:28 pm	EAST LONGMEADOW, MA	Delivered
3:23 pm	WINDSOR LOCKS, CT	On FedEx vehicle for delivery
12:47 pm	WINDSOR LOCKS, CT	Delivery exception Package at station, arrived after courier dispatch

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



con-test
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client York
 Received By RLF Date 11/20/18 Time 1628
 How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
 Direct from Sampling _____ Ambient _____ Melted Ice _____
 Were samples within Temperature? 2-6°C T By Gun # 0 Actual Temp - 21°C
 By Blank # _____ Actual Temp - _____
 Was Custody Seal Intact? NA Were Samples Tampered with? NA
 Was COC Relinquished? T Does Chain Agree With Samples? T
 Are there broken/leaking/loose caps on any samples? F
 Is COC in ink/ Legible? T Were samples received within holding time? T
 Did COC include all pertinent Information? Client T Analysis T Sampler Name T
 Project T ID's T Collection Dates/Times T
 Are Sample labels filled out and legible? T
 Are there Lab to Filters? F Who was notified? _____
 Are there Rushes? F Who was notified? _____
 Are there Short Holds? F Who was notified? _____
 Is there enough Volume? T
 Is there Headspace where applicable? NA MS/MSD? F
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? F On COC? F
 Do all samples have the proper pH? Acid NA Base NA

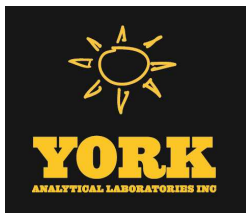
Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria	2oz Amb/Clear
DI-		Other Glass		Other Plastic	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Unused Media

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-		Other Plastic		Other Glass	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Comments:

DUP sample sent in, being added to 18K0809



Technical Report

prepared for:

Atlantic Environmental Solutions, Inc.
5 Marine View Plaza, Suite 303
Hoboken NJ, 07030
Attention: Seamus Kelly

Report Date: 11/30/2018
Client Project ID: 37321-STX 27-10 49th Ave
York Project (SDG) No.: 18K0528

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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@yorklab.com

Report Date: 11/30/2018
Client Project ID: 37321-STX 27-10 49th Ave
York Project (SDG) No.: 18K0528

Atlantic Environmental Solutions, Inc.
5 Marine View Plaza, Suite 303
Hoboken NJ, 07030
Attention: Seamus Kelly

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 November 14, 2018 and listed below. The project was identified as your project: **37321-STX 27-10 49th Ave.**

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>
18K0528-01	SB-56A	Soil	11/13/2018	11/14/2018
18K0528-02	SB-56B	Soil	11/13/2018	11/14/2018
18K0528-03	SB-56C	Soil	11/13/2018	11/14/2018
18K0528-04	SB-57A	Soil	11/13/2018	11/14/2018
18K0528-05	SB-57B	Soil	11/13/2018	11/14/2018
18K0528-06	SB-57C	Soil	11/13/2018	11/14/2018
18K0528-07	SB-58A	Soil	11/13/2018	11/14/2018
18K0528-08	SB-58B	Soil	11/13/2018	11/14/2018
18K0528-09	SB-58C	Soil	11/13/2018	11/14/2018
18K0528-10	SB-59A	Soil	11/13/2018	11/14/2018
18K0528-11	SB-59B	Soil	11/13/2018	11/14/2018
18K0528-12	SB-59C	Soil	11/13/2018	11/14/2018
18K0528-13	SB-60A	Soil	11/13/2018	11/14/2018
18K0528-14	SB-60B	Soil	11/13/2018	11/14/2018
18K0528-15	SB-60C	Soil	11/13/2018	11/14/2018
18K0528-16	SB-61A	Soil	11/13/2018	11/14/2018
18K0528-17	SB-61B	Soil	11/13/2018	11/14/2018
18K0528-18	SB-61C	Soil	11/13/2018	11/14/2018
18K0528-19	SB-62	Soil	11/13/2018	11/14/2018
18K0528-20	SB-63	Soil	11/13/2018	11/14/2018
18K0528-21	SB-64A	Soil	11/13/2018	11/14/2018
18K0528-22	SB-64B	Soil	11/13/2018	11/14/2018

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
18K0528-23	SB-65A	Soil	11/13/2018	11/14/2018
18K0528-24	SB-65B	Soil	11/13/2018	11/14/2018
18K0528-25	SB-66A	Soil	11/13/2018	11/14/2018
18K0528-26	SB-66B	Soil	11/13/2018	11/14/2018
18K0528-27	SB-67A	Soil	11/13/2018	11/14/2018
18K0528-28	SB-67B	Soil	11/13/2018	11/14/2018
18K0528-29	SB-68A	Soil	11/13/2018	11/14/2018
18K0528-30	SB-68B	Soil	11/13/2018	11/14/2018
18K0528-31	SB-69A	Soil	11/13/2018	11/14/2018
18K0528-32	SB-69B	Soil	11/13/2018	11/14/2018

General Notes for York Project (SDG) No.: 18K0528

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: 11/30/2018





Sample Information

Client Sample ID: SB-56A

York Sample ID: 18K0528-01

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
18K0528	37321-STX 27-10 49th Ave	Soil	November 13, 2018 8:17 am	11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:50	11/16/2018 20:19	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:50	11/16/2018 20:19	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:50	11/16/2018 20:19	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:50	11/16/2018 20:19	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:50	11/16/2018 20:19	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:50	11/16/2018 20:19	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:50	11/16/2018 20:19	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:50	11/16/2018 20:19	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:50	11/16/2018 20:19	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	57	110	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:50	11/16/2018 20:19	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:50	11/16/2018 20:19	LLJ
67-64-1	Acetone	11		ug/kg dry	5.7	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:50	11/16/2018 20:19	LLJ
71-43-2	Benzene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:50	11/16/2018 20:19	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:50	11/16/2018 20:19	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:50	11/16/2018 20:19	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:50	11/16/2018 20:19	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:50	11/16/2018 20:19	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:50	11/16/2018 20:19	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:50	11/16/2018 20:19	LLJ
75-09-2	Methylene chloride	20		ug/kg dry	5.7	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:50	11/16/2018 20:19	LLJ
91-20-3	Naphthalene	ND		ug/kg dry	2.8	11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:50	11/16/2018 20:19	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:50	11/16/2018 20:19	LLJ



Sample Information

Client Sample ID: SB-56A

York Sample ID: 18K0528-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 8:17 am

11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:50	11/16/2018 20:19	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 09:50	11/16/2018 20:19	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.7	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 09:50	11/16/2018 20:19	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:50	11/16/2018 20:19	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:50	11/16/2018 20:19	LLJ
127-18-4	Tetrachloroethylene	17		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:50	11/16/2018 20:19	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:50	11/16/2018 20:19	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:50	11/16/2018 20:19	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:50	11/16/2018 20:19	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:50	11/16/2018 20:19	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.5	17	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/16/2018 09:50	11/16/2018 20:19	LLJ
	Surrogate Recoveries	Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	95.8 %			77-125						
2037-26-5	Surrogate: SURR: Toluene-d8	99.5 %			85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	103 %			76-130						

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	47.2	94.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:16	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	47.2	94.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:16	SR
83-32-9	Acenaphthene	68.5	J	ug/kg dry	47.2	94.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:16	SR
208-96-8	Acenaphthylene	370		ug/kg dry	47.2	94.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:16	SR
120-12-7	Anthracene	304		ug/kg dry	47.2	94.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:16	SR
56-55-3	Benzo(a)anthracene	1590		ug/kg dry	47.2	94.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:16	SR



Sample Information

Client Sample ID: SB-56A

York Sample ID: 18K0528-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 8:17 am

11/14/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	1530		ug/kg dry	47.2	94.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:16	SR
205-99-2	Benzo(b)fluoranthene	1380		ug/kg dry	47.2	94.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:16	SR
191-24-2	Benzo(g,h,i)perylene	1090		ug/kg dry	47.2	94.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:16	SR
207-08-9	Benzo(k)fluoranthene	1230		ug/kg dry	47.2	94.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:16	SR
218-01-9	Chrysene	1560		ug/kg dry	47.2	94.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:16	SR
53-70-3	Dibenzo(a,h)anthracene	356	CCV-E	ug/kg dry	47.2	94.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:16	SR
132-64-9	Dibenzofuran	47.4	J	ug/kg dry	47.2	94.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:16	SR
206-44-0	Fluoranthene	2990		ug/kg dry	47.2	94.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:16	SR
86-73-7	Fluorene	85.1	J	ug/kg dry	47.2	94.2	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:16	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	47.2	94.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:16	SR
193-39-5	Indeno(1,2,3-cd)pyrene	1010		ug/kg dry	47.2	94.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:16	SR
91-20-3	Naphthalene	ND		ug/kg dry	47.2	94.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:16	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	47.2	94.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:16	SR
85-01-8	Phenanthrene	1470		ug/kg dry	47.2	94.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:16	SR
108-95-2	Phenol	ND		ug/kg dry	47.2	94.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:16	SR
129-00-0	Pyrene	2720		ug/kg dry	47.2	94.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:16	SR
Surrogate Recoveries		Result			Acceptance Range						
367-12-4	Surrogate: SURR: 2-Fluorophenol	70.1 %			20-108						
4165-62-2	Surrogate: SURR: Phenol-d5	70.4 %			23-114						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	59.0 %			22-108						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	78.5 %			21-113						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	143 %	S-08		19-110						
1718-51-0	Surrogate: SURR: Terphenyl-d14	114 %			24-116						

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB-56A

York Sample ID: 18K0528-01

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 8:17 am	<u>Date Received</u> 11/14/2018
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Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:01	TJD
72-55-9	4,4'-DDE	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:01	TJD
50-29-3	4,4'-DDT	124		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:01	TJD
309-00-2	Aldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:01	TJD
319-84-6	alpha-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:01	TJD
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/19/2018 07:31	11/21/2018 10:01	TJD
319-85-7	beta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:01	TJD
319-86-8	delta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:01	TJD
60-57-1	Dieldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:01	TJD
959-98-8	Endosulfan I	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:01	TJD
33213-65-9	Endosulfan II	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/19/2018 07:31	11/21/2018 10:01	TJD
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:01	TJD
72-20-8	Endrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:01	TJD
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:01	TJD
76-44-8	Heptachlor	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:01	TJD
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	114 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	63.1 %	30-150							

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 16:43	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 16:43	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 16:43	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 16:43	TJD



Sample Information

Client Sample ID: SB-56A

York Sample ID: 18K0528-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 8:17 am

11/14/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 16:43	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 16:43	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 16:43	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications:	11/19/2018 07:31	11/21/2018 16:43	TJD
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	54.5 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	40.8 %	30-140							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	6720		mg/kg dry	5.67	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:47	KML
7440-36-0	Antimony	ND		mg/kg dry	2.83	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:47	KML
7440-38-2	Arsenic	10.0		mg/kg dry	1.70	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:47	KML
7440-39-3	Barium	1540		mg/kg dry	2.83	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:47	KML
7440-41-7	Beryllium	0.683		mg/kg dry	0.057	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:47	KML
7440-43-9	Cadmium	1.34		mg/kg dry	0.340	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:47	KML
7440-70-2	Calcium	55100		mg/kg dry	5.67	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:47	KML
7440-47-3	Chromium	25.0		mg/kg dry	0.567	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:47	KML
7440-48-4	Cobalt	8.94		mg/kg dry	0.453	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:47	KML
7440-50-8	Copper	76.4		mg/kg dry	2.27	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:47	KML
7439-89-6	Iron	13500		mg/kg dry	28.3	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:47	KML
7439-92-1	Lead	896		mg/kg dry	0.567	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:47	KML
7439-95-4	Magnesium	4540		mg/kg dry	5.67	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:47	KML



Sample Information

Client Sample ID: SB-56A

York Sample ID: 18K0528-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 8:17 am

11/14/2018

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	303		mg/kg dry	0.567	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:47	KML
7440-02-0	Nickel	18.3		mg/kg dry	1.13	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:47	KML
7440-09-7	Potassium	1620		mg/kg dry	5.67	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:47	KML
7782-49-2	Selenium	ND		mg/kg dry	2.83	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:47	KML
7440-22-4	Silver	ND		mg/kg dry	0.567	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:47	KML
7440-23-5	Sodium	522		mg/kg dry	56.7	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:47	KML
7440-28-0	Thallium	ND		mg/kg dry	2.83	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:47	KML
7440-62-2	Vanadium	20.0		mg/kg dry	1.13	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:47	KML
7440-66-6	Zinc	1330		mg/kg dry	2.83	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:47	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.719		mg/kg dry	0.0340	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/15/2018 09:32	11/15/2018 11:45	SY

Total Solids

Log-in Notes:

Sample Notes:

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	88.2		%	0.100	1	SM 2540G Certifications: CTDOH	11/16/2018 20:19	11/19/2018 16:23	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	2.72		mg/kg dry	0.567	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/19/2018 08:40	11/19/2018 17:00	MAC

Chromium, Trivalent

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB-56A

York Sample ID: 18K0528-01

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 8:17 am	<u>Date Received</u> 11/14/2018
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Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	22.3		mg/kg	0.500	1	Calculation	11/30/2018 14:23	11/30/2018 14:34	PAM

Certifications:

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	0.776		mg/kg dry	0.567	1	EPA 9014/9010C	11/20/2018 08:34	11/20/2018 14:50	JTV

Certifications: NELAC-NY10854,C'TDOH,NJDEP,PADEP

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:17		
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:17		
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:17		
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:17		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:17		
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:17		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:17		
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:17		
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:17		
	NMeFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:17		
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:17		
	NEtFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:17		
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:17		
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:17		
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:17		



Sample Information

Client Sample ID: SB-56A

York Sample ID: 18K0528-01

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 8:17 am	<u>Date Received</u> 11/14/2018
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Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries		Result	Acceptance Range							
	Surrogate: 13C-PFHxA	%		70-130						
	Surrogate: 13C-PFDA	%		70-130						
	Surrogate: d5-NEtFOSAA	%		70-130						

Sample Information

Client Sample ID: SB-56B

York Sample ID: 18K0528-02

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 8:37 am	<u>Date Received</u> 11/14/2018
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Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:18	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:18	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:18	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND	IS-LO	ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:18	LLJ
95-50-1	1,2-Dichlorobenzene	ND	IS-LO	ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:18	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:18	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND	IS-LO	ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:18	LLJ
541-73-1	1,3-Dichlorobenzene	ND	IS-LO	ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:18	LLJ
106-46-7	1,4-Dichlorobenzene	ND	IS-LO	ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:18	LLJ
123-91-1	1,4-Dioxane	ND	IS-LO	ug/kg dry	57	110	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:18	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:18	LLJ
67-64-1	Acetone	27		ug/kg dry	5.7	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:18	LLJ



Sample Information

Client Sample ID: SB-56B

York Sample ID: 18K0528-02

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 8:37 am	<u>Date Received</u> 11/14/2018
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Volatile Organics, NYSDEC Part 375 List

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
71-43-2	Benzene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:18	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:18	LLJ
108-90-7	Chlorobenzene	ND	IS-LO	ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:18	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:18	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:18	LLJ
100-41-4	Ethyl Benzene	ND	IS-LO	ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:18	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:18	LLJ
75-09-2	Methylene chloride	15		ug/kg dry	5.7	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:18	LLJ
91-20-3	Naphthalene	16	IS-LO, B	ug/kg dry	2.8	11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:18	LLJ
104-51-8	n-Butylbenzene	ND	IS-LO	ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:18	LLJ
103-65-1	n-Propylbenzene	ND	IS-LO	ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:18	LLJ
95-47-6	o-Xylene	ND	IS-LO	ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 07:30	11/17/2018 01:18	LLJ
179601-23-1	p- & m- Xylenes	ND	IS-LO	ug/kg dry	5.7	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 07:30	11/17/2018 01:18	LLJ
135-98-8	sec-Butylbenzene	ND	IS-LO	ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:18	LLJ
98-06-6	tert-Butylbenzene	ND	IS-LO	ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:18	LLJ
127-18-4	Tetrachloroethylene	14000		ug/kg dry	280	570	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/19/2018 09:55	11/19/2018 15:46	LLJ
108-88-3	Toluene	ND	IS-LO	ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:18	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:18	LLJ
79-01-6	Trichloroethylene	32	IS-LO	ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:18	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:18	LLJ
1330-20-7	Xylenes, Total	ND	IS-LO	ug/kg dry	8.5	17	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/16/2018 07:30	11/17/2018 01:18	LLJ

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	105 %	77-125
2037-26-5	Surrogate: SURRE: Toluene-d8	165 %	85-120
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	132 %	76-130



Sample Information

Client Sample ID: SB-56B

York Sample ID: 18K0528-02

York Project (SDG) No.

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Soil

November 13, 2018 8:37 am

11/14/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	47.3	94.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:48	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	47.3	94.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:48	SR
83-32-9	Acenaphthene	56.6	J	ug/kg dry	47.3	94.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:48	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	47.3	94.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:48	SR
120-12-7	Anthracene	151		ug/kg dry	47.3	94.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:48	SR
56-55-3	Benzo(a)anthracene	415		ug/kg dry	47.3	94.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:48	SR
50-32-8	Benzo(a)pyrene	370		ug/kg dry	47.3	94.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:48	SR
205-99-2	Benzo(b)fluoranthene	340		ug/kg dry	47.3	94.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:48	SR
191-24-2	Benzo(g,h,i)perylene	278		ug/kg dry	47.3	94.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:48	SR
207-08-9	Benzo(k)fluoranthene	289		ug/kg dry	47.3	94.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:48	SR
218-01-9	Chrysene	434		ug/kg dry	47.3	94.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:48	SR
53-70-3	Dibenzo(a,h)anthracene	70.1	CCV-E, J	ug/kg dry	47.3	94.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:48	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	47.3	94.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:48	SR
206-44-0	Fluoranthene	926		ug/kg dry	47.3	94.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:48	SR
86-73-7	Fluorene	58.8	J	ug/kg dry	47.3	94.3	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:48	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	47.3	94.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:48	SR
193-39-5	Indeno(1,2,3-cd)pyrene	210		ug/kg dry	47.3	94.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:48	SR
91-20-3	Naphthalene	ND		ug/kg dry	47.3	94.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:48	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	47.3	94.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:48	SR
85-01-8	Phenanthrene	826		ug/kg dry	47.3	94.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:48	SR
108-95-2	Phenol	ND		ug/kg dry	47.3	94.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:48	SR
129-00-0	Pyrene	952		ug/kg dry	47.3	94.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 16:48	SR



Sample Information

Client Sample ID: SB-56B

York Sample ID: 18K0528-02

York Project (SDG) No.

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37321-STX 27-10 49th Ave

Soil

November 13, 2018 8:37 am

11/14/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries		Result			Acceptance Range						
367-12-4	Surrogate: SURR: 2-Fluorophenol	60.4 %			20-108						
4165-62-2	Surrogate: SURR: Phenol-d5	59.2 %			23-114						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	48.1 %			22-108						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	64.2 %			21-113						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	111 %	S-08		19-110						
1718-51-0	Surrogate: SURR: Terphenyl-d14	93.5 %			24-116						

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst	
72-54-8	4,4'-DDD	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:16	TJD	
72-55-9	4,4'-DDE	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:16	TJD	
50-29-3	4,4'-DDT	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:16	TJD	
309-00-2	Aldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:16	TJD	
319-84-6	alpha-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:16	TJD	
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/19/2018 07:31	11/21/2018 10:16	TJD	
319-85-7	beta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:16	TJD	
319-86-8	delta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:16	TJD	
60-57-1	Dieldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:16	TJD	
959-98-8	Endosulfan I	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:16	TJD	
33213-65-9	Endosulfan II	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/19/2018 07:31	11/21/2018 10:16	TJD	
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:16	TJD	
72-20-8	Endrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:16	TJD	
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:16	TJD	
76-44-8	Heptachlor	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:16	TJD	
Surrogate Recoveries		Result			Acceptance Range						
2051-24-3	Surrogate: Decachlorobiphenyl	68.0 %			30-150						



Sample Information

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Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
877-09-8	Surrogate: Tetrachloro-m-xylene	50.8 %			30-150					

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 16:56	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 16:56	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 16:56	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 16:56	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 16:56	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 16:56	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 16:56	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications:	11/19/2018 07:31	11/21/2018 16:56	TJD

Surrogate Recoveries

Result

Acceptance Range

877-09-8	Surrogate: Tetrachloro-m-xylene	66.8 %	30-140
2051-24-3	Surrogate: Decachlorobiphenyl	52.7 %	30-140

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	2680		mg/kg dry	5.67	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:49	KML
7440-36-0	Antimony	3.33		mg/kg dry	2.84	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:49	KML
7440-38-2	Arsenic	11.8		mg/kg dry	1.70	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:49	KML
7440-39-3	Barium	89.9		mg/kg dry	2.84	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:49	KML
7440-41-7	Beryllium	0.167		mg/kg dry	0.057	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:49	KML
7440-43-9	Cadmium	0.783		mg/kg dry	0.340	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:49	KML



Sample Information

Client Sample ID: SB-56B

York Sample ID: 18K0528-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 8:37 am

11/14/2018

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	Calcium	21100		mg/kg dry	5.67	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:49	KML
7440-47-3	Chromium	7.81		mg/kg dry	0.567	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:49	KML
7440-48-4	Cobalt	4.01		mg/kg dry	0.454	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:49	KML
7440-50-8	Copper	481		mg/kg dry	2.27	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:49	KML
7439-89-6	Iron	15400		mg/kg dry	28.4	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:49	KML
7439-92-1	Lead	430		mg/kg dry	0.567	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:49	KML
7439-95-4	Magnesium	4660		mg/kg dry	5.67	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:49	KML
7439-96-5	Manganese	111		mg/kg dry	0.567	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:49	KML
7440-02-0	Nickel	24.6		mg/kg dry	1.13	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:49	KML
7440-09-7	Potassium	447		mg/kg dry	5.67	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:49	KML
7782-49-2	Selenium	ND		mg/kg dry	2.84	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:49	KML
7440-22-4	Silver	ND		mg/kg dry	0.567	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:49	KML
7440-23-5	Sodium	816		mg/kg dry	56.7	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:49	KML
7440-28-0	Thallium	ND		mg/kg dry	2.84	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:49	KML
7440-62-2	Vanadium	14.7		mg/kg dry	1.13	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:49	KML
7440-66-6	Zinc	315		mg/kg dry	2.84	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:49	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.375		mg/kg dry	0.0340	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/15/2018 09:32	11/15/2018 11:57	SY

Total Solids

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB-56B

York Sample ID: 18K0528-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 8:37 am

11/14/2018

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	88.1		%	0.100	1	SM 2540G	11/19/2018 12:52	11/19/2018 16:23	TAJ
							Certifications: CTDOH			

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.567	1	EPA 7196A	11/19/2018 08:40	11/19/2018 17:00	MAC
							Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP			

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	7.81		mg/kg	0.500	1	Calculation	11/30/2018 14:23	11/30/2018 14:34	PAM
							Certifications:			

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	1.13		mg/kg dry	0.567	1	EPA 9014/9010C	11/20/2018 08:34	11/20/2018 14:50	JTV
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:37		
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:37		
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:37		
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:37		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:37		
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:37		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:37		



Sample Information

Client Sample ID: SB-56B

York Sample ID: 18K0528-02

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 8:37 am	<u>Date Received</u> 11/14/2018
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Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:37		
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:37		
	NMeFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:37		
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:37		
	NEtFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:37		
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:37		
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:37		
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:37		
Surrogate Recoveries		Result	Acceptance Range							
	Surrogate: 13C-PFHxA	%	70-130							
	Surrogate: 13C-PFDA	%	70-130							
	Surrogate: d5-NEtFOSAA	%	70-130							

Sample Information

Client Sample ID: SB-56C

York Sample ID: 18K0528-03

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 8:45 am	<u>Date Received</u> 11/14/2018
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Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:48	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:48	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:48	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND	IS-LO	ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:48	LLJ



Sample Information

Client Sample ID: SB-56C

York Sample ID: 18K0528-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 8:45 am

11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
95-50-1	1,2-Dichlorobenzene	ND	IS-LO	ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:48	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:48	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND	IS-LO	ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:48	LLJ
541-73-1	1,3-Dichlorobenzene	ND	IS-LO	ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:48	LLJ
106-46-7	1,4-Dichlorobenzene	ND	IS-LO	ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:48	LLJ
123-91-1	1,4-Dioxane	ND	IS-LO	ug/kg dry	57	110	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:48	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:48	LLJ
67-64-1	Acetone	8.2	J	ug/kg dry	5.7	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:48	LLJ
71-43-2	Benzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:48	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:48	LLJ
108-90-7	Chlorobenzene	ND	IS-LO	ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:48	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:48	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:48	LLJ
100-41-4	Ethyl Benzene	ND	IS-LO	ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:48	LLJ
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,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:48	LLJ
75-09-2	Methylene chloride	ND		ug/kg dry	5.7	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:48	LLJ
91-20-3	Naphthalene	5.9	IS-LO, J, B	ug/kg dry	2.9	11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:48	LLJ
104-51-8	n-Butylbenzene	ND	IS-LO	ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:48	LLJ
103-65-1	n-Propylbenzene	ND	IS-LO	ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:48	LLJ
95-47-6	o-Xylene	ND	IS-LO	ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 07:30	11/17/2018 01:48	LLJ
179601-23-1	p- & m- Xylenes	ND	IS-LO	ug/kg dry	5.7	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 07:30	11/17/2018 01:48	LLJ
135-98-8	sec-Butylbenzene	ND	IS-LO	ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:48	LLJ
98-06-6	tert-Butylbenzene	ND	IS-LO	ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:48	LLJ



Sample Information

Client Sample ID: SB-56C

York Sample ID: 18K0528-03

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 8:45 am	<u>Date Received</u> 11/14/2018
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Volatile Organics, NYSDEC Part 375 List

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
127-18-4	Tetrachloroethylene	95	IS-LO	ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:48	LLJ
108-88-3	Toluene	ND	IS-LO	ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:48	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:48	LLJ
79-01-6	Trichloroethylene	ND	IS-LO	ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:48	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 01:48	LLJ
1330-20-7	Xylenes, Total	ND	IS-LO	ug/kg dry	8.6	17	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/16/2018 07:30	11/17/2018 01:48	LLJ
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	95.7 %				77-125					
2037-26-5	Surrogate: SURR: Toluene-d8	146 %	S-08			85-120					
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	99.8 %				76-130					

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	48.0	95.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:21	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	48.0	95.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:21	SR
83-32-9	Acenaphthene	ND		ug/kg dry	48.0	95.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:21	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	48.0	95.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:21	SR
120-12-7	Anthracene	ND		ug/kg dry	48.0	95.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:21	SR
56-55-3	Benzo(a)anthracene	95.7		ug/kg dry	48.0	95.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:21	SR
50-32-8	Benzo(a)pyrene	86.5	J	ug/kg dry	48.0	95.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:21	SR
205-99-2	Benzo(b)fluoranthene	75.0	J	ug/kg dry	48.0	95.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:21	SR
191-24-2	Benzo(g,h,i)perylene	60.5	J	ug/kg dry	48.0	95.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:21	SR
207-08-9	Benzo(k)fluoranthene	67.3	J	ug/kg dry	48.0	95.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:21	SR
218-01-9	Chrysene	98.7		ug/kg dry	48.0	95.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:21	SR



Sample Information

Client Sample ID: SB-56C

York Sample ID: 18K0528-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 8:45 am

11/14/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	48.0	95.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:21	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	48.0	95.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:21	SR
206-44-0	Fluoranthene	191		ug/kg dry	48.0	95.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:21	SR
86-73-7	Fluorene	ND		ug/kg dry	48.0	95.7	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:21	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	48.0	95.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:21	SR
193-39-5	Indeno(1,2,3-cd)pyrene	51.3	J	ug/kg dry	48.0	95.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:21	SR
91-20-3	Naphthalene	ND		ug/kg dry	48.0	95.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:21	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	48.0	95.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:21	SR
85-01-8	Phenanthrene	144		ug/kg dry	48.0	95.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:21	SR
108-95-2	Phenol	ND		ug/kg dry	48.0	95.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:21	SR
129-00-0	Pyrene	195		ug/kg dry	48.0	95.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:21	SR
Surrogate Recoveries		Result			Acceptance Range						
367-12-4	Surrogate: SURR: 2-Fluorophenol	48.1 %			20-108						
4165-62-2	Surrogate: SURR: Phenol-d5	46.6 %			23-114						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	39.4 %			22-108						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	46.7 %			21-113						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	93.7 %			19-110						
1718-51-0	Surrogate: SURR: Terphenyl-d14	72.9 %			24-116						

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:31	TJD
72-55-9	4,4'-DDE	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:31	TJD
50-29-3	4,4'-DDT	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:31	TJD
309-00-2	Aldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:31	TJD
319-84-6	alpha-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:31	TJD



Sample Information

Client Sample ID: SB-56C

York Sample ID: 18K0528-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 8:45 am

11/14/2018

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/19/2018 07:31	11/21/2018 10:31	TJD
319-85-7	beta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:31	TJD
319-86-8	delta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:31	TJD
60-57-1	Dieldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:31	TJD
959-98-8	Endosulfan I	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:31	TJD
33213-65-9	Endosulfan II	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/19/2018 07:31	11/21/2018 10:31	TJD
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:31	TJD
72-20-8	Endrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:31	TJD
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:31	TJD
76-44-8	Heptachlor	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:31	TJD
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	54.9 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	50.4 %	30-150							

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 17:10	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 17:10	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 17:10	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 17:10	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 17:10	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 17:10	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 17:10	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications:	11/19/2018 07:31	11/21/2018 17:10	TJD
Surrogate Recoveries		Result	Acceptance Range							



Sample Information

Client Sample ID: SB-56C

York Sample ID: 18K0528-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 8:45 am

11/14/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
877-09-8	Surrogate: Tetrachloro-m-xylene	49.0 %			30-140					
2051-24-3	Surrogate: Decachlorobiphenyl	33.8 %			30-140					

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	6610		mg/kg dry	5.74	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:51	KML
7440-36-0	Antimony	ND		mg/kg dry	2.87	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:51	KML
7440-38-2	Arsenic	2.28		mg/kg dry	1.72	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:51	KML
7440-39-3	Barium	85.2		mg/kg dry	2.87	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:51	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.057	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:51	KML
7440-43-9	Cadmium	2.42		mg/kg dry	0.344	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:51	KML
7440-70-2	Calcium	16100		mg/kg dry	5.74	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:51	KML
7440-47-3	Chromium	12.1		mg/kg dry	0.574	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:51	KML
7440-48-4	Cobalt	8.14		mg/kg dry	0.459	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:51	KML
7440-50-8	Copper	45.0		mg/kg dry	2.30	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:51	KML
7439-89-6	Iron	20800		mg/kg dry	28.7	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:51	KML
7439-92-1	Lead	200		mg/kg dry	0.574	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:51	KML
7439-95-4	Magnesium	6450		mg/kg dry	5.74	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:51	KML
7439-96-5	Manganese	360		mg/kg dry	0.574	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:51	KML
7440-02-0	Nickel	20.8		mg/kg dry	1.15	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:51	KML
7440-09-7	Potassium	1870		mg/kg dry	5.74	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:51	KML
7782-49-2	Selenium	ND		mg/kg dry	2.87	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:51	KML
7440-22-4	Silver	ND		mg/kg dry	0.574	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:51	KML



Sample Information

Client Sample ID: SB-56C

York Sample ID: 18K0528-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 8:45 am

11/14/2018

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	Sodium	519		mg/kg dry	57.4	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:51	KML
7440-28-0	Thallium	ND		mg/kg dry	2.87	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:51	KML
7440-62-2	Vanadium	19.1		mg/kg dry	1.15	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:51	KML
7440-66-6	Zinc	354		mg/kg dry	2.87	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:51	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.298		mg/kg dry	0.0344	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/15/2018 09:32	11/15/2018 12:05	SY

Total Solids

Log-in Notes:

Sample Notes:

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	87.1		%	0.100	1	SM 2540G Certifications: CTDOH	11/19/2018 12:52	11/19/2018 16:23	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.574	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/19/2018 08:40	11/19/2018 17:00	MAC

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	12.1		mg/kg	0.500	1	Calculation Certifications:	11/30/2018 14:23	11/30/2018 14:34	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.574	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 08:34	11/20/2018 14:50	JTV



Sample Information

Client Sample ID: SB-56C

York Sample ID: 18K0528-03

York Project (SDG) No.

Client Project ID

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Collection Date/Time

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18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 8:45 am

11/14/2018

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:45		
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:45		
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:45		
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:45		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:45		
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:45		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:45		
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:45		
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:45		
	NMeFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:45		
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:45		
	NEtFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:45		
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:45		
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:45		
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:45		
	Surrogate Recoveries	Result		Acceptance Range						
	Surrogate: 13C-PFHxA	%		70-130						
	Surrogate: 13C-PFDA	%		70-130						
	Surrogate: d5-NEtFOSAA	%		70-130						



Sample Information

Client Sample ID: SB-57A

York Sample ID: 18K0528-04

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 8:50 am	<u>Date Received</u> 11/14/2018
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Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:17	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:17	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:17	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:17	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:17	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:17	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:17	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:17	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:17	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	56	110	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:17	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:17	LLJ
67-64-1	Acetone	10	J	ug/kg dry	5.6	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:17	LLJ
71-43-2	Benzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:17	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:17	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:17	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:17	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:17	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:17	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:17	LLJ
75-09-2	Methylene chloride	16		ug/kg dry	5.6	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:17	LLJ
91-20-3	Naphthalene	ND		ug/kg dry	2.8	11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:17	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:17	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:17	LLJ



Sample Information

Client Sample ID: SB-57A

York Sample ID: 18K0528-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 8:50 am

11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
95-47-6	o-Xylene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 07:30	11/17/2018 02:17	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.6	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 07:30	11/17/2018 02:17	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:17	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:17	LLJ
127-18-4	Tetrachloroethylene	13		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:17	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:17	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:17	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:17	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:17	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.4	17	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/16/2018 07:30	11/17/2018 02:17	LLJ
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	97.5 %	77-125								
2037-26-5	Surrogate: SURR: Toluene-d8	102 %	85-120								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	113 %	76-130								

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	46.4	92.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:53	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	46.4	92.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:53	SR
83-32-9	Acenaphthene	ND		ug/kg dry	46.4	92.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:53	SR
208-96-8	Acenaphthylene	147		ug/kg dry	46.4	92.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:53	SR
120-12-7	Anthracene	108		ug/kg dry	46.4	92.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:53	SR
56-55-3	Benzo(a)anthracene	486		ug/kg dry	46.4	92.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:53	SR
50-32-8	Benzo(a)pyrene	478		ug/kg dry	46.4	92.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:53	SR



Sample Information

Client Sample ID: SB-57A

York Sample ID: 18K0528-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 8:50 am

11/14/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
205-99-2	Benzo(b)fluoranthene	462		ug/kg dry	46.4	92.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:53	SR
191-24-2	Benzo(g,h,i)perylene	376		ug/kg dry	46.4	92.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:53	SR
207-08-9	Benzo(k)fluoranthene	419		ug/kg dry	46.4	92.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:53	SR
218-01-9	Chrysene	513		ug/kg dry	46.4	92.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:53	SR
53-70-3	Dibenzo(a,h)anthracene	129	CCV-E	ug/kg dry	46.4	92.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:53	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	46.4	92.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:53	SR
206-44-0	Fluoranthene	984		ug/kg dry	46.4	92.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:53	SR
86-73-7	Fluorene	ND		ug/kg dry	46.4	92.6	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:53	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	46.4	92.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:53	SR
193-39-5	Indeno(1,2,3-cd)pyrene	345		ug/kg dry	46.4	92.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:53	SR
91-20-3	Naphthalene	ND		ug/kg dry	46.4	92.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:53	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	46.4	92.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:53	SR
85-01-8	Phenanthrene	489		ug/kg dry	46.4	92.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:53	SR
108-95-2	Phenol	ND		ug/kg dry	46.4	92.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:53	SR
129-00-0	Pyrene	935		ug/kg dry	46.4	92.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 13:06	11/20/2018 17:53	SR

Surrogate Recoveries

Result

Acceptance Range

367-12-4	Surrogate: SURRE: 2-Fluorophenol	56.1 %	20-108
4165-62-2	Surrogate: SURRE: Phenol-d5	55.6 %	23-114
4165-60-0	Surrogate: SURRE: Nitrobenzene-d5	46.2 %	22-108
321-60-8	Surrogate: SURRE: 2-Fluorobiphenyl	61.8 %	21-113
118-79-6	Surrogate: SURRE: 2,4,6-Tribromophenol	95.7 %	19-110
1718-51-0	Surrogate: SURRE: Terphenyl-d14	95.1 %	24-116

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

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: SB-57A

York Sample ID: 18K0528-04

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 8:50 am	<u>Date Received</u> 11/14/2018
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Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:46	TJD
72-55-9	4,4'-DDE	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:46	TJD
50-29-3	4,4'-DDT	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:46	TJD
309-00-2	Aldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:46	TJD
319-84-6	alpha-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:46	TJD
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/19/2018 07:31	11/21/2018 10:46	TJD
319-85-7	beta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:46	TJD
319-86-8	delta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:46	TJD
60-57-1	Dieldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:46	TJD
959-98-8	Endosulfan I	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:46	TJD
33213-65-9	Endosulfan II	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/19/2018 07:31	11/21/2018 10:46	TJD
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:46	TJD
72-20-8	Endrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:46	TJD
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:46	TJD
76-44-8	Heptachlor	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 10:46	TJD
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	71.9 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	68.5 %	30-150							

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 17:23	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 17:23	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 17:23	TJD



Sample Information

Client Sample ID: SB-57A

York Sample ID: 18K0528-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 8:50 am

11/14/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 17:23	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 17:23	TJD
11097-69-1	Aroclor 1254	0.0666		mg/kg dry	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 17:23	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 17:23	TJD
1336-36-3	* Total PCBs	0.0666		mg/kg dry	0.0186	1	EPA 8082A Certifications:	11/19/2018 07:31	11/21/2018 17:23	TJD
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	56.4 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	42.3 %	30-140							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	4020		mg/kg dry	5.57	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:53	KML
7440-36-0	Antimony	ND		mg/kg dry	2.79	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:53	KML
7440-38-2	Arsenic	13.0		mg/kg dry	1.67	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:53	KML
7440-39-3	Barium	945		mg/kg dry	2.79	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:53	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.056	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:53	KML
7440-43-9	Cadmium	0.749		mg/kg dry	0.334	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:53	KML
7440-70-2	Calcium	61100		mg/kg dry	5.57	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:53	KML
7440-47-3	Chromium	9.71		mg/kg dry	0.557	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:53	KML
7440-48-4	Cobalt	6.51		mg/kg dry	0.446	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:53	KML
7440-50-8	Copper	16.0		mg/kg dry	2.23	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:53	KML
7439-89-6	Iron	8650		mg/kg dry	27.9	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:53	KML
7439-92-1	Lead	627		mg/kg dry	0.557	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:53	KML



Sample Information

Client Sample ID: SB-57A

York Sample ID: 18K0528-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 8:50 am

11/14/2018

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	Magnesium	4380		mg/kg dry	5.57	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:53	KML
7439-96-5	Manganese	232		mg/kg dry	0.557	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:53	KML
7440-02-0	Nickel	10.4		mg/kg dry	1.11	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:53	KML
7440-09-7	Potassium	937		mg/kg dry	5.57	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:53	KML
7782-49-2	Selenium	ND		mg/kg dry	2.79	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:53	KML
7440-22-4	Silver	ND		mg/kg dry	0.557	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:53	KML
7440-23-5	Sodium	253		mg/kg dry	55.7	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:53	KML
7440-28-0	Thallium	ND		mg/kg dry	2.79	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:53	KML
7440-62-2	Vanadium	11.0		mg/kg dry	1.11	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:53	KML
7440-66-6	Zinc	803		mg/kg dry	2.79	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:53	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.380		mg/kg dry	0.0334	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/15/2018 09:32	11/15/2018 12:13	SY

Total Solids

Log-in Notes:

Sample Notes:

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	89.7		%	0.100	1	SM 2540G Certifications: CTDOH	11/19/2018 12:52	11/19/2018 16:23	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.557	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/19/2018 08:40	11/19/2018 17:00	MAC



Sample Information

Client Sample ID: SB-57A

York Sample ID: 18K0528-04

York Project (SDG) No.

Client Project ID

Matrix

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Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 8:50 am

11/14/2018

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	9.71		mg/kg	0.500	1	Calculation	11/30/2018 14:23	11/30/2018 14:34	PAM
Certifications:										

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	0.607		mg/kg dry	0.557	1	EPA 9014/9010C	11/20/2018 08:34	11/20/2018 14:50	JTV
Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP										

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:50		
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:50		
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:50		
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:50		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:50		
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:50		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:50		
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:50		
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:50		
	NMeFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:50		
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:50		
	NEtFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:50		
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:50		
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:50		



Sample Information

Client Sample ID: SB-57A

York Sample ID: 18K0528-04

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 8:50 am	<u>Date Received</u> 11/14/2018
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Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 08:50		
	Surrogate Recoveries	Result					Acceptance Range			
	Surrogate: 13C-PFHxA	%					70-130			
	Surrogate: 13C-PFDA	%					70-130			
	Surrogate: d5-NEtFOSAA	%					70-130			

Sample Information

Client Sample ID: SB-57B

York Sample ID: 18K0528-05

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 9:16 am	<u>Date Received</u> 11/14/2018
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Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:48	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:48	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:48	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:48	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:48	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:48	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:48	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:48	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:48	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	59	120	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:48	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:48	LLJ



Sample Information

Client Sample ID: SB-57B

York Sample ID: 18K0528-05

York Project (SDG) No.

Client Project ID

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18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 9:16 am

11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
67-64-1	Acetone	7.4	J	ug/kg dry	5.9	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:48	LLJ
71-43-2	Benzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:48	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:48	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:48	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:48	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:48	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:48	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:48	LLJ
75-09-2	Methylene chloride	13		ug/kg dry	5.9	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:48	LLJ
91-20-3	Naphthalene	3.8	J, B	ug/kg dry	2.9	12	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:48	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:48	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:48	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 07:30	11/17/2018 02:48	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.9	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 07:30	11/17/2018 02:48	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:48	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:48	LLJ
127-18-4	Tetrachloroethylene	100		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:48	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:48	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:48	LLJ
79-01-6	Trichloroethylene	3.0	J	ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:48	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 02:48	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.8	18	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/16/2018 07:30	11/17/2018 02:48	LLJ
	Surrogate Recoveries	Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	97.5 %			77-125						



Sample Information

Client Sample ID: SB-57B

York Sample ID: 18K0528-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 9:16 am

11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
2037-26-5	Surrogate: SURR: Toluene-d8	118 %			85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	123 %			76-130						

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	48.9	97.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:00	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	48.9	97.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:00	KH
83-32-9	Acenaphthene	ND		ug/kg dry	48.9	97.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:00	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	48.9	97.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:00	KH
120-12-7	Anthracene	56.9	J	ug/kg dry	48.9	97.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:00	KH
56-55-3	Benzo(a)anthracene	222		ug/kg dry	48.9	97.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:00	KH
50-32-8	Benzo(a)pyrene	214		ug/kg dry	48.9	97.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:00	KH
205-99-2	Benzo(b)fluoranthene	207		ug/kg dry	48.9	97.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:00	KH
191-24-2	Benzo(g,h,i)perylene	166		ug/kg dry	48.9	97.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:00	KH
207-08-9	Benzo(k)fluoranthene	185		ug/kg dry	48.9	97.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:00	KH
218-01-9	Chrysene	243		ug/kg dry	48.9	97.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:00	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	48.9	97.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:00	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	48.9	97.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:00	KH
206-44-0	Fluoranthene	423		ug/kg dry	48.9	97.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:00	KH
86-73-7	Fluorene	ND		ug/kg dry	48.9	97.5	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:00	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	48.9	97.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:00	KH
193-39-5	Indeno(1,2,3-cd)pyrene	162		ug/kg dry	48.9	97.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:00	KH
91-20-3	Naphthalene	ND		ug/kg dry	48.9	97.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:00	KH



Sample Information

Client Sample ID: SB-57B

York Sample ID: 18K0528-05

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 9:16 am	<u>Date Received</u> 11/14/2018
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Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-86-5	Pentachlorophenol	ND		ug/kg dry	48.9	97.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:00	KH
85-01-8	Phenanthrene	319		ug/kg dry	48.9	97.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:00	KH
108-95-2	Phenol	ND		ug/kg dry	48.9	97.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:00	KH
129-00-0	Pyrene	452		ug/kg dry	48.9	97.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:00	KH
Surrogate Recoveries		Result			Acceptance Range						
367-12-4	Surrogate: SURR: 2-Fluorophenol	70.9 %			20-108						
4165-62-2	Surrogate: SURR: Phenol-d5	72.9 %			23-114						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	69.2 %			22-108						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	84.2 %			21-113						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	73.1 %			19-110						
1718-51-0	Surrogate: SURR: Terphenyl-d14	89.9 %			24-116						

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:01	TJD
72-55-9	4,4'-DDE	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:01	TJD
50-29-3	4,4'-DDT	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:01	TJD
309-00-2	Aldrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:01	TJD
319-84-6	alpha-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:01	TJD
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/19/2018 07:31	11/21/2018 11:01	TJD
319-85-7	beta-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:01	TJD
319-86-8	delta-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:01	TJD
60-57-1	Dieldrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:01	TJD
959-98-8	Endosulfan I	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:01	TJD
33213-65-9	Endosulfan II	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/19/2018 07:31	11/21/2018 11:01	TJD
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:01	TJD



Sample Information

Client Sample ID: SB-57B

York Sample ID: 18K0528-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 9:16 am

11/14/2018

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-20-8	Endrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:01	TJD
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:01	TJD
76-44-8	Heptachlor	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:01	TJD
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	61.7 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	59.3 %	30-150							

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 17:37	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 17:37	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 17:37	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 17:37	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 17:37	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 17:37	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 17:37	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications:	11/19/2018 07:31	11/21/2018 17:37	TJD
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	53.5 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	35.3 %	30-140							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	4760		mg/kg dry	5.86	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:55	KML
7440-36-0	Antimony	ND		mg/kg dry	2.93	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:55	KML



Sample Information

Client Sample ID: SB-57B

York Sample ID: 18K0528-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 9:16 am

11/14/2018

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		mg/kg dry	1.76	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:55	KML
7440-39-3	Barium	178		mg/kg dry	2.93	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:55	KML
7440-41-7	Beryllium	0.301		mg/kg dry	0.059	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:55	KML
7440-43-9	Cadmium	7.19		mg/kg dry	0.352	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:55	KML
7440-70-2	Calcium	21400		mg/kg dry	5.86	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:55	KML
7440-47-3	Chromium	13.1		mg/kg dry	0.586	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:55	KML
7440-48-4	Cobalt	12.4		mg/kg dry	0.469	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:55	KML
7440-50-8	Copper	116		mg/kg dry	2.35	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:55	KML
7439-89-6	Iron	84700		mg/kg dry	29.3	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:55	KML
7439-92-1	Lead	381		mg/kg dry	0.586	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:55	KML
7439-95-4	Magnesium	610		mg/kg dry	5.86	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:55	KML
7439-96-5	Manganese	446		mg/kg dry	0.586	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:55	KML
7440-02-0	Nickel	90.4		mg/kg dry	1.17	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:55	KML
7440-09-7	Potassium	800		mg/kg dry	5.86	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:55	KML
7782-49-2	Selenium	ND		mg/kg dry	2.93	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:55	KML
7440-22-4	Silver	ND		mg/kg dry	0.586	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:55	KML
7440-23-5	Sodium	867		mg/kg dry	58.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:55	KML
7440-28-0	Thallium	5.03		mg/kg dry	2.93	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:55	KML
7440-62-2	Vanadium	25.9		mg/kg dry	1.17	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:55	KML
7440-66-6	Zinc	874		mg/kg dry	2.93	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:55	KML

Mercury by 7473

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB-57B

York Sample ID: 18K0528-05

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 9:16 am	<u>Date Received</u> 11/14/2018
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Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.390		mg/kg dry	0.0352	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/15/2018 09:32	11/15/2018 12:22	SY

Total Solids

Log-in Notes:

Sample Notes:

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	85.3		%	0.100	1	SM 2540G Certifications: CTDOH	11/19/2018 12:52	11/19/2018 16:23	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.586	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/20/2018 08:40	11/20/2018 16:40	MAC

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	13.1		mg/kg	0.500	1	Calculation Certifications:	11/30/2018 14:23	11/30/2018 14:34	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.586	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 08:34	11/20/2018 14:50	JTV

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:16		
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:16		
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:16		



Sample Information

Client Sample ID: SB-57B

York Sample ID: 18K0528-05

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 9:16 am	<u>Date Received</u> 11/14/2018
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Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:16		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:16		
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:16		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:16		
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:16		
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:16		
	NMeFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:16		
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:16		
	NEtFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:16		
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:16		
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:16		
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:16		

Surrogate Recoveries

Result

Acceptance Range

Surrogate: 13C-PFHxA	%	70-130
Surrogate: 13C-PFDA	%	70-130
Surrogate: d5-NEtFOSAA	%	70-130

Sample Information

Client Sample ID: SB-57C

York Sample ID: 18K0528-06

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 9:27 am	<u>Date Received</u> 11/14/2018
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Volatile Organics, NYSDEC Part 375 List

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
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@			



Sample Information

Client Sample ID: SB-57C

York Sample ID: 18K0528-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 9:27 am

11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:17	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:17	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:17	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND	IS-LO	ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:17	LLJ
95-50-1	1,2-Dichlorobenzene	ND	IS-LO	ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:17	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:17	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND	IS-LO	ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:17	LLJ
541-73-1	1,3-Dichlorobenzene	ND	IS-LO	ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:17	LLJ
106-46-7	1,4-Dichlorobenzene	ND	IS-LO	ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:17	LLJ
123-91-1	1,4-Dioxane	ND	IS-LO	ug/kg dry	58	120	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:17	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:17	LLJ
67-64-1	Acetone	12		ug/kg dry	5.8	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:17	LLJ
71-43-2	Benzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:17	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:17	LLJ
108-90-7	Chlorobenzene	ND	IS-LO	ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:17	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:17	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:17	LLJ
100-41-4	Ethyl Benzene	ND	IS-LO	ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:17	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:17	LLJ
75-09-2	Methylene chloride	9.3	J	ug/kg dry	5.8	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:17	LLJ
91-20-3	Naphthalene	7.3	IS-LO, J, B	ug/kg dry	2.9	12	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:17	LLJ
104-51-8	n-Butylbenzene	ND	IS-LO	ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:17	LLJ
103-65-1	n-Propylbenzene	ND	IS-LO	ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:17	LLJ



Sample Information

Client Sample ID: SB-57C

York Sample ID: 18K0528-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 9:27 am

11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
95-47-6	o-Xylene	ND	IS-LO	ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 07:30	11/17/2018 03:17	LLJ
179601-23-1	p- & m- Xylenes	ND	IS-LO	ug/kg dry	5.8	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 07:30	11/17/2018 03:17	LLJ
135-98-8	sec-Butylbenzene	ND	IS-LO	ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:17	LLJ
98-06-6	tert-Butylbenzene	ND	IS-LO	ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:17	LLJ
127-18-4	Tetrachloroethylene	12000		ug/kg dry	290	580	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/19/2018 09:55	11/19/2018 16:18	LLJ
108-88-3	Toluene	ND	IS-LO	ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:17	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:17	LLJ
79-01-6	Trichloroethylene	11	IS-LO	ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:17	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:17	LLJ
1330-20-7	Xylenes, Total	ND	IS-LO	ug/kg dry	8.7	17	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/16/2018 07:30	11/17/2018 03:17	LLJ
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	101 %			77-125						
2037-26-5	Surrogate: SURR: Toluene-d8	135 %	S-08		85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	116 %			76-130						

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:30	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:30	KH
83-32-9	Acenaphthene	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:30	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:30	KH
120-12-7	Anthracene	115		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:30	KH
56-55-3	Benzo(a)anthracene	285		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:30	KH
50-32-8	Benzo(a)pyrene	268		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:30	KH



Sample Information

Client Sample ID: SB-57C

York Sample ID: 18K0528-06

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 9:27 am	<u>Date Received</u> 11/14/2018
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Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
205-99-2	Benzo(b)fluoranthene	217		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:30	KH
191-24-2	Benzo(g,h,i)perylene	170		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:30	KH
207-08-9	Benzo(k)fluoranthene	206		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:30	KH
218-01-9	Chrysene	306		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:30	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:30	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:30	KH
206-44-0	Fluoranthene	594		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:30	KH
86-73-7	Fluorene	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:30	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:30	KH
193-39-5	Indeno(1,2,3-cd)pyrene	188		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:30	KH
91-20-3	Naphthalene	65.4	J	ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:30	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:30	KH
85-01-8	Phenanthrene	537		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:30	KH
108-95-2	Phenol	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:30	KH
129-00-0	Pyrene	593		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 16:30	KH

Surrogate Recoveries

Result

Acceptance Range

367-12-4	Surrogate: SURR: 2-Fluorophenol	65.8 %	20-108
4165-62-2	Surrogate: SURR: Phenol-d5	73.4 %	23-114
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	63.0 %	22-108
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	81.4 %	21-113
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	74.4 %	19-110
1718-51-0	Surrogate: SURR: Terphenyl-d14	87.8 %	24-116

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

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: SB-57C

York Sample ID: 18K0528-06

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 9:27 am	<u>Date Received</u> 11/14/2018
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Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:16	TJD
72-55-9	4,4'-DDE	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:16	TJD
50-29-3	4,4'-DDT	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:16	TJD
309-00-2	Aldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:16	TJD
319-84-6	alpha-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:16	TJD
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/19/2018 07:31	11/21/2018 11:16	TJD
319-85-7	beta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:16	TJD
319-86-8	delta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:16	TJD
60-57-1	Dieldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:16	TJD
959-98-8	Endosulfan I	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:16	TJD
33213-65-9	Endosulfan II	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/19/2018 07:31	11/21/2018 11:16	TJD
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:16	TJD
72-20-8	Endrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:16	TJD
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:16	TJD
76-44-8	Heptachlor	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:16	TJD
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	64.3 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	65.6 %	30-150							

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0194	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 17:50	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0194	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 17:50	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0194	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 17:50	TJD



Sample Information

Client Sample ID: SB-57C

York Sample ID: 18K0528-06

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 9:27 am	<u>Date Received</u> 11/14/2018
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Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0194	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 17:50	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0194	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 17:50	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0194	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 17:50	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0194	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 17:50	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0194	1	EPA 8082A Certifications:	11/19/2018 07:31	11/21/2018 17:50	TJD
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	62.9 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	47.3 %	30-140							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	9920		mg/kg dry	5.82	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:58	KML
7440-36-0	Antimony	ND		mg/kg dry	2.91	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:58	KML
7440-38-2	Arsenic	2.16		mg/kg dry	1.75	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:58	KML
7440-39-3	Barium	73.5		mg/kg dry	2.91	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:58	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.058	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:58	KML
7440-43-9	Cadmium	0.735		mg/kg dry	0.349	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:58	KML
7440-70-2	Calcium	43000		mg/kg dry	5.82	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:58	KML
7440-47-3	Chromium	12.5		mg/kg dry	0.582	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:58	KML
7440-48-4	Cobalt	42.1		mg/kg dry	0.466	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:58	KML
7440-50-8	Copper	855		mg/kg dry	2.33	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:58	KML
7439-89-6	Iron	21500		mg/kg dry	29.1	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:58	KML
7439-92-1	Lead	52.0		mg/kg dry	0.582	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:58	KML
7439-95-4	Magnesium	13600		mg/kg dry	5.82	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:58	KML



Sample Information

Client Sample ID: SB-57C

York Sample ID: 18K0528-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 9:27 am

11/14/2018

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	657		mg/kg dry	0.582	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:58	KML
7440-02-0	Nickel	2330		mg/kg dry	1.16	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:58	KML
7440-09-7	Potassium	1460		mg/kg dry	5.82	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:58	KML
7782-49-2	Selenium	ND		mg/kg dry	2.91	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:58	KML
7440-22-4	Silver	ND		mg/kg dry	0.582	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:58	KML
7440-23-5	Sodium	858		mg/kg dry	58.2	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:58	KML
7440-28-0	Thallium	ND		mg/kg dry	2.91	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:58	KML
7440-62-2	Vanadium	18.5		mg/kg dry	1.16	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:58	KML
7440-66-6	Zinc	947		mg/kg dry	2.91	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 11:58	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.253		mg/kg dry	0.0349	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/15/2018 09:32	11/15/2018 12:31	SY

Total Solids

Log-in Notes:

Sample Notes:

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	85.9		%	0.100	1	SM 2540G Certifications: CTDOH	11/19/2018 12:52	11/19/2018 16:23	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.582	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/20/2018 08:40	11/20/2018 16:40	MAC

Chromium, Trivalent

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB-57C

York Sample ID: 18K0528-06

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 9:27 am	<u>Date Received</u> 11/14/2018
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Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	12.5		mg/kg	0.500	1	Calculation	11/30/2018 14:23	11/30/2018 14:34	PAM

Certifications:

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.582	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 08:34	11/20/2018 14:50	JTV

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:27		
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:27		
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:27		
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:27		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:27		
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:27		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:27		
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:27		
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:27		
	NMeFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:27		
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:27		
	NEtFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:27		
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:27		
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:27		
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:27		



Sample Information

Client Sample ID: SB-57C

York Sample ID: 18K0528-06

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 9:27 am	<u>Date Received</u> 11/14/2018
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Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries		Result	Acceptance Range							
	Surrogate: 13C-PFHxA	%		70-130						
	Surrogate: 13C-PFDA	%		70-130						
	Surrogate: d5-NEtFOSAA	%		70-130						

Sample Information

Client Sample ID: SB-58A

York Sample ID: 18K0528-07

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 9:39 am	<u>Date Received</u> 11/14/2018
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Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:47	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:47	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:47	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:47	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:47	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:47	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:47	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:47	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:47	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	51	100	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:47	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:47	LLJ
67-64-1	Acetone	120		ug/kg dry	5.1	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:47	LLJ



Sample Information

Client Sample ID: SB-58A

York Sample ID: 18K0528-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 9:39 am

11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
71-43-2	Benzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:47	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:47	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:47	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:47	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:47	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:47	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:47	LLJ
75-09-2	Methylene chloride	14		ug/kg dry	5.1	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:47	LLJ
91-20-3	Naphthalene	ND		ug/kg dry	2.6	10	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:47	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:47	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:47	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 07:30	11/17/2018 03:47	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.1	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 07:30	11/17/2018 03:47	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:47	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:47	LLJ
127-18-4	Tetrachloroethylene	2.9	J	ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:47	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:47	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:47	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:47	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 03:47	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.7	15	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/16/2018 07:30	11/17/2018 03:47	LLJ

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	92.7 %	77-125
2037-26-5	Surrogate: SURR: Toluene-d8	104 %	85-120
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	108 %	76-130



Sample Information

Client Sample ID: SB-58A

York Sample ID: 18K0528-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 9:39 am

11/14/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	42.9	85.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:00	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	42.9	85.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:00	KH
83-32-9	Acenaphthene	ND		ug/kg dry	42.9	85.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:00	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	42.9	85.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:00	KH
120-12-7	Anthracene	ND		ug/kg dry	42.9	85.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:00	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	42.9	85.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:00	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	42.9	85.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:00	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	42.9	85.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:00	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	42.9	85.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:00	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	42.9	85.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:00	KH
218-01-9	Chrysene	ND		ug/kg dry	42.9	85.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:00	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	42.9	85.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:00	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	42.9	85.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:00	KH
206-44-0	Fluoranthene	ND		ug/kg dry	42.9	85.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:00	KH
86-73-7	Fluorene	ND		ug/kg dry	42.9	85.5	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:00	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	42.9	85.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:00	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	42.9	85.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:00	KH
91-20-3	Naphthalene	ND		ug/kg dry	42.9	85.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:00	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	42.9	85.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:00	KH
85-01-8	Phenanthrene	ND		ug/kg dry	42.9	85.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:00	KH
108-95-2	Phenol	ND		ug/kg dry	42.9	85.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:00	KH
129-00-0	Pyrene	ND		ug/kg dry	42.9	85.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:00	KH
	Surrogate Recoveries	Result		Acceptance Range							
367-12-4	Surrogate: SURR: 2-Fluorophenol	64.3 %		20-108							



Sample Information

Client Sample ID: SB-58A

York Sample ID: 18K0528-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 9:39 am

11/14/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
4165-62-2	Surrogate: SURR: Phenol-d5	65.6 %			23-114						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	55.6 %			22-108						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	69.8 %			21-113						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	63.5 %			19-110						
1718-51-0	Surrogate: SURR: Terphenyl-d14	79.4 %			24-116						

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:31	TJD
72-55-9	4,4'-DDE	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:31	TJD
50-29-3	4,4'-DDT	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:31	TJD
309-00-2	Aldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:31	TJD
319-84-6	alpha-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:31	TJD
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/19/2018 07:31	11/21/2018 11:31	TJD
319-85-7	beta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:31	TJD
319-86-8	delta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:31	TJD
60-57-1	Dieldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:31	TJD
959-98-8	Endosulfan I	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:31	TJD
33213-65-9	Endosulfan II	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/19/2018 07:31	11/21/2018 11:31	TJD
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:31	TJD
72-20-8	Endrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:31	TJD
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:31	TJD
76-44-8	Heptachlor	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:31	TJD
	Surrogate Recoveries	Result			Acceptance Range					
2051-24-3	Surrogate: Decachlorobiphenyl	69.1 %			30-150					
877-09-8	Surrogate: Tetrachloro-m-xylene	52.3 %			30-150					



Sample Information

Client Sample ID: SB-58A

York Sample ID: 18K0528-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 9:39 am

11/14/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 18:04	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 18:04	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 18:04	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 18:04	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 18:04	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 18:04	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 18:04	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0171	1	EPA 8082A Certifications:	11/19/2018 07:31	11/21/2018 18:04	TJD

Surrogate Recoveries

Result

Acceptance Range

877-09-8	Surrogate: Tetrachloro-m-xylene	52.0 %	30-140
2051-24-3	Surrogate: Decachlorobiphenyl	40.8 %	30-140

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	3530		mg/kg dry	5.13	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:05	KML
7440-36-0	Antimony	ND		mg/kg dry	2.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:05	KML
7440-38-2	Arsenic	ND		mg/kg dry	1.54	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:05	KML
7440-39-3	Barium	20.0		mg/kg dry	2.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:05	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.051	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:05	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.308	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:05	KML
7440-70-2	Calcium	549		mg/kg dry	5.13	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:05	KML
7440-47-3	Chromium	6.53		mg/kg dry	0.513	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:05	KML
7440-48-4	Cobalt	4.52		mg/kg dry	0.410	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:05	KML



Sample Information

Client Sample ID: SB-58A

York Sample ID: 18K0528-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 9:39 am

11/14/2018

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	7.22		mg/kg dry	2.05	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:05	KML
7439-89-6	Iron	9280		mg/kg dry	25.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:05	KML
7439-92-1	Lead	2.63		mg/kg dry	0.513	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:05	KML
7439-95-4	Magnesium	1710		mg/kg dry	5.13	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:05	KML
7439-96-5	Manganese	165		mg/kg dry	0.513	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:05	KML
7440-02-0	Nickel	9.26		mg/kg dry	1.03	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:05	KML
7440-09-7	Potassium	1220		mg/kg dry	5.13	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:05	KML
7782-49-2	Selenium	ND		mg/kg dry	2.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:05	KML
7440-22-4	Silver	ND		mg/kg dry	0.513	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:05	KML
7440-23-5	Sodium	178		mg/kg dry	51.3	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:05	KML
7440-28-0	Thallium	ND		mg/kg dry	2.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:05	KML
7440-62-2	Vanadium	8.03		mg/kg dry	1.03	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:05	KML
7440-66-6	Zinc	16.0		mg/kg dry	2.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:05	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0308	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/15/2018 09:32	11/15/2018 12:39	SY

Total Solids

Log-in Notes:

Sample Notes:

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	97.5		%	0.100	1	SM 2540G Certifications: CTDOH	11/19/2018 12:52	11/19/2018 16:23	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB-58A

York Sample ID: 18K0528-07

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 9:39 am	<u>Date Received</u> 11/14/2018
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Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.513	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/20/2018 08:40	11/20/2018 16:40	MAC

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	6.53		mg/kg	0.500	1	Calculation Certifications:	11/30/2018 14:23	11/30/2018 14:34	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.513	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 08:34	11/20/2018 14:50	JTV

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:39		
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:39		
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:39		
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:39		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:39		
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:39		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:39		
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:39		
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:39		
	NMeFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:39		
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:39		



Sample Information

Client Sample ID: SB-58A

York Sample ID: 18K0528-07

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 9:39 am	<u>Date Received</u> 11/14/2018
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Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	NEtFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:39		
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:39		
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:39		
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:39		
	Surrogate Recoveries	Result					Acceptance Range			
	Surrogate: 13C-PFHxA	%					70-130			
	Surrogate: 13C-PFDA	%					70-130			
	Surrogate: d5-NEtFOSAA	%					70-130			

Sample Information

Client Sample ID: SB-58B

York Sample ID: 18K0528-08

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 9:55 am	<u>Date Received</u> 11/14/2018
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Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:17	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:17	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:17	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:17	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:17	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:17	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:17	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:17	LLJ



Sample Information

Client Sample ID: SB-58B

York Sample ID: 18K0528-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 9:55 am

11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:17	LLJ
123-91-1	1,4-Dioxane	ND	IS-LO	ug/kg dry	64	130	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:17	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:17	LLJ
67-64-1	Acetone	11	J	ug/kg dry	6.4	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:17	LLJ
71-43-2	Benzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:17	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:17	LLJ
108-90-7	Chlorobenzene	ND	IS-LO	ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:17	LLJ
67-66-3	Chloroform	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:17	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:17	LLJ
100-41-4	Ethyl Benzene	ND	IS-LO	ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:17	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:17	LLJ
75-09-2	Methylene chloride	13		ug/kg dry	6.4	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:17	LLJ
91-20-3	Naphthalene	7.6	J, B	ug/kg dry	3.2	13	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:17	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:17	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:17	LLJ
95-47-6	o-Xylene	ND	IS-LO	ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 07:30	11/17/2018 04:17	LLJ
179601-23-1	p- & m- Xylenes	ND	IS-LO	ug/kg dry	6.4	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 07:30	11/17/2018 04:17	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:17	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:17	LLJ
127-18-4	Tetrachloroethylene	9600		ug/kg dry	320	640	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/19/2018 09:55	11/19/2018 16:51	LLJ
108-88-3	Toluene	ND	IS-LO	ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:17	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:17	LLJ
79-01-6	Trichloroethylene	7.4	IS-LO	ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:17	LLJ



Sample Information

Client Sample ID: SB-58B

York Sample ID: 18K0528-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 9:55 am

11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
75-01-4	Vinyl Chloride	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:17	LLJ
1330-20-7	Xylenes, Total	ND	IS-LO	ug/kg dry	9.6	19	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/16/2018 07:30	11/17/2018 04:17	LLJ
	Surrogate Recoveries	Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	95.5 %			77-125						
2037-26-5	Surrogate: SURR: Toluene-d8	143 %	S-08		85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	130 %			76-130						

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	53.1	106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 11:01	KH
65794-96-9	3- & 4-Methylphenols	130		ug/kg dry	53.1	106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 11:01	KH
83-32-9	Acenaphthene	6350		ug/kg dry	531	1060	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 18:59	KH
208-96-8	Acenaphthylene	1980		ug/kg dry	53.1	106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 11:01	KH
120-12-7	Anthracene	18500		ug/kg dry	531	1060	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 18:59	KH
56-55-3	Benzo(a)anthracene	49100		ug/kg dry	1330	2650	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/25/2018 11:43	KH
50-32-8	Benzo(a)pyrene	47300		ug/kg dry	1330	2650	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/25/2018 11:43	KH
205-99-2	Benzo(b)fluoranthene	39400		ug/kg dry	1330	2650	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/25/2018 11:43	KH
191-24-2	Benzo(g,h,i)perylene	26500		ug/kg dry	531	1060	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 18:59	KH
207-08-9	Benzo(k)fluoranthene	29100		ug/kg dry	531	1060	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 18:59	KH
218-01-9	Chrysene	48400		ug/kg dry	1330	2650	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/25/2018 11:43	KH
53-70-3	Dibenzo(a,h)anthracene	8710		ug/kg dry	531	1060	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 18:59	KH
132-64-9	Dibenzofuran	2270		ug/kg dry	53.1	106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 11:01	KH
206-44-0	Fluoranthene	80300		ug/kg dry	1330	2650	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/25/2018 11:43	KH
86-73-7	Fluorene	6240		ug/kg dry	531	1060	20	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 18:59	KH



Sample Information

Client Sample ID: SB-58B

York Sample ID: 18K0528-08

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 9:55 am	<u>Date Received</u> 11/14/2018
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Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
118-74-1	Hexachlorobenzene	ND		ug/kg dry	53.1	106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 11:01	KH
193-39-5	Indeno(1,2,3-cd)pyrene	29500		ug/kg dry	531	1060	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 18:59	KH
91-20-3	Naphthalene	1900		ug/kg dry	53.1	106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 11:01	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	53.1	106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 11:01	KH
85-01-8	Phenanthrene	78300		ug/kg dry	1330	2650	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/25/2018 11:43	KH
108-95-2	Phenol	ND		ug/kg dry	53.1	106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 11:01	KH
129-00-0	Pyrene	110000		ug/kg dry	2650	5300	100	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/25/2018 14:45	KH
Surrogate Recoveries		Result	Acceptance Range								
367-12-4	Surrogate: SURR: 2-Fluorophenol	72.8 %	20-108								
4165-62-2	Surrogate: SURR: Phenol-d5	74.0 %	23-114								
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	83.2 %	22-108								
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	78.8 %	21-113								
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	50.4 %	19-110								
1718-51-0	Surrogate: SURR: Terphenyl-d14	72.1 %	24-116								

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:46	TJD
72-55-9	4,4'-DDE	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:46	TJD
50-29-3	4,4'-DDT	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:46	TJD
309-00-2	Aldrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:46	TJD
319-84-6	alpha-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:46	TJD
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/19/2018 07:31	11/21/2018 11:46	TJD
319-85-7	beta-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:46	TJD
319-86-8	delta-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:46	TJD
60-57-1	Dieldrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:46	TJD



Sample Information

Client Sample ID: SB-58B

York Sample ID: 18K0528-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 9:55 am

11/14/2018

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
959-98-8	Endosulfan I	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:46	TJD
33213-65-9	Endosulfan II	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/19/2018 07:31	11/21/2018 11:46	TJD
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:46	TJD
72-20-8	Endrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:46	TJD
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:46	TJD
76-44-8	Heptachlor	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 11:46	TJD
Surrogate Recoveries		Result			Acceptance Range					
2051-24-3	Surrogate: Decachlorobiphenyl	81.9 %			30-150					
877-09-8	Surrogate: Tetrachloro-m-xylene	66.6 %			30-150					

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0212	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 18:17	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0212	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 18:17	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0212	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 18:17	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0212	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 18:17	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0212	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 18:17	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0212	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 18:17	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0212	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 18:17	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0212	1	EPA 8082A Certifications:	11/19/2018 07:31	11/21/2018 18:17	TJD
Surrogate Recoveries		Result			Acceptance Range					
877-09-8	Surrogate: Tetrachloro-m-xylene	61.9 %			30-140					
2051-24-3	Surrogate: Decachlorobiphenyl	50.2 %			30-140					

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

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@



Sample Information

Client Sample ID: SB-58B

York Sample ID: 18K0528-08

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
18K0528	37321-STX 27-10 49th Ave	Soil	November 13, 2018 9:55 am	11/14/2018
7429-90-5	Aluminum 4520	mg/kg dry	6.37	1 EPA 6010D 11/15/2018 10:30 11/20/2018 12:07 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP
7440-36-0	Antimony 18.1	mg/kg dry	3.19	1 EPA 6010D 11/15/2018 10:30 11/20/2018 12:07 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP
7440-38-2	Arsenic 12.7	mg/kg dry	1.91	1 EPA 6010D 11/15/2018 10:30 11/20/2018 12:07 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP
7440-39-3	Barium 546	mg/kg dry	3.19	1 EPA 6010D 11/15/2018 10:30 11/20/2018 12:07 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP
7440-41-7	Beryllium ND	mg/kg dry	0.064	1 EPA 6010D 11/15/2018 10:30 11/20/2018 12:07 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP
7440-43-9	Cadmium 3.61	mg/kg dry	0.382	1 EPA 6010D 11/15/2018 10:30 11/20/2018 12:07 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP
7440-70-2	Calcium 6640	mg/kg dry	6.37	1 EPA 6010D 11/15/2018 10:30 11/20/2018 12:07 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP
7440-47-3	Chromium 17.6	mg/kg dry	0.637	1 EPA 6010D 11/15/2018 10:30 11/20/2018 12:07 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP
7440-48-4	Cobalt 8.27	mg/kg dry	0.510	1 EPA 6010D 11/15/2018 10:30 11/20/2018 12:07 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP
7440-50-8	Copper 331	mg/kg dry	2.55	1 EPA 6010D 11/15/2018 10:30 11/20/2018 12:07 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP
7439-89-6	Iron 23500	mg/kg dry	31.9	1 EPA 6010D 11/15/2018 10:30 11/20/2018 12:07 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP
7439-92-1	Lead 1220	mg/kg dry	0.637	1 EPA 6010D 11/15/2018 10:30 11/20/2018 12:07 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP
7439-95-4	Magnesium 1850	mg/kg dry	6.37	1 EPA 6010D 11/15/2018 10:30 11/20/2018 12:07 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP
7439-96-5	Manganese 404	mg/kg dry	0.637	1 EPA 6010D 11/15/2018 10:30 11/20/2018 12:07 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP
7440-02-0	Nickel 24.5	mg/kg dry	1.27	1 EPA 6010D 11/15/2018 10:30 11/20/2018 12:07 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP
7440-09-7	Potassium 709	mg/kg dry	6.37	1 EPA 6010D 11/15/2018 10:30 11/20/2018 12:07 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP
7782-49-2	Selenium ND	mg/kg dry	3.19	1 EPA 6010D 11/15/2018 10:30 11/20/2018 12:07 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP
7440-22-4	Silver ND	mg/kg dry	0.637	1 EPA 6010D 11/15/2018 10:30 11/20/2018 12:07 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP
7440-23-5	Sodium 995	mg/kg dry	63.7	1 EPA 6010D 11/15/2018 10:30 11/20/2018 12:07 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP
7440-28-0	Thallium ND	mg/kg dry	3.19	1 EPA 6010D 11/15/2018 10:30 11/20/2018 12:07 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP
7440-62-2	Vanadium 20.5	mg/kg dry	1.27	1 EPA 6010D 11/15/2018 10:30 11/20/2018 12:07 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP
7440-66-6	Zinc 1290	mg/kg dry	3.19	1 EPA 6010D 11/15/2018 10:30 11/20/2018 12:07 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP

Mercury by 7473

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB-58B

York Sample ID: 18K0528-08

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 9:55 am	<u>Date Received</u> 11/14/2018
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Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	1.68		mg/kg dry	0.0382	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/15/2018 09:32	11/15/2018 12:48	SY

Total Solids

Log-in Notes:

Sample Notes:

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	78.5		%	0.100	1	SM 2540G Certifications: CTDOH	11/19/2018 12:52	11/19/2018 16:23	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.637	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/20/2018 08:40	11/20/2018 16:40	MAC

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	17.6		mg/kg	0.500	1	Calculation Certifications:	11/30/2018 14:23	11/30/2018 14:34	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	1.45		mg/kg dry	0.637	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/21/2018 07:23	11/21/2018 14:53	JTV

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:55		
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:55		
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:55		



Sample Information

Client Sample ID: SB-58B

York Sample ID: 18K0528-08

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 9:55 am	<u>Date Received</u> 11/14/2018
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Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:55		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:55		
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:55		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:55		
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:55		
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:55		
	NMeFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:55		
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:55		
	NEtFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:55		
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:55		
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:55		
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 09:55		

Surrogate Recoveries

Result

Acceptance Range

Surrogate: 13C-PFHxA	%	70-130
Surrogate: 13C-PFDA	%	70-130
Surrogate: d5-NEtFOSAA	%	70-130

Sample Information

Client Sample ID: SB-58C

York Sample ID: 18K0528-09

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 10:03 am	<u>Date Received</u> 11/14/2018
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Volatile Organics, NYSDEC Part 375 List

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
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@		



Sample Information

Client Sample ID: SB-58C

York Sample ID: 18K0528-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 10:03 am

11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:47	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:47	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:47	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:47	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:47	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:47	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:47	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:47	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:47	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	59	120	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:47	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:47	LLJ
67-64-1	Acetone	12		ug/kg dry	5.9	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:47	LLJ
71-43-2	Benzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:47	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:47	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:47	LLJ
67-66-3	Chloroform	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:47	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:47	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:47	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:47	LLJ
75-09-2	Methylene chloride	18		ug/kg dry	5.9	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:47	LLJ
91-20-3	Naphthalene	3.1	J, B	ug/kg dry	3.0	12	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:47	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:47	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:47	LLJ



Sample Information

Client Sample ID: SB-58C

York Sample ID: 18K0528-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 10:03 am

11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
95-47-6	o-Xylene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 07:30	11/17/2018 04:47	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.9	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 07:30	11/17/2018 04:47	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:47	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:47	LLJ
127-18-4	Tetrachloroethylene	5.8	J	ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:47	LLJ
108-88-3	Toluene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:47	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:47	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:47	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 04:47	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.9	18	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/16/2018 07:30	11/17/2018 04:47	LLJ
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	90.7 %	77-125								
2037-26-5	Surrogate: SURR: Toluene-d8	103 %	85-120								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	98.5 %	76-130								

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 11:31	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 11:31	KH
83-32-9	Acenaphthene	98.0	J	ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 11:31	KH
208-96-8	Acenaphthylene	231		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 11:31	KH
120-12-7	Anthracene	325		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 11:31	KH
56-55-3	Benzo(a)anthracene	1160		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 11:31	KH
50-32-8	Benzo(a)pyrene	1180		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 11:31	KH



Sample Information

Client Sample ID: SB-58C

York Sample ID: 18K0528-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 10:03 am

11/14/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
205-99-2	Benzo(b)fluoranthene	1150		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 11:31	KH
191-24-2	Benzo(g,h,i)perylene	804		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 11:31	KH
207-08-9	Benzo(k)fluoranthene	1170		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 11:31	KH
218-01-9	Chrysene	1430		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 11:31	KH
53-70-3	Dibenzo(a,h)anthracene	282		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 11:31	KH
132-64-9	Dibenzofuran	107		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 11:31	KH
206-44-0	Fluoranthene	2550		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 11:31	KH
86-73-7	Fluorene	133		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 11:31	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 11:31	KH
193-39-5	Indeno(1,2,3-cd)pyrene	878		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 11:31	KH
91-20-3	Naphthalene	134		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 11:31	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 11:31	KH
85-01-8	Phenanthrene	2090		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 11:31	KH
108-95-2	Phenol	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 11:31	KH
129-00-0	Pyrene	2240		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 11:31	KH
Surrogate Recoveries		Result			Acceptance Range						
367-12-4	Surrogate: SURR: 2-Fluorophenol	59.3 %			20-108						
4165-62-2	Surrogate: SURR: Phenol-d5	64.7 %			23-114						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	58.9 %			22-108						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	67.8 %			21-113						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	66.1 %			19-110						
1718-51-0	Surrogate: SURR: Terphenyl-d14	65.1 %			24-116						

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

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									
www.YORKLAB.com	(203) 325-1371									
132-02 89th AVENUE										
RICHMOND HILL, NY 11418										
ClientServices@										



Sample Information

Client Sample ID: SB-58C

York Sample ID: 18K0528-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 10:03 am

11/14/2018

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 12:01	TJD
72-55-9	4,4'-DDE	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 12:01	TJD
50-29-3	4,4'-DDT	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 12:01	TJD
309-00-2	Aldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 12:01	TJD
319-84-6	alpha-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 12:01	TJD
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/19/2018 07:31	11/21/2018 12:01	TJD
319-85-7	beta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 12:01	TJD
319-86-8	delta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 12:01	TJD
60-57-1	Dieldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 12:01	TJD
959-98-8	Endosulfan I	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 12:01	TJD
33213-65-9	Endosulfan II	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/19/2018 07:31	11/21/2018 12:01	TJD
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 12:01	TJD
72-20-8	Endrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 12:01	TJD
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 12:01	TJD
76-44-8	Heptachlor	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 12:01	TJD
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	60.7 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	71.3 %	30-150							

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0197	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 18:31	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0197	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 18:31	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0197	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 18:31	TJD



Sample Information

Client Sample ID: SB-58C

York Sample ID: 18K0528-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 10:03 am

11/14/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0197	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 18:31	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0197	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 18:31	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0197	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 18:31	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0197	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 18:31	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0197	1	EPA 8082A Certifications:	11/19/2018 07:31	11/21/2018 18:31	TJD
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	56.9 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	41.3 %	30-140							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	6640		mg/kg dry	5.93	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:09	KML
7440-36-0	Antimony	ND		mg/kg dry	2.96	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:09	KML
7440-38-2	Arsenic	6.01		mg/kg dry	1.78	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:09	KML
7440-39-3	Barium	653		mg/kg dry	2.96	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:09	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.059	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:09	KML
7440-43-9	Cadmium	2.34		mg/kg dry	0.356	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:09	KML
7440-70-2	Calcium	45200		mg/kg dry	5.93	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:09	KML
7440-47-3	Chromium	11.8		mg/kg dry	0.593	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:09	KML
7440-48-4	Cobalt	8.93		mg/kg dry	0.474	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:09	KML
7440-50-8	Copper	63.2		mg/kg dry	2.37	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:09	KML
7439-89-6	Iron	13400		mg/kg dry	29.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:09	KML
7439-92-1	Lead	2200		mg/kg dry	0.593	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:09	KML
7439-95-4	Magnesium	3530		mg/kg dry	5.93	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:09	KML



Sample Information

Client Sample ID: SB-58C

York Sample ID: 18K0528-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 10:03 am

11/14/2018

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	326		mg/kg dry	0.593	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:09	KML
7440-02-0	Nickel	13.2		mg/kg dry	1.19	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:09	KML
7440-09-7	Potassium	1880		mg/kg dry	5.93	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:09	KML
7782-49-2	Selenium	ND		mg/kg dry	2.96	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:09	KML
7440-22-4	Silver	ND		mg/kg dry	0.593	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:09	KML
7440-23-5	Sodium	901		mg/kg dry	59.3	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:09	KML
7440-28-0	Thallium	ND		mg/kg dry	2.96	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:09	KML
7440-62-2	Vanadium	21.4		mg/kg dry	1.19	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:09	KML
7440-66-6	Zinc	1160		mg/kg dry	2.96	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:09	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.572		mg/kg dry	0.0356	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/15/2018 09:32	11/15/2018 13:00	SY

Total Solids

Log-in Notes:

Sample Notes:

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	84.4		%	0.100	1	SM 2540G Certifications: CTDOH	11/19/2018 12:52	11/19/2018 16:23	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.593	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/20/2018 08:40	11/20/2018 16:40	MAC

Chromium, Trivalent

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB-58C

York Sample ID: 18K0528-09

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 10:03 am	<u>Date Received</u> 11/14/2018
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Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	11.8		mg/kg	0.500	1	Calculation	11/30/2018 14:23	11/30/2018 14:34	PAM

Certifications:

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.593	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/21/2018 07:23	11/21/2018 14:53	JTV

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:03		
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:03		
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:03		
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:03		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:03		
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:03		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:03		
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:03		
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:03		
	NMeFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:03		
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:03		
	NEtFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:03		
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:03		
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:03		
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:03		



Sample Information

Client Sample ID: SB-58C

York Sample ID: 18K0528-09

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 10:03 am	<u>Date Received</u> 11/14/2018
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Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries		Result	Acceptance Range							
	Surrogate: 13C-PFHxA	%		70-130						
	Surrogate: 13C-PFDA	%		70-130						
	Surrogate: d5-NEtFOSAA	%		70-130						

Sample Information

Client Sample ID: SB-59A

York Sample ID: 18K0528-10

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 10:18 am	<u>Date Received</u> 11/14/2018
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Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:17	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:17	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:17	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:17	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:17	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:17	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:17	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:17	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:17	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	54	110	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:17	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:17	LLJ
67-64-1	Acetone	23		ug/kg dry	5.4	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:17	LLJ



Sample Information

Client Sample ID: SB-59A

York Sample ID: 18K0528-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 10:18 am

11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
71-43-2	Benzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:17	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:17	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:17	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:17	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:17	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:17	LLJ
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,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:17	LLJ
75-09-2	Methylene chloride	18		ug/kg dry	5.4	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:17	LLJ
91-20-3	Naphthalene	ND		ug/kg dry	2.7	11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:17	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:17	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:17	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 07:30	11/17/2018 05:17	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.4	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 07:30	11/17/2018 05:17	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:17	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:17	LLJ
127-18-4	Tetrachloroethylene	3.9	J	ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:17	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:17	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:17	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:17	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:17	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.1	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/16/2018 07:30	11/17/2018 05:17	LLJ

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	95.0 %	77-125
2037-26-5	Surrogate: SURR: Toluene-d8	100 %	85-120
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	101 %	76-130



Sample Information

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November 13, 2018 10:18 am

11/14/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	44.9	89.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 12:01	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	44.9	89.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 12:01	KH
83-32-9	Acenaphthene	1210		ug/kg dry	44.9	89.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 12:01	KH
208-96-8	Acenaphthylene	529		ug/kg dry	44.9	89.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 12:01	KH
120-12-7	Anthracene	2520		ug/kg dry	44.9	89.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 12:01	KH
56-55-3	Benzo(a)anthracene	19100		ug/kg dry	561	1120	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/25/2018 12:14	KH
50-32-8	Benzo(a)pyrene	21000		ug/kg dry	561	1120	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/25/2018 12:14	KH
205-99-2	Benzo(b)fluoranthene	17300		ug/kg dry	561	1120	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/25/2018 12:14	KH
191-24-2	Benzo(g,h,i)perylene	10100		ug/kg dry	225	448	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 19:28	KH
207-08-9	Benzo(k)fluoranthene	13300		ug/kg dry	225	448	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 19:28	KH
218-01-9	Chrysene	18100		ug/kg dry	561	1120	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/25/2018 12:14	KH
53-70-3	Dibenzo(a,h)anthracene	2530		ug/kg dry	44.9	89.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 12:01	KH
132-64-9	Dibenzofuran	1230		ug/kg dry	44.9	89.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 12:01	KH
206-44-0	Fluoranthene	32400		ug/kg dry	561	1120	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/25/2018 12:14	KH
86-73-7	Fluorene	1120		ug/kg dry	44.9	89.6	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 12:01	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	44.9	89.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 12:01	KH
193-39-5	Indeno(1,2,3-cd)pyrene	12800		ug/kg dry	225	448	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 19:28	KH
91-20-3	Naphthalene	941		ug/kg dry	44.9	89.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 12:01	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	44.9	89.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 12:01	KH
85-01-8	Phenanthrene	24700		ug/kg dry	561	1120	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/25/2018 12:14	KH
108-95-2	Phenol	ND		ug/kg dry	44.9	89.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 12:01	KH



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Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
129-00-0	Pyrene	35500		ug/kg dry	561	1120	25	EPA 8270D	11/20/2018 14:17	11/25/2018 12:14	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
	Surrogate Recoveries	Result									Acceptance Range
367-12-4	Surrogate: SURR: 2-Fluorophenol	59.2 %									20-108
4165-62-2	Surrogate: SURR: Phenol-d5	60.6 %									23-114
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	61.7 %									22-108
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	70.9 %									21-113
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	48.2 %									19-110
1718-51-0	Surrogate: SURR: Terphenyl-d14	63.8 %									24-116

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.65	5	EPA 8081B	11/19/2018 07:31	11/21/2018 12:16	TJD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-55-9	4,4'-DDE	ND		ug/kg dry	1.65	5	EPA 8081B	11/19/2018 07:31	11/21/2018 12:16	TJD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-29-3	4,4'-DDT	14.3		ug/kg dry	1.65	5	EPA 8081B	11/19/2018 07:31	11/21/2018 12:16	TJD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
309-00-2	Aldrin	ND		ug/kg dry	1.65	5	EPA 8081B	11/19/2018 07:31	11/21/2018 12:16	TJD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-84-6	alpha-BHC	ND		ug/kg dry	1.65	5	EPA 8081B	11/19/2018 07:31	11/21/2018 12:16	TJD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.65	5	EPA 8081B	11/19/2018 07:31	11/21/2018 12:16	TJD
							Certifications:	NELAC-NY10854,NJDEP		
319-85-7	beta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B	11/19/2018 07:31	11/21/2018 12:16	TJD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-86-8	delta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B	11/19/2018 07:31	11/21/2018 12:16	TJD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
60-57-1	Dieldrin	ND		ug/kg dry	1.65	5	EPA 8081B	11/19/2018 07:31	11/21/2018 12:16	TJD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
959-98-8	Endosulfan I	ND		ug/kg dry	1.65	5	EPA 8081B	11/19/2018 07:31	11/21/2018 12:16	TJD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
33213-65-9	Endosulfan II	ND		ug/kg dry	1.65	5	EPA 8081B	11/19/2018 07:31	11/21/2018 12:16	TJD
							Certifications:	CTDOH,NELAC-NY10854		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.65	5	EPA 8081B	11/19/2018 07:31	11/21/2018 12:16	TJD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-20-8	Endrin	ND		ug/kg dry	1.65	5	EPA 8081B	11/19/2018 07:31	11/21/2018 12:16	TJD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.65	5	EPA 8081B	11/19/2018 07:31	11/21/2018 12:16	TJD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
76-44-8	Heptachlor	ND		ug/kg dry	1.65	5	EPA 8081B	11/19/2018 07:31	11/21/2018 12:16	TJD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		



Sample Information

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Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	105 %								
877-09-8	Surrogate: Tetrachloro-m-xylene	65.6 %								

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 18:44	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 18:44	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 18:44	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 18:44	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 18:44	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 18:44	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 18:44	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications:	11/19/2018 07:31	11/21/2018 18:44	TJD
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	60.9 %								
2051-24-3	Surrogate: Decachlorobiphenyl	45.3 %								

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	4660		mg/kg dry	5.37	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:12	KML
7440-36-0	Antimony	2.72		mg/kg dry	2.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:12	KML
7440-38-2	Arsenic	5.36		mg/kg dry	1.61	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:12	KML
7440-39-3	Barium	279		mg/kg dry	2.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:12	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.054	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:12	KML



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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	Cadmium	1.82		mg/kg dry	0.322	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:12	KML
7440-70-2	Calcium	12000		mg/kg dry	5.37	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:12	KML
7440-47-3	Chromium	110		mg/kg dry	0.537	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:12	KML
7440-48-4	Cobalt	9.50		mg/kg dry	0.430	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:12	KML
7440-50-8	Copper	181		mg/kg dry	2.15	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:12	KML
7439-89-6	Iron	17300		mg/kg dry	26.9	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:12	KML
7439-92-1	Lead	897		mg/kg dry	0.537	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:12	KML
7439-95-4	Magnesium	2010		mg/kg dry	5.37	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:12	KML
7439-96-5	Manganese	282		mg/kg dry	0.537	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:12	KML
7440-02-0	Nickel	26.9		mg/kg dry	1.07	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:12	KML
7440-09-7	Potassium	1160		mg/kg dry	5.37	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:12	KML
7782-49-2	Selenium	ND		mg/kg dry	2.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:12	KML
7440-22-4	Silver	ND		mg/kg dry	0.537	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:12	KML
7440-23-5	Sodium	705		mg/kg dry	53.7	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:12	KML
7440-28-0	Thallium	ND		mg/kg dry	2.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:12	KML
7440-62-2	Vanadium	23.3		mg/kg dry	1.07	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:12	KML
7440-66-6	Zinc	897		mg/kg dry	2.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:12	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.957		mg/kg dry	0.0322	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/15/2018 09:32	11/15/2018 13:32	SY



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Total Solids

Log-in Notes:

Sample Notes:

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	93.1		%	0.100	1	SM 2540G Certifications: CTDOH	11/19/2018 12:52	11/19/2018 16:23	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.537	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/20/2018 08:40	11/20/2018 16:40	MAC

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	110		mg/kg	0.500	1	Calculation Certifications:	11/30/2018 14:23	11/30/2018 14:34	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	0.693		mg/kg dry	0.537	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/21/2018 07:23	11/21/2018 14:53	JTV

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:18		
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:18		
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:18		
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:18		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:18		
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:18		



Sample Information

Client Sample ID: SB-59A					York Sample ID: 18K0528-10
<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 10:18 am	<u>Date Received</u> 11/14/2018	

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:18		
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:18		
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:18		
	NMeFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:18		
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:18		
	NEtFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:18		
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:18		
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:18		
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:18		
Surrogate Recoveries		Result	Acceptance Range							
	Surrogate: 13C-PFHxA	%	70-130							
	Surrogate: 13C-PFDA	%	70-130							
	Surrogate: d5-NEtFOSAA	%	70-130							

Sample Information

Client Sample ID: SB-59B					York Sample ID: 18K0528-11
<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 10:29 am	<u>Date Received</u> 11/14/2018	

Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:47	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:47	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:47	LLJ



Sample Information

Client Sample ID: SB-59B

York Sample ID: 18K0528-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 10:29 am

11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:47	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:47	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:47	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:47	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:47	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:47	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	55	110	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:47	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:47	LLJ
67-64-1	Acetone	10	J	ug/kg dry	5.5	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:47	LLJ
71-43-2	Benzene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:47	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:47	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:47	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:47	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:47	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:47	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:47	LLJ
75-09-2	Methylene chloride	19		ug/kg dry	5.5	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:47	LLJ
91-20-3	Naphthalene	4.0	J, B	ug/kg dry	2.7	11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:47	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:47	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:47	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 07:30	11/17/2018 05:47	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.5	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 07:30	11/17/2018 05:47	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:47	LLJ



Sample Information

Client Sample ID: SB-59B

York Sample ID: 18K0528-11

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 10:29 am	<u>Date Received</u> 11/14/2018
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Volatile Organics, NYSDEC Part 375 List

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
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:47	LLJ
127-18-4	Tetrachloroethylene	88		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:47	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:47	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:47	LLJ
79-01-6	Trichloroethylene	4.1	J	ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:47	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 07:30	11/17/2018 05:47	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.2	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/16/2018 07:30	11/17/2018 05:47	LLJ
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	91.8 %			77-125						
2037-26-5	Surrogate: SURR: Toluene-d8	111 %			85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	114 %			76-130						

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 12:31	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 12:31	KH
83-32-9	Acenaphthene	132		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 12:31	KH
208-96-8	Acenaphthylene	369		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 12:31	KH
120-12-7	Anthracene	588		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 12:31	KH
56-55-3	Benzo(a)anthracene	526		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 12:31	KH
50-32-8	Benzo(a)pyrene	528		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 12:31	KH
205-99-2	Benzo(b)fluoranthene	572		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 12:31	KH
191-24-2	Benzo(g,h,i)perylene	717		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 12:31	KH
207-08-9	Benzo(k)fluoranthene	497		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 12:31	KH



Sample Information

Client Sample ID: SB-59B

York Sample ID: 18K0528-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 10:29 am

11/14/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
218-01-9	Chrysene	505		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 12:31	KH
53-70-3	Dibenzo(a,h)anthracene	146		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 12:31	KH
132-64-9	Dibenzofuran	223		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 12:31	KH
206-44-0	Fluoranthene	1380		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 12:31	KH
86-73-7	Fluorene	124		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 12:31	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 12:31	KH
193-39-5	Indeno(1,2,3-cd)pyrene	629		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 12:31	KH
91-20-3	Naphthalene	300		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 12:31	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 12:31	KH
85-01-8	Phenanthrene	1350		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 12:31	KH
108-95-2	Phenol	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 12:31	KH
129-00-0	Pyrene	1110		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 12:31	KH

Surrogate Recoveries

Result

Acceptance Range

367-12-4	Surrogate: SURR: 2-Fluorophenol	58.6 %	20-108
4165-62-2	Surrogate: SURR: Phenol-d5	62.8 %	23-114
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	60.5 %	22-108
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	68.4 %	21-113
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	61.6 %	19-110
1718-51-0	Surrogate: SURR: Terphenyl-d14	69.2 %	24-116

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 12:31	TJD
72-55-9	4,4'-DDE	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 12:31	TJD
50-29-3	4,4'-DDT	20.4		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 12:31	TJD



Sample Information

Client Sample ID: SB-59B

York Sample ID: 18K0528-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 10:29 am

11/14/2018

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
309-00-2	Aldrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 12:31	TJD
319-84-6	alpha-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 12:31	TJD
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/19/2018 07:31	11/21/2018 12:31	TJD
319-85-7	beta-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 12:31	TJD
319-86-8	delta-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 12:31	TJD
60-57-1	Dieldrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 12:31	TJD
959-98-8	Endosulfan I	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 12:31	TJD
33213-65-9	Endosulfan II	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/19/2018 07:31	11/21/2018 12:31	TJD
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 12:31	TJD
72-20-8	Endrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 12:31	TJD
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 12:31	TJD
76-44-8	Heptachlor	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 12:31	TJD
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	90.0 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	71.9 %	30-150							

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 18:58	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 18:58	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 18:58	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 18:58	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 18:58	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 18:58	TJD



Sample Information

Client Sample ID: SB-59B

York Sample ID: 18K0528-11

York Project (SDG) No.

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Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 18:58	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications:	11/19/2018 07:31	11/21/2018 18:58	TJD
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	63.9 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	47.8 %	30-140							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	9530		mg/kg dry	5.48	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:14	KML
7440-36-0	Antimony	ND		mg/kg dry	2.74	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:14	KML
7440-38-2	Arsenic	7.64		mg/kg dry	1.64	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:14	KML
7440-39-3	Barium	594		mg/kg dry	2.74	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:14	KML
7440-41-7	Beryllium	2.36		mg/kg dry	0.055	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:14	KML
7440-43-9	Cadmium	1.85		mg/kg dry	0.329	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:14	KML
7440-70-2	Calcium	20900		mg/kg dry	5.48	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:14	KML
7440-47-3	Chromium	44.0		mg/kg dry	0.548	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:14	KML
7440-48-4	Cobalt	19.9		mg/kg dry	0.438	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:14	KML
7440-50-8	Copper	280		mg/kg dry	2.19	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:14	KML
7439-89-6	Iron	25700		mg/kg dry	27.4	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:14	KML
7439-92-1	Lead	1050		mg/kg dry	0.548	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:14	KML
7439-95-4	Magnesium	3190		mg/kg dry	5.48	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:14	KML
7439-96-5	Manganese	325		mg/kg dry	0.548	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:14	KML
7440-02-0	Nickel	42.4		mg/kg dry	1.10	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:14	KML



Sample Information

Client Sample ID: SB-59B

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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	Potassium	2300		mg/kg dry	5.48	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:14	KML
7782-49-2	Selenium	ND		mg/kg dry	2.74	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:14	KML
7440-22-4	Silver	ND		mg/kg dry	0.548	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:14	KML
7440-23-5	Sodium	1170		mg/kg dry	54.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:14	KML
7440-28-0	Thallium	ND		mg/kg dry	2.74	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:14	KML
7440-62-2	Vanadium	31.0		mg/kg dry	1.10	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:14	KML
7440-66-6	Zinc	2240		mg/kg dry	2.74	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:14	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.734		mg/kg dry	0.0329	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/15/2018 09:32	11/15/2018 13:43	SY

Total Solids

Log-in Notes:

Sample Notes:

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	91.3		%	0.100	1	SM 2540G Certifications: CTDOH	11/19/2018 12:52	11/19/2018 16:23	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.548	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/20/2018 08:40	11/20/2018 16:40	MAC

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	44.0		mg/kg	0.500	1	Calculation Certifications:	11/30/2018 14:23	11/30/2018 14:34	PAM



Sample Information

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Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.548	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/21/2018 07:23	11/21/2018 14:53	JTV

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:29		
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:29		
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:29		
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:29		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:29		
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:29		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:29		
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:29		
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:29		
	NMeFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:29		
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:29		
	NEtFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:29		
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:29		
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:29		
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:29		
	Surrogate Recoveries	Result		Acceptance Range						
	Surrogate: 13C-PFHxA	%		70-130						
	Surrogate: 13C-PFDA	%		70-130						
	Surrogate: d5-NEtFOSAA	%		70-130						



Sample Information

Client Sample ID: SB-59B

York Sample ID: 18K0528-11

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 10:29 am	<u>Date Received</u> 11/14/2018
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Sample Information

Client Sample ID: SB-59C

York Sample ID: 18K0528-12

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 10:40 am	<u>Date Received</u> 11/14/2018
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Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 14:36	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 14:36	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 14:36	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 14:36	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 14:36	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 14:36	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 14:36	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 14:36	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 14:36	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	52	100	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 14:36	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 14:36	LLJ
67-64-1	Acetone	6.4	J	ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 14:36	LLJ
71-43-2	Benzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 14:36	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 14:36	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 14:36	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 14:36	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 14:36	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 14:36	LLJ



Sample Information

Client Sample ID: SB-59C

York Sample ID: 18K0528-12

York Project (SDG) No.

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Volatile Organics, NYSDEC Part 375 List

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
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,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 14:36	LLJ
75-09-2	Methylene chloride	21		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 14:36	LLJ
91-20-3	Naphthalene	ND		ug/kg dry	2.6	10	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 14:36	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 14:36	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 14:36	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/17/2018 11:37	11/17/2018 14:36	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/17/2018 11:37	11/17/2018 14:36	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 14:36	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 14:36	LLJ
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 14:36	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 14:36	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 14:36	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 14:36	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 14:36	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.7	15	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/17/2018 11:37	11/17/2018 14:36	LLJ
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	96.4 %	77-125								
2037-26-5	Surrogate: SURR: Toluene-d8	101 %	85-120								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	98.2 %	76-130								

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	43.3	86.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:30	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	43.3	86.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:30	KH
83-32-9	Acenaphthene	ND		ug/kg dry	43.3	86.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:30	KH



Sample Information

Client Sample ID: SB-59C

York Sample ID: 18K0528-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 10:40 am

11/14/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
208-96-8	Acenaphthylene	ND		ug/kg dry	43.3	86.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:30	KH
120-12-7	Anthracene	ND		ug/kg dry	43.3	86.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:30	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	43.3	86.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:30	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	43.3	86.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:30	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	43.3	86.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:30	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	43.3	86.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:30	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	43.3	86.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:30	KH
218-01-9	Chrysene	ND		ug/kg dry	43.3	86.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:30	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	43.3	86.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:30	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	43.3	86.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:30	KH
206-44-0	Fluoranthene	ND		ug/kg dry	43.3	86.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:30	KH
86-73-7	Fluorene	ND		ug/kg dry	43.3	86.4	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:30	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	43.3	86.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:30	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	43.3	86.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:30	KH
91-20-3	Naphthalene	ND		ug/kg dry	43.3	86.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:30	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	43.3	86.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:30	KH
85-01-8	Phenanthrene	ND		ug/kg dry	43.3	86.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:30	KH
108-95-2	Phenol	ND		ug/kg dry	43.3	86.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:30	KH
129-00-0	Pyrene	ND		ug/kg dry	43.3	86.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:30	KH
	Surrogate Recoveries	Result			Acceptance Range						
367-12-4	Surrogate: SURR: 2-Fluorophenol	72.3 %			20-108						
4165-62-2	Surrogate: SURR: Phenol-d5	71.8 %			23-114						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	63.2 %			22-108						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	76.2 %			21-113						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	66.5 %			19-110						
1718-51-0	Surrogate: SURR: Terphenyl-d14	78.3 %			24-116						



Sample Information

Client Sample ID: SB-59C

York Sample ID: 18K0528-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 10:40 am

11/14/2018

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 12:46	TJD
72-55-9	4,4'-DDE	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 12:46	TJD
50-29-3	4,4'-DDT	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 12:46	TJD
309-00-2	Aldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 12:46	TJD
319-84-6	alpha-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 12:46	TJD
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/19/2018 07:31	11/21/2018 12:46	TJD
319-85-7	beta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 12:46	TJD
319-86-8	delta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 12:46	TJD
60-57-1	Dieldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 12:46	TJD
959-98-8	Endosulfan I	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 12:46	TJD
33213-65-9	Endosulfan II	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/19/2018 07:31	11/21/2018 12:46	TJD
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 12:46	TJD
72-20-8	Endrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 12:46	TJD
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 12:46	TJD
76-44-8	Heptachlor	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 12:46	TJD
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	80.9 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	67.0 %	30-150							

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 19:25	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 19:25	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 19:25	TJD



Sample Information

Client Sample ID: SB-59C

York Sample ID: 18K0528-12

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 10:40 am	<u>Date Received</u> 11/14/2018
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Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 19:25	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 19:25	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 19:25	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 19:25	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications:	11/19/2018 07:31	11/21/2018 19:25	TJD
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	58.9 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	41.8 %	30-140							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	5260		mg/kg dry	5.16	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:16	KML
7440-36-0	Antimony	ND		mg/kg dry	2.58	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:16	KML
7440-38-2	Arsenic	ND		mg/kg dry	1.55	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:16	KML
7440-39-3	Barium	66.8		mg/kg dry	2.58	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:16	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.052	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:16	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.310	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:16	KML
7440-70-2	Calcium	16800		mg/kg dry	5.16	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:16	KML
7440-47-3	Chromium	14.0		mg/kg dry	0.516	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:16	KML
7440-48-4	Cobalt	6.51		mg/kg dry	0.413	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:16	KML
7440-50-8	Copper	9.75		mg/kg dry	2.06	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:16	KML
7439-89-6	Iron	8340		mg/kg dry	25.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:16	KML
7439-92-1	Lead	4.19		mg/kg dry	0.516	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:16	KML
7439-95-4	Magnesium	4780		mg/kg dry	5.16	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:16	KML



Sample Information

Client Sample ID: SB-59C

York Sample ID: 18K0528-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 10:40 am

11/14/2018

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	559		mg/kg dry	0.516	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:16	KML
7440-02-0	Nickel	10.1		mg/kg dry	1.03	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:16	KML
7440-09-7	Potassium	921		mg/kg dry	5.16	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:16	KML
7782-49-2	Selenium	ND		mg/kg dry	2.58	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:16	KML
7440-22-4	Silver	ND		mg/kg dry	0.516	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:16	KML
7440-23-5	Sodium	491		mg/kg dry	51.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:16	KML
7440-28-0	Thallium	ND		mg/kg dry	2.58	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:16	KML
7440-62-2	Vanadium	20.5		mg/kg dry	1.03	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:16	KML
7440-66-6	Zinc	79.0		mg/kg dry	2.58	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:16	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0310	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/15/2018 09:41	11/15/2018 14:56	SY

Total Solids

Log-in Notes:

Sample Notes:

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	96.9		%	0.100	1	SM 2540G Certifications: CTDOH	11/19/2018 12:52	11/19/2018 16:23	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.516	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/20/2018 08:40	11/20/2018 16:40	MAC

Chromium, Trivalent

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB-59C

York Sample ID: 18K0528-12

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 10:40 am	<u>Date Received</u> 11/14/2018
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Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	14.0		mg/kg	0.500	1	Calculation	11/30/2018 14:23	11/30/2018 14:34	PAM

Certifications:

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.516	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/21/2018 07:23	11/21/2018 14:53	JTV

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:40		
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:40		
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:40		
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:40		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:40		
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:40		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:40		
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:40		
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:40		
	NMeFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:40		
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:40		
	NEtFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:40		
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:40		
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:40		
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:40		



Sample Information

Client Sample ID: SB-59C

York Sample ID: 18K0528-12

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 10:40 am	<u>Date Received</u> 11/14/2018
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Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries		Result	Acceptance Range							
	Surrogate: 13C-PFHxA	%		70-130						
	Surrogate: 13C-PFDA	%		70-130						
	Surrogate: d5-NEtFOSAA	%		70-130						

Sample Information

Client Sample ID: SB-60A

York Sample ID: 18K0528-13

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 10:57 am	<u>Date Received</u> 11/14/2018
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Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:06	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:06	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:06	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:06	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:06	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:06	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:06	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:06	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:06	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	53	110	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:06	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:06	LLJ
67-64-1	Acetone	29		ug/kg dry	5.3	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:06	LLJ



Sample Information

Client Sample ID: SB-60A

York Sample ID: 18K0528-13

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 10:57 am

11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
71-43-2	Benzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:06	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:06	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:06	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:06	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:06	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:06	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:06	LLJ
75-09-2	Methylene chloride	15		ug/kg dry	5.3	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:06	LLJ
91-20-3	Naphthalene	2.7	J, B	ug/kg dry	2.6	11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:06	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:06	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:06	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/17/2018 11:37	11/17/2018 15:06	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.3	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/17/2018 11:37	11/17/2018 15:06	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:06	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:06	LLJ
127-18-4	Tetrachloroethylene	78		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:06	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:06	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:06	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:06	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:06	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.9	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/17/2018 11:37	11/17/2018 15:06	LLJ

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	93.5 %	77-125
2037-26-5	Surrogate: SURRE: Toluene-d8	111 %	85-120
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	106 %	76-130



Sample Information

Client Sample ID: SB-60A

York Sample ID: 18K0528-13

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 10:57 am

11/14/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 13:01	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 13:01	KH
83-32-9	Acenaphthene	140		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 13:01	KH
208-96-8	Acenaphthylene	133		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 13:01	KH
120-12-7	Anthracene	323		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 13:01	KH
56-55-3	Benzo(a)anthracene	874		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 13:01	KH
50-32-8	Benzo(a)pyrene	793		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 13:01	KH
205-99-2	Benzo(b)fluoranthene	742		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 13:01	KH
191-24-2	Benzo(g,h,i)perylene	487		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 13:01	KH
207-08-9	Benzo(k)fluoranthene	662		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 13:01	KH
218-01-9	Chrysene	918		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 13:01	KH
53-70-3	Dibenzo(a,h)anthracene	171		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 13:01	KH
132-64-9	Dibenzofuran	75.1	J	ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 13:01	KH
206-44-0	Fluoranthene	1750		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 13:01	KH
86-73-7	Fluorene	117		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 13:01	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 13:01	KH
193-39-5	Indeno(1,2,3-cd)pyrene	572		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 13:01	KH
91-20-3	Naphthalene	59.7	J	ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 13:01	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 13:01	KH
85-01-8	Phenanthrene	1600		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 13:01	KH
108-95-2	Phenol	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 13:01	KH



Sample Information

Client Sample ID: SB-60A

York Sample ID: 18K0528-13

York Project (SDG) No.

Client Project ID

Matrix

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18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 10:57 am

11/14/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
129-00-0	Pyrene	1740		ug/kg dry	44.0	87.8	2	EPA 8270D	11/20/2018 14:17	11/21/2018 13:01	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
	Surrogate Recoveries	Result									Acceptance Range
367-12-4	Surrogate: SURR: 2-Fluorophenol	66.7 %									20-108
4165-62-2	Surrogate: SURR: Phenol-d5	69.6 %									23-114
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	65.3 %									22-108
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	73.5 %									21-113
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	65.5 %									19-110
1718-51-0	Surrogate: SURR: Terphenyl-d14	75.1 %									24-116

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.65	5	EPA 8081B	11/19/2018 07:31	11/21/2018 13:01	TJD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-55-9	4,4'-DDE	ND		ug/kg dry	1.65	5	EPA 8081B	11/19/2018 07:31	11/21/2018 13:01	TJD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-29-3	4,4'-DDT	15.3		ug/kg dry	1.65	5	EPA 8081B	11/19/2018 07:31	11/21/2018 13:01	TJD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
309-00-2	Aldrin	ND		ug/kg dry	1.65	5	EPA 8081B	11/19/2018 07:31	11/21/2018 13:01	TJD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-84-6	alpha-BHC	ND		ug/kg dry	1.65	5	EPA 8081B	11/19/2018 07:31	11/21/2018 13:01	TJD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.65	5	EPA 8081B	11/19/2018 07:31	11/21/2018 13:01	TJD
							Certifications:	NELAC-NY10854,NJDEP		
319-85-7	beta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B	11/19/2018 07:31	11/21/2018 13:01	TJD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-86-8	delta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B	11/19/2018 07:31	11/21/2018 13:01	TJD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
60-57-1	Dieldrin	ND		ug/kg dry	1.65	5	EPA 8081B	11/19/2018 07:31	11/21/2018 13:01	TJD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
959-98-8	Endosulfan I	ND		ug/kg dry	1.65	5	EPA 8081B	11/19/2018 07:31	11/21/2018 13:01	TJD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
33213-65-9	Endosulfan II	ND		ug/kg dry	1.65	5	EPA 8081B	11/19/2018 07:31	11/21/2018 13:01	TJD
							Certifications:	CTDOH,NELAC-NY10854		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.65	5	EPA 8081B	11/19/2018 07:31	11/21/2018 13:01	TJD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-20-8	Endrin	ND		ug/kg dry	1.65	5	EPA 8081B	11/19/2018 07:31	11/21/2018 13:01	TJD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.65	5	EPA 8081B	11/19/2018 07:31	11/21/2018 13:01	TJD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
76-44-8	Heptachlor	ND		ug/kg dry	1.65	5	EPA 8081B	11/19/2018 07:31	11/21/2018 13:01	TJD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		



Sample Information

Client Sample ID: SB-60A

York Sample ID: 18K0528-13

York Project (SDG) No.

Client Project ID

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18K0528

37321-STX 27-10 49th Ave

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11/14/2018

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	109 %								
877-09-8	Surrogate: Tetrachloro-m-xylene	72.4 %								

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0175	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 19:38	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0175	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 19:38	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0175	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 19:38	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0175	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 19:38	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0175	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 19:38	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0175	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 19:38	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0175	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 19:38	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0175	1	EPA 8082A Certifications:	11/19/2018 07:31	11/21/2018 19:38	TJD
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	60.9 %								
2051-24-3	Surrogate: Decachlorobiphenyl	44.3 %								

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	5460		mg/kg dry	5.27	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:18	KML
7440-36-0	Antimony	ND		mg/kg dry	2.63	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:18	KML
7440-38-2	Arsenic	3.33		mg/kg dry	1.58	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:18	KML
7440-39-3	Barium	244		mg/kg dry	2.63	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:18	KML
7440-41-7	Beryllium	0.271		mg/kg dry	0.053	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:18	KML



Sample Information

Client Sample ID: SB-60A

York Sample ID: 18K0528-13

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 10:57 am

11/14/2018

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	Cadmium	0.981		mg/kg dry	0.316	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:18	KML
7440-70-2	Calcium	15500		mg/kg dry	5.27	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:18	KML
7440-47-3	Chromium	15.8		mg/kg dry	0.527	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:18	KML
7440-48-4	Cobalt	7.11		mg/kg dry	0.421	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:18	KML
7440-50-8	Copper	74.0		mg/kg dry	2.11	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:18	KML
7439-89-6	Iron	12900		mg/kg dry	26.3	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:18	KML
7439-92-1	Lead	411		mg/kg dry	0.527	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:18	KML
7439-95-4	Magnesium	2730		mg/kg dry	5.27	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:18	KML
7439-96-5	Manganese	226		mg/kg dry	0.527	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:18	KML
7440-02-0	Nickel	16.7		mg/kg dry	1.05	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:18	KML
7440-09-7	Potassium	1370		mg/kg dry	5.27	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:18	KML
7782-49-2	Selenium	ND		mg/kg dry	2.63	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:18	KML
7440-22-4	Silver	ND		mg/kg dry	0.527	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:18	KML
7440-23-5	Sodium	288		mg/kg dry	52.7	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:18	KML
7440-28-0	Thallium	ND		mg/kg dry	2.63	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:18	KML
7440-62-2	Vanadium	19.0		mg/kg dry	1.05	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:18	KML
7440-66-6	Zinc	372		mg/kg dry	2.63	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:18	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.339		mg/kg dry	0.0316	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/15/2018 09:41	11/15/2018 15:03	SY



Sample Information

Client Sample ID: SB-60A

York Sample ID: 18K0528-13

York Project (SDG) No.

Client Project ID

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Collection Date/Time

Date Received

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Soil

November 13, 2018 10:57 am

11/14/2018

Total Solids

Log-in Notes:

Sample Notes:

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	95.0		%	0.100	1	SM 2540G Certifications: CTDOH	11/19/2018 12:52	11/19/2018 16:23	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.527	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/20/2018 08:40	11/20/2018 16:40	MAC

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	15.8		mg/kg	0.500	1	Calculation Certifications:	11/30/2018 14:23	11/30/2018 14:34	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.527	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/21/2018 07:23	11/21/2018 14:53	JTV

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:57		
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:57		
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:57		
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:57		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:57		
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:57		



Sample Information

Client Sample ID: SB-60A

York Sample ID: 18K0528-13

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 10:57 am	<u>Date Received</u> 11/14/2018
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Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:57		
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:57		
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:57		
	NMeFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:57		
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:57		
	NEtFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:57		
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:57		
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:57		
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:57		
Surrogate Recoveries		Result	Acceptance Range							
	Surrogate: 13C-PFHxA	%	70-130							
	Surrogate: 13C-PFDA	%	70-130							
	Surrogate: d5-NEtFOSAA	%	70-130							

Sample Information

Client Sample ID: SB-60B

York Sample ID: 18K0528-14

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 11:10 am	<u>Date Received</u> 11/14/2018
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Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:35	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:35	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:35	LLJ



Sample Information

Client Sample ID: SB-60B

York Sample ID: 18K0528-14

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

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Volatile Organics, NYSDEC Part 375 List

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
95-63-6	1,2,4-Trimethylbenzene	ND	IS-LO	ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:35	LLJ
95-50-1	1,2-Dichlorobenzene	ND	IS-LO	ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:35	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:35	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND	IS-LO	ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:35	LLJ
541-73-1	1,3-Dichlorobenzene	ND	IS-LO	ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:35	LLJ
106-46-7	1,4-Dichlorobenzene	ND	IS-LO	ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:35	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	56	110	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:35	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:35	LLJ
67-64-1	Acetone	ND		ug/kg dry	5.6	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:35	LLJ
71-43-2	Benzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:35	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:35	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:35	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:35	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:35	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:35	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:35	LLJ
75-09-2	Methylene chloride	13		ug/kg dry	5.6	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:35	LLJ
91-20-3	Naphthalene	4.1	IS-LO, J, B	ug/kg dry	2.8	11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:35	LLJ
104-51-8	n-Butylbenzene	ND	IS-LO	ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:35	LLJ
103-65-1	n-Propylbenzene	ND	IS-LO	ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:35	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/17/2018 11:37	11/17/2018 15:35	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.6	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/17/2018 11:37	11/17/2018 15:35	LLJ
135-98-8	sec-Butylbenzene	ND	IS-LO	ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:35	LLJ



Sample Information

Client Sample ID: SB-60B

York Sample ID: 18K0528-14

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 11:10 am

11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
98-06-6	tert-Butylbenzene	ND	IS-LO	ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:35	LLJ
127-18-4	Tetrachloroethylene	120		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:35	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:35	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:35	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:35	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 15:35	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.5	17	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/17/2018 11:37	11/17/2018 15:35	LLJ

Surrogate Recoveries

Result

Acceptance Range

17060-07-0	Surrogate: <i>SURR: 1,2-Dichloroethane-d4</i>	94.6 %		77-125
2037-26-5	Surrogate: <i>SURR: Toluene-d8</i>	120 %		85-120
460-00-4	Surrogate: <i>SURR: p-Bromofluorobenzene</i>	112 %		76-130

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	46.9	93.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:59	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	46.9	93.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:59	KH
83-32-9	Acenaphthene	141		ug/kg dry	46.9	93.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:59	KH
208-96-8	Acenaphthylene	114		ug/kg dry	46.9	93.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:59	KH
120-12-7	Anthracene	364		ug/kg dry	46.9	93.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:59	KH
56-55-3	Benzo(a)anthracene	880		ug/kg dry	46.9	93.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:59	KH
50-32-8	Benzo(a)pyrene	925		ug/kg dry	46.9	93.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:59	KH
205-99-2	Benzo(b)fluoranthene	771		ug/kg dry	46.9	93.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:59	KH
191-24-2	Benzo(g,h,i)perylene	579		ug/kg dry	46.9	93.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:59	KH
207-08-9	Benzo(k)fluoranthene	780		ug/kg dry	46.9	93.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:59	KH



Sample Information

Client Sample ID: SB-60B

York Sample ID: 18K0528-14

York Project (SDG) No.

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Matrix

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November 13, 2018 11:10 am

11/14/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
218-01-9	Chrysene	888		ug/kg dry	46.9	93.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:59	KH
53-70-3	Dibenzo(a,h)anthracene	132		ug/kg dry	46.9	93.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:59	KH
132-64-9	Dibenzofuran	111		ug/kg dry	46.9	93.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:59	KH
206-44-0	Fluoranthene	1770		ug/kg dry	46.9	93.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:59	KH
86-73-7	Fluorene	126		ug/kg dry	46.9	93.5	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:59	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	46.9	93.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:59	KH
193-39-5	Indeno(1,2,3-cd)pyrene	624		ug/kg dry	46.9	93.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:59	KH
91-20-3	Naphthalene	95.7		ug/kg dry	46.9	93.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:59	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	46.9	93.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:59	KH
85-01-8	Phenanthrene	1550		ug/kg dry	46.9	93.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:59	KH
108-95-2	Phenol	ND		ug/kg dry	46.9	93.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:59	KH
129-00-0	Pyrene	1780		ug/kg dry	46.9	93.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 17:59	KH

Surrogate Recoveries

Result

Acceptance Range

367-12-4	Surrogate: SURR: 2-Fluorophenol	72.5 %	20-108
4165-62-2	Surrogate: SURR: Phenol-d5	75.5 %	23-114
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	67.3 %	22-108
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	76.2 %	21-113
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	69.8 %	19-110
1718-51-0	Surrogate: SURR: Terphenyl-d14	78.0 %	24-116

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 13:16	TJD
72-55-9	4,4'-DDE	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 13:16	TJD
50-29-3	4,4'-DDT	13.3		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 13:16	TJD



Sample Information

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Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
309-00-2	Aldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 13:16	TJD
319-84-6	alpha-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 13:16	TJD
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/19/2018 07:31	11/21/2018 13:16	TJD
319-85-7	beta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 13:16	TJD
319-86-8	delta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 13:16	TJD
60-57-1	Dieldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 13:16	TJD
959-98-8	Endosulfan I	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 13:16	TJD
33213-65-9	Endosulfan II	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/19/2018 07:31	11/21/2018 13:16	TJD
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 13:16	TJD
72-20-8	Endrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 13:16	TJD
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 13:16	TJD
76-44-8	Heptachlor	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 13:16	TJD
	Surrogate Recoveries	Result					Acceptance Range			
2051-24-3	Surrogate: Decachlorobiphenyl	98.5 %					30-150			
877-09-8	Surrogate: Tetrachloro-m-xylene	79.2 %					30-150			

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0188	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 19:52	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0188	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 19:52	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0188	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 19:52	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0188	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 19:52	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0188	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 19:52	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0188	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 19:52	TJD



Sample Information

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Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11096-82-5	Aroclor 1260	0.0236		mg/kg dry	0.0188	1	EPA 8082A	11/19/2018 07:31	11/21/2018 19:52	TJD
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
1336-36-3	* Total PCBs	0.0236		mg/kg dry	0.0188	1	EPA 8082A	11/19/2018 07:31	11/21/2018 19:52	TJD
							Certifications:			
	Surrogate Recoveries	Result					Acceptance Range			
877-09-8	Surrogate: Tetrachloro-m-xylene	60.4 %					30-140			
2051-24-3	Surrogate: Decachlorobiphenyl	47.8 %					30-140			

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	7260		mg/kg dry	5.65	1	EPA 6010D	11/15/2018 10:30	11/20/2018 12:20	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-36-0	Antimony	ND		mg/kg dry	2.82	1	EPA 6010D	11/15/2018 10:30	11/20/2018 12:20	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-38-2	Arsenic	4.87		mg/kg dry	1.69	1	EPA 6010D	11/15/2018 10:30	11/20/2018 12:20	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-39-3	Barium	466		mg/kg dry	2.82	1	EPA 6010D	11/15/2018 10:30	11/20/2018 12:20	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-41-7	Beryllium	ND		mg/kg dry	0.056	1	EPA 6010D	11/15/2018 10:30	11/20/2018 12:20	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	Cadmium	1.39		mg/kg dry	0.339	1	EPA 6010D	11/15/2018 10:30	11/20/2018 12:20	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-70-2	Calcium	15100		mg/kg dry	5.65	1	EPA 6010D	11/15/2018 10:30	11/20/2018 12:20	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	Chromium	20.9		mg/kg dry	0.565	1	EPA 6010D	11/15/2018 10:30	11/20/2018 12:20	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-48-4	Cobalt	8.90		mg/kg dry	0.452	1	EPA 6010D	11/15/2018 10:30	11/20/2018 12:20	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	Copper	176		mg/kg dry	2.26	1	EPA 6010D	11/15/2018 10:30	11/20/2018 12:20	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	Iron	16600		mg/kg dry	28.2	1	EPA 6010D	11/15/2018 10:30	11/20/2018 12:20	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	Lead	772		mg/kg dry	0.565	1	EPA 6010D	11/15/2018 10:30	11/20/2018 12:20	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	Magnesium	2590		mg/kg dry	5.65	1	EPA 6010D	11/15/2018 10:30	11/20/2018 12:20	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	Manganese	240		mg/kg dry	0.565	1	EPA 6010D	11/15/2018 10:30	11/20/2018 12:20	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	Nickel	29.5		mg/kg dry	1.13	1	EPA 6010D	11/15/2018 10:30	11/20/2018 12:20	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			



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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	Potassium	1680		mg/kg dry	5.65	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:20	KML
7782-49-2	Selenium	ND		mg/kg dry	2.82	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:20	KML
7440-22-4	Silver	ND		mg/kg dry	0.565	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:20	KML
7440-23-5	Sodium	332		mg/kg dry	56.5	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:20	KML
7440-28-0	Thallium	ND		mg/kg dry	2.82	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:20	KML
7440-62-2	Vanadium	48.5		mg/kg dry	1.13	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:20	KML
7440-66-6	Zinc	450		mg/kg dry	2.82	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:20	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	1.02		mg/kg dry	0.0339	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/15/2018 09:41	11/15/2018 16:09	SY

Total Solids

Log-in Notes:

Sample Notes:

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	88.6		%	0.100	1	SM 2540G Certifications: CTDOH	11/19/2018 12:52	11/19/2018 16:23	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.565	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/20/2018 08:40	11/20/2018 16:40	MAC

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	20.9		mg/kg	0.500	1	Calculation Certifications:	11/30/2018 14:23	11/30/2018 14:34	PAM



Sample Information

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Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.565	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/21/2018 07:23	11/21/2018 14:53	JTV

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 11:10		
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 11:10		
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 11:10		
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 11:10		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 11:10		
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 11:10		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 11:10		
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 11:10		
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 11:10		
	NMeFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 11:10		
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 11:10		
	NEtFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 11:10		
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 11:10		
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 11:10		
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 11:10		
	Surrogate Recoveries	Result		Acceptance Range						
	Surrogate: 13C-PFHxA	%		70-130						
	Surrogate: 13C-PFDA	%		70-130						
	Surrogate: d5-NEtFOSAA	%		70-130						



Sample Information

Client Sample ID: SB-60B

York Sample ID: 18K0528-14

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 11:10 am	<u>Date Received</u> 11/14/2018
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Sample Information

Client Sample ID: SB-60C

York Sample ID: 18K0528-15

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 11:30 am	<u>Date Received</u> 11/14/2018
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Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:05	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:05	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:05	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:05	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:05	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:05	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:05	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:05	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:05	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	58	120	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:05	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:05	LLJ
67-64-1	Acetone	8.4	J	ug/kg dry	5.8	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:05	LLJ
71-43-2	Benzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:05	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:05	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:05	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:05	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:05	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:05	LLJ



Sample Information

Client Sample ID: SB-60C

York Sample ID: 18K0528-15

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 11:30 am

11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:05	LLJ
75-09-2	Methylene chloride	13		ug/kg dry	5.8	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:05	LLJ
91-20-3	Naphthalene	ND		ug/kg dry	2.9	12	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:05	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:05	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:05	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/17/2018 11:37	11/17/2018 16:05	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.8	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/17/2018 11:37	11/17/2018 16:05	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:05	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:05	LLJ
127-18-4	Tetrachloroethylene	10		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:05	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:05	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:05	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:05	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:05	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.7	17	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/17/2018 11:37	11/17/2018 16:05	LLJ
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: Surr: 1,2-Dichloroethane-d4	94.9 %	77-125								
2037-26-5	Surrogate: Surr: Toluene-d8	101 %	85-120								
460-00-4	Surrogate: Surr: p-Bromofluorobenzene	105 %	76-130								

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	48.7	97.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 18:29	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	48.7	97.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 18:29	KH
83-32-9	Acenaphthene	ND		ug/kg dry	48.7	97.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 18:29	KH



Sample Information

Client Sample ID: SB-60C

York Sample ID: 18K0528-15

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 11:30 am

11/14/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
208-96-8	Acenaphthylene	51.2	J	ug/kg dry	48.7	97.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 18:29	KH
120-12-7	Anthracene	59.8	J	ug/kg dry	48.7	97.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 18:29	KH
56-55-3	Benzo(a)anthracene	345		ug/kg dry	48.7	97.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 18:29	KH
50-32-8	Benzo(a)pyrene	404		ug/kg dry	48.7	97.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 18:29	KH
205-99-2	Benzo(b)fluoranthene	325		ug/kg dry	48.7	97.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 18:29	KH
191-24-2	Benzo(g,h,i)perylene	274		ug/kg dry	48.7	97.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 18:29	KH
207-08-9	Benzo(k)fluoranthene	321		ug/kg dry	48.7	97.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 18:29	KH
218-01-9	Chrysene	338		ug/kg dry	48.7	97.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 18:29	KH
53-70-3	Dibenzo(a,h)anthracene	51.2	J	ug/kg dry	48.7	97.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 18:29	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	48.7	97.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 18:29	KH
206-44-0	Fluoranthene	482		ug/kg dry	48.7	97.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 18:29	KH
86-73-7	Fluorene	ND		ug/kg dry	48.7	97.1	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 18:29	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	48.7	97.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 18:29	KH
193-39-5	Indeno(1,2,3-cd)pyrene	252		ug/kg dry	48.7	97.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 18:29	KH
91-20-3	Naphthalene	ND		ug/kg dry	48.7	97.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 18:29	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	48.7	97.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 18:29	KH
85-01-8	Phenanthrene	204		ug/kg dry	48.7	97.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 18:29	KH
108-95-2	Phenol	ND		ug/kg dry	48.7	97.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 18:29	KH
129-00-0	Pyrene	529		ug/kg dry	48.7	97.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 18:29	KH
Surrogate Recoveries		Result	Acceptance Range								
367-12-4	Surrogate: SURR: 2-Fluorophenol	76.2 %	20-108								
4165-62-2	Surrogate: SURR: Phenol-d5	79.6 %	23-114								
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	71.6 %	22-108								
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	80.5 %	21-113								
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	76.8 %	19-110								



Sample Information

Client Sample ID: SB-60C

York Sample ID: 18K0528-15

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 11:30 am

11/14/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1718-51-0	Surrogate: SURR: Terphenyl-d14	80.5 %			24-116						

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 13:31	TJD
72-55-9	4,4'-DDE	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 13:31	TJD
50-29-3	4,4'-DDT	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 13:31	TJD
309-00-2	Aldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 13:31	TJD
319-84-6	alpha-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 13:31	TJD
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/19/2018 07:31	11/21/2018 13:31	TJD
319-85-7	beta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 13:31	TJD
319-86-8	delta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 13:31	TJD
60-57-1	Dieldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 13:31	TJD
959-98-8	Endosulfan I	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 13:31	TJD
33213-65-9	Endosulfan II	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/19/2018 07:31	11/21/2018 13:31	TJD
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 13:31	TJD
72-20-8	Endrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 13:31	TJD
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 13:31	TJD
76-44-8	Heptachlor	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 13:31	TJD
	Surrogate Recoveries	Result								
2051-24-3	Surrogate: Decachlorobiphenyl	63.9 %								
877-09-8	Surrogate: Tetrachloro-m-xylene	69.6 %								
					Acceptance Range					
					30-150					
					30-150					

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

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: SB-60C

York Sample ID: 18K0528-15

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 11:30 am

11/14/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0194	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 20:05	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0194	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 20:05	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0194	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 20:05	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0194	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 20:05	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0194	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 20:05	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0194	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 20:05	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0194	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 20:05	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0194	1	EPA 8082A Certifications:	11/19/2018 07:31	11/21/2018 20:05	TJD

Surrogate Recoveries

Result

Acceptance Range

877-09-8	Surrogate: Tetrachloro-m-xylene	60.4 %	30-140
2051-24-3	Surrogate: Decachlorobiphenyl	40.8 %	30-140

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	8620		mg/kg dry	5.82	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:22	KML
7440-36-0	Antimony	ND		mg/kg dry	2.91	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:22	KML
7440-38-2	Arsenic	12.5		mg/kg dry	1.75	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:22	KML
7440-39-3	Barium	202		mg/kg dry	2.91	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:22	KML
7440-41-7	Beryllium	0.130		mg/kg dry	0.058	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:22	KML
7440-43-9	Cadmium	0.857		mg/kg dry	0.349	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:22	KML
7440-70-2	Calcium	15900		mg/kg dry	5.82	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:22	KML
7440-47-3	Chromium	11.2		mg/kg dry	0.582	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:22	KML
7440-48-4	Cobalt	5.85		mg/kg dry	0.466	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:22	KML



Sample Information

Client Sample ID: SB-60C

York Sample ID: 18K0528-15

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 11:30 am	<u>Date Received</u> 11/14/2018
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	54.6		mg/kg dry	2.33	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:22	KML
7439-89-6	Iron	10600		mg/kg dry	29.1	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:22	KML
7439-92-1	Lead	691		mg/kg dry	0.582	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:22	KML
7439-95-4	Magnesium	2480		mg/kg dry	5.82	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:22	KML
7439-96-5	Manganese	362		mg/kg dry	0.582	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:22	KML
7440-02-0	Nickel	11.3		mg/kg dry	1.16	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:22	KML
7440-09-7	Potassium	808		mg/kg dry	5.82	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:22	KML
7782-49-2	Selenium	ND		mg/kg dry	2.91	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:22	KML
7440-22-4	Silver	ND		mg/kg dry	0.582	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:22	KML
7440-23-5	Sodium	1130		mg/kg dry	58.2	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:22	KML
7440-28-0	Thallium	ND		mg/kg dry	2.91	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:22	KML
7440-62-2	Vanadium	21.5		mg/kg dry	1.16	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:22	KML
7440-66-6	Zinc	354		mg/kg dry	2.91	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:22	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.224		mg/kg dry	0.0349	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/15/2018 09:41	11/15/2018 16:25	SY

Total Solids

Log-in Notes:

Sample Notes:

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	85.9		%	0.100	1	SM 2540G Certifications: CTDOH	11/19/2018 12:52	11/19/2018 16:23	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB-60C

York Sample ID: 18K0528-15

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 11:30 am	<u>Date Received</u> 11/14/2018
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Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.582	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/21/2018 08:45	11/21/2018 16:35	MAC

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	11.2		mg/kg	0.500	1	Calculation Certifications:	11/30/2018 14:23	11/30/2018 14:34	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.582	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/21/2018 07:23	11/21/2018 14:53	JTV

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 11:30		
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 11:30		
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 11:30		
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 11:30		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 11:30		
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 11:30		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 11:30		
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 11:30		
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 11:30		
	NMeFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 11:30		
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 11:30		



Sample Information

Client Sample ID: SB-60C

York Sample ID: 18K0528-15

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 11:30 am	<u>Date Received</u> 11/14/2018
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Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	NEtFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 11:30		
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 11:30		
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 11:30		
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 11:30		
	Surrogate Recoveries	Result					Acceptance Range			
	Surrogate: 13C-PFHxA	%					70-130			
	Surrogate: 13C-PFDA	%					70-130			
	Surrogate: d5-NEtFOSAA	%					70-130			

Sample Information

Client Sample ID: SB-61A

York Sample ID: 18K0528-16

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 10:50 am	<u>Date Received</u> 11/14/2018
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Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/21/2018 03:12	11/21/2018 14:09	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/21/2018 03:12	11/21/2018 14:09	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/21/2018 03:12	11/21/2018 14:09	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/21/2018 03:12	11/21/2018 14:09	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/21/2018 03:12	11/21/2018 14:09	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/21/2018 03:12	11/21/2018 14:09	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/21/2018 03:12	11/21/2018 14:09	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/21/2018 03:12	11/21/2018 14:09	LLJ



Sample Information

Client Sample ID: SB-61A

York Sample ID: 18K0528-16

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 10:50 am

11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/21/2018 03:12	11/21/2018 14:09	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	54	110	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/21/2018 03:12	11/21/2018 14:09	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/21/2018 03:12	11/21/2018 14:09	LLJ
67-64-1	Acetone	ND		ug/kg dry	5.4	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/21/2018 03:12	11/21/2018 14:09	LLJ
71-43-2	Benzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/21/2018 03:12	11/21/2018 14:09	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/21/2018 03:12	11/21/2018 14:09	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/21/2018 03:12	11/21/2018 14:09	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/21/2018 03:12	11/21/2018 14:09	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/21/2018 03:12	11/21/2018 14:09	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/21/2018 03:12	11/21/2018 14:09	LLJ
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,PADEP,NJDEP	11/21/2018 03:12	11/21/2018 14:09	LLJ
75-09-2	Methylene chloride	ND		ug/kg dry	5.4	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/21/2018 03:12	11/21/2018 14:09	LLJ
91-20-3	Naphthalene	ND		ug/kg dry	2.7	11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/21/2018 03:12	11/21/2018 14:09	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/21/2018 03:12	11/21/2018 14:09	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/21/2018 03:12	11/21/2018 14:09	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/21/2018 03:12	11/21/2018 14:09	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.4	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/21/2018 03:12	11/21/2018 14:09	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/21/2018 03:12	11/21/2018 14:09	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/21/2018 03:12	11/21/2018 14:09	LLJ
127-18-4	Tetrachloroethylene	26		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/21/2018 03:12	11/21/2018 14:09	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/21/2018 03:12	11/21/2018 14:09	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/21/2018 03:12	11/21/2018 14:09	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/21/2018 03:12	11/21/2018 14:09	LLJ



Sample Information

Client Sample ID: SB-61A

York Sample ID: 18K0528-16

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 10:50 am

11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/21/2018 03:12	11/21/2018 14:09	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.1	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/21/2018 03:12	11/21/2018 14:09	LLJ
	Surrogate Recoveries	Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	92.0 %			77-125						
2037-26-5	Surrogate: SURR: Toluene-d8	105 %			85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	100 %			76-130						

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 13:31	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 13:31	KH
83-32-9	Acenaphthene	270		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 13:31	KH
208-96-8	Acenaphthylene	339		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 13:31	KH
120-12-7	Anthracene	711		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 13:31	KH
56-55-3	Benzo(a)anthracene	1840		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 13:31	KH
50-32-8	Benzo(a)pyrene	1780		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 13:31	KH
205-99-2	Benzo(b)fluoranthene	1650		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 13:31	KH
191-24-2	Benzo(g,h,i)perylene	962		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 13:31	KH
207-08-9	Benzo(k)fluoranthene	1460		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 13:31	KH
218-01-9	Chrysene	1820		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 13:31	KH
53-70-3	Dibenzo(a,h)anthracene	238		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 13:31	KH
132-64-9	Dibenzofuran	227		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 13:31	KH
86-73-7	Fluorene	290		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 13:31	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 13:31	KH



Sample Information

Client Sample ID: SB-61A

York Sample ID: 18K0528-16

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 10:50 am

11/14/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
193-39-5	Indeno(1,2,3-cd)pyrene	1190		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 13:31	KH
91-20-3	Naphthalene	205		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 13:31	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 13:31	KH
85-01-8	Phenanthrene	2160		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 13:31	KH
108-95-2	Phenol	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 13:31	KH
129-00-0	Pyrene	2810		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 14:17	11/21/2018 13:31	KH
Surrogate Recoveries		Result			Acceptance Range						
367-12-4	Surrogate: SURR: 2-Fluorophenol	74.6 %			20-108						
4165-62-2	Surrogate: SURR: Phenol-d5	76.4 %			23-114						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	78.2 %			22-108						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	86.2 %			21-113						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	71.6 %			19-110						
1718-51-0	Surrogate: SURR: Terphenyl-d14	83.2 %			24-116						

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 13:46	TJD
72-55-9	4,4'-DDE	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 13:46	TJD
50-29-3	4,4'-DDT	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 13:46	TJD
309-00-2	Aldrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 13:46	TJD
319-84-6	alpha-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 13:46	TJD
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/19/2018 07:31	11/21/2018 13:46	TJD
319-85-7	beta-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 13:46	TJD
319-86-8	delta-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 13:46	TJD
60-57-1	Dieldrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 13:46	TJD
959-98-8	Endosulfan I	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 13:46	TJD



Sample Information

Client Sample ID: SB-61A

York Sample ID: 18K0528-16

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 10:50 am

11/14/2018

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
33213-65-9	Endosulfan II	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/19/2018 07:31	11/21/2018 13:46	TJD
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 13:46	TJD
72-20-8	Endrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 13:46	TJD
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 13:46	TJD
76-44-8	Heptachlor	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 13:46	TJD
Surrogate Recoveries		Result			Acceptance Range					
2051-24-3	Surrogate: Decachlorobiphenyl	120 %			30-150					
877-09-8	Surrogate: Tetrachloro-m-xylene	80.7 %			30-150					

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 20:19	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 20:19	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 20:19	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 20:19	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 20:19	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 20:19	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 20:19	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications:	11/19/2018 07:31	11/21/2018 20:19	TJD
Surrogate Recoveries		Result			Acceptance Range					
877-09-8	Surrogate: Tetrachloro-m-xylene	57.9 %			30-140					
2051-24-3	Surrogate: Decachlorobiphenyl	48.3 %			30-140					

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

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: SB-61A

York Sample ID: 18K0528-16

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 10:50 am	<u>Date Received</u> 11/14/2018
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	7310		mg/kg dry	5.37	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:25	KML
7440-36-0	Antimony	ND		mg/kg dry	2.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:25	KML
7440-38-2	Arsenic	3.91		mg/kg dry	1.61	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:25	KML
7440-39-3	Barium	263		mg/kg dry	2.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:25	KML
7440-41-7	Beryllium	1.42		mg/kg dry	0.054	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:25	KML
7440-43-9	Cadmium	1.24		mg/kg dry	0.322	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:25	KML
7440-70-2	Calcium	16200		mg/kg dry	5.37	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:25	KML
7440-47-3	Chromium	26.6		mg/kg dry	0.537	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:25	KML
7440-48-4	Cobalt	15.6		mg/kg dry	0.430	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:25	KML
7440-50-8	Copper	231		mg/kg dry	2.15	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:25	KML
7439-89-6	Iron	27200		mg/kg dry	26.9	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:25	KML
7439-92-1	Lead	596		mg/kg dry	0.537	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:25	KML
7439-95-4	Magnesium	2890		mg/kg dry	5.37	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:25	KML
7439-96-5	Manganese	290		mg/kg dry	0.537	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:25	KML
7440-02-0	Nickel	46.6		mg/kg dry	1.07	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:25	KML
7440-09-7	Potassium	2380		mg/kg dry	5.37	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:25	KML
7782-49-2	Selenium	ND		mg/kg dry	2.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:25	KML
7440-22-4	Silver	ND		mg/kg dry	0.537	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:25	KML
7440-23-5	Sodium	538		mg/kg dry	53.7	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:25	KML
7440-28-0	Thallium	ND		mg/kg dry	2.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:25	KML
7440-62-2	Vanadium	31.6		mg/kg dry	1.07	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:25	KML



Sample Information

Client Sample ID: SB-61A

York Sample ID: 18K0528-16

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 10:50 am

11/14/2018

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	Zinc	1330		mg/kg dry	2.69	1	EPA 6010D	11/15/2018 10:30	11/20/2018 12:25	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.469		mg/kg dry	0.0322	1	EPA 7473	11/15/2018 09:41	11/15/2018 16:33	SY
							Certifications:	CTDOH,NJDEP,NELAC-NY10854,PADEP		

Total Solids

Log-in Notes:

Sample Notes:

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	93.0		%	0.100	1	SM 2540G	11/19/2018 12:52	11/19/2018 16:23	TAJ
							Certifications:	CTDOH		

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.537	1	EPA 7196A	11/21/2018 08:45	11/21/2018 16:35	MAC
							Certifications:	NJDEP,CTDOH,NELAC-NY10854,PADEP		

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	26.6		mg/kg	0.500	1	Calculation	11/30/2018 14:23	11/30/2018 14:34	PAM
							Certifications:			

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	0.543		mg/kg dry	0.537	1	EPA 9014/9010C	11/21/2018 07:23	11/21/2018 14:53	JTV
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB-61A

York Sample ID: 18K0528-16

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 10:50 am	<u>Date Received</u> 11/14/2018
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Analyzed by: Con-Test Analytical Laboratory

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:50		
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:50		
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:50		
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:50		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:50		
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:50		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:50		
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:50		
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:50		
	NMeFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:50		
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:50		
	NEtFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:50		
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:50		
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:50		
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 10:50		
	Surrogate Recoveries	Result		Acceptance Range						
	Surrogate: 13C-PFHxA	%		70-130						
	Surrogate: 13C-PFDA	%		70-130						
	Surrogate: d5-NEtFOSAA	%		70-130						

Sample Information

Client Sample ID: SB-61B

York Sample ID: 18K0528-17

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 12:02 pm	<u>Date Received</u> 11/14/2018
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Sample Information

Client Sample ID: SB-61B

York Sample ID: 18K0528-17

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 12:02 pm

11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:50	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:50	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:50	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND	IS-LO	ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:50	LLJ
95-50-1	1,2-Dichlorobenzene	ND	IS-LO	ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:50	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:50	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND	IS-LO	ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:50	LLJ
541-73-1	1,3-Dichlorobenzene	ND	IS-LO	ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:50	LLJ
106-46-7	1,4-Dichlorobenzene	ND	IS-LO	ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:50	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	59	120	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:50	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:50	LLJ
67-64-1	Acetone	ND		ug/kg dry	5.9	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:50	LLJ
71-43-2	Benzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:50	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:50	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:50	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:50	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:50	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:50	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:50	LLJ
75-09-2	Methylene chloride	7.2	J	ug/kg dry	5.9	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:50	LLJ
91-20-3	Naphthalene	7.3	IS-LO, J, B	ug/kg dry	2.9	12	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:50	LLJ
104-51-8	n-Butylbenzene	ND	IS-LO	ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:50	LLJ
103-65-1	n-Propylbenzene	ND	IS-LO	ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:50	LLJ



Sample Information

Client Sample ID: SB-61B

York Sample ID: 18K0528-17

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11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
95-47-6	o-Xylene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/17/2018 11:37	11/17/2018 16:50	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.9	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/17/2018 11:37	11/17/2018 16:50	LLJ
135-98-8	sec-Butylbenzene	ND	IS-LO	ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:50	LLJ
98-06-6	tert-Butylbenzene	ND	IS-LO	ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:50	LLJ
127-18-4	Tetrachloroethylene	210		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:50	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:50	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:50	LLJ
79-01-6	Trichloroethylene	8.3		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:50	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 16:50	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.8	18	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/17/2018 11:37	11/17/2018 16:50	LLJ
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	94.6 %			77-125						
2037-26-5	Surrogate: SURR: Toluene-d8	136 %	S-08		85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	119 %			76-130						

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 09:53	OW
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 09:53	OW
83-32-9	Acenaphthene	2150		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 09:53	OW
208-96-8	Acenaphthylene	459		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 09:53	OW
120-12-7	Anthracene	3880		ug/kg dry	488	974	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/22/2018 01:38	OW
56-55-3	Benzo(a)anthracene	7940		ug/kg dry	488	974	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/22/2018 01:38	OW
50-32-8	Benzo(a)pyrene	7460		ug/kg dry	488	974	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/22/2018 01:38	OW



Sample Information

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11/14/2018

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 22:35	TJD
72-55-9	4,4'-DDE	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 22:35	TJD
50-29-3	4,4'-DDT	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 22:35	TJD
309-00-2	Aldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 22:35	TJD
319-84-6	alpha-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 22:35	TJD
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/19/2018 07:31	11/21/2018 22:35	TJD
319-85-7	beta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 22:35	TJD
319-86-8	delta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 22:35	TJD
60-57-1	Dieldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 22:35	TJD
959-98-8	Endosulfan I	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 22:35	TJD
33213-65-9	Endosulfan II	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/19/2018 07:31	11/21/2018 22:35	TJD
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 22:35	TJD
72-20-8	Endrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 22:35	TJD
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 22:35	TJD
76-44-8	Heptachlor	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 22:35	TJD
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	77.3 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	66.1 %	30-150							

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 20:32	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 20:32	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 20:32	TJD



Sample Information

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11/14/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 20:32	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 20:32	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 20:32	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2018 07:31	11/21/2018 20:32	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications:	11/19/2018 07:31	11/21/2018 20:32	TJD
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	57.4 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	42.8 %	30-140							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	5100		mg/kg dry	5.86	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:32	KML
7440-36-0	Antimony	ND		mg/kg dry	2.93	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:32	KML
7440-38-2	Arsenic	3.96		mg/kg dry	1.76	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:32	KML
7440-39-3	Barium	709		mg/kg dry	2.93	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:32	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.059	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:32	KML
7440-43-9	Cadmium	1.24		mg/kg dry	0.351	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:32	KML
7440-70-2	Calcium	20600		mg/kg dry	5.86	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:32	KML
7440-47-3	Chromium	24.0		mg/kg dry	0.586	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:32	KML
7440-48-4	Cobalt	8.98		mg/kg dry	0.469	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:32	KML
7440-50-8	Copper	152		mg/kg dry	2.34	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:32	KML
7439-89-6	Iron	44500		mg/kg dry	29.3	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:32	KML
7439-92-1	Lead	2450		mg/kg dry	0.586	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:32	KML
7439-95-4	Magnesium	1740		mg/kg dry	5.86	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:32	KML



Sample Information

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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	323		mg/kg dry	0.586	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:32	KML
7440-02-0	Nickel	27.3		mg/kg dry	1.17	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:32	KML
7440-09-7	Potassium	668		mg/kg dry	5.86	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:32	KML
7782-49-2	Selenium	ND		mg/kg dry	2.93	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:32	KML
7440-22-4	Silver	ND		mg/kg dry	0.586	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:32	KML
7440-23-5	Sodium	1460		mg/kg dry	58.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:32	KML
7440-28-0	Thallium	ND		mg/kg dry	2.93	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:32	KML
7440-62-2	Vanadium	14.6		mg/kg dry	1.17	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:32	KML
7440-66-6	Zinc	425		mg/kg dry	2.93	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:32	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	2.53		mg/kg dry	0.0351	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/15/2018 09:41	11/15/2018 16:42	SY

Total Solids

Log-in Notes:

Sample Notes:

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	85.4		%	0.100	1	SM 2540G Certifications: CTDOH	11/19/2018 12:52	11/19/2018 16:23	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.586	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/21/2018 08:45	11/21/2018 16:35	MAC

Chromium, Trivalent

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB-61B

York Sample ID: 18K0528-17

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 12:02 pm	<u>Date Received</u> 11/14/2018
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Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	24.0		mg/kg	0.500	1	Calculation	11/30/2018 14:23	11/30/2018 14:34	PAM

Certifications:

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.586	1	EPA 9014/9010C	11/21/2018 07:23	11/21/2018 14:53	JTV

Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 12:02		
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 12:02		
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 12:02		
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 12:02		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 12:02		
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 12:02		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 12:02		
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 12:02		
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 12:02		
	NMeFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 12:02		
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 12:02		
	NEtFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 12:02		
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 12:02		
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 12:02		
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 12:02		



Sample Information

Client Sample ID: SB-61B

York Sample ID: 18K0528-17

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 12:02 pm

11/14/2018

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries		Result	Acceptance Range							
	Surrogate: 13C-PFHxA	%		70-130						
	Surrogate: 13C-PFDA	%		70-130						
	Surrogate: d5-NEtFOSAA	%		70-130						

Sample Information

Client Sample ID: SB-61C

York Sample ID: 18K0528-18

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 12:11 pm

11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:19	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:19	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:19	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND	IS-LO	ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:19	LLJ
95-50-1	1,2-Dichlorobenzene	ND	IS-LO	ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:19	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:19	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND	IS-LO	ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:19	LLJ
541-73-1	1,3-Dichlorobenzene	ND	IS-LO	ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:19	LLJ
106-46-7	1,4-Dichlorobenzene	ND	IS-LO	ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:19	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	61	120	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:19	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:19	LLJ
67-64-1	Acetone	ND		ug/kg dry	6.1	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:19	LLJ



Sample Information

Client Sample ID: SB-61C

York Sample ID: 18K0528-18

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 12:11 pm

11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
71-43-2	Benzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:19	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:19	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:19	LLJ
67-66-3	Chloroform	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:19	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:19	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:19	LLJ
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,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:19	LLJ
75-09-2	Methylene chloride	14		ug/kg dry	6.1	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:19	LLJ
91-20-3	Naphthalene	6.5	IS-LO, J, B	ug/kg dry	3.1	12	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:19	LLJ
104-51-8	n-Butylbenzene	ND	IS-LO	ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:19	LLJ
103-65-1	n-Propylbenzene	ND	IS-LO	ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:19	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/17/2018 11:37	11/17/2018 17:19	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	6.1	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/17/2018 11:37	11/17/2018 17:19	LLJ
135-98-8	sec-Butylbenzene	ND	IS-LO	ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:19	LLJ
98-06-6	tert-Butylbenzene	ND	IS-LO	ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:19	LLJ
127-18-4	Tetrachloroethylene	56		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:19	LLJ
108-88-3	Toluene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:19	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:19	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:19	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:19	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	9.2	18	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/17/2018 11:37	11/17/2018 17:19	LLJ
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	100 %			77-125						
2037-26-5	Surrogate: SURRE: Toluene-d8	127 %	S-08		85-120						
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	119 %			76-130						



Sample Information

Client Sample ID: SB-61C

York Sample ID: 18K0528-18

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 12:11 pm

11/14/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 12:07	OW
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 12:07	OW
83-32-9	Acenaphthene	348		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 12:07	OW
208-96-8	Acenaphthylene	572		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 12:07	OW
120-12-7	Anthracene	1110		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 12:07	OW
56-55-3	Benzo(a)anthracene	3930		ug/kg dry	255	508	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/22/2018 02:09	OW
50-32-8	Benzo(a)pyrene	4210		ug/kg dry	255	508	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/22/2018 02:09	OW
205-99-2	Benzo(b)fluoranthene	3670		ug/kg dry	255	508	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/22/2018 02:09	OW
191-24-2	Benzo(g,h,i)perylene	2660		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 12:07	OW
207-08-9	Benzo(k)fluoranthene	3610		ug/kg dry	255	508	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/22/2018 02:09	OW
218-01-9	Chrysene	4510		ug/kg dry	255	508	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/22/2018 02:09	OW
53-70-3	Dibenzo(a,h)anthracene	1010		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 12:07	OW
132-64-9	Dibenzofuran	212		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 12:07	OW
206-44-0	Fluoranthene	9200		ug/kg dry	255	508	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/22/2018 02:09	OW
86-73-7	Fluorene	310		ug/kg dry	50.9	102	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 12:07	OW
118-74-1	Hexachlorobenzene	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 12:07	OW
193-39-5	Indeno(1,2,3-cd)pyrene	2470		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 12:07	OW
91-20-3	Naphthalene	195		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 12:07	OW
87-86-5	Pentachlorophenol	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 12:07	OW
85-01-8	Phenanthrene	5550		ug/kg dry	255	508	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/22/2018 02:09	OW
108-95-2	Phenol	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 12:07	OW



Sample Information

Client Sample ID: SB-61C

York Sample ID: 18K0528-18

York Project (SDG) No.

Client Project ID

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37321-STX 27-10 49th Ave

Soil

November 13, 2018 12:11 pm

11/14/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
129-00-0	Pyrene	7220		ug/kg dry	255	508	10	EPA 8270D	11/20/2018 07:19	11/22/2018 02:09	OW
									Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP		
Surrogate Recoveries		Result			Acceptance Range						
367-12-4	Surrogate: SURR: 2-Fluorophenol	98.1 %			20-108						
4165-62-2	Surrogate: SURR: Phenol-d5	98.0 %			23-114						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	104 %			22-108						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	107 %			21-113						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	119 %	S-08		19-110						
1718-51-0	Surrogate: SURR: Terphenyl-d14	107 %			24-116						

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.65	5	EPA 8081B	11/20/2018 07:28	11/21/2018 22:50	TJD
									Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	
72-55-9	4,4'-DDE	ND		ug/kg dry	1.65	5	EPA 8081B	11/20/2018 07:28	11/21/2018 22:50	TJD
									Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	
50-29-3	4,4'-DDT	ND		ug/kg dry	1.65	5	EPA 8081B	11/20/2018 07:28	11/21/2018 22:50	TJD
									Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	
309-00-2	Aldrin	ND		ug/kg dry	1.65	5	EPA 8081B	11/20/2018 07:28	11/21/2018 22:50	TJD
									Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	
319-84-6	alpha-BHC	ND		ug/kg dry	1.65	5	EPA 8081B	11/20/2018 07:28	11/21/2018 22:50	TJD
									Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.65	5	EPA 8081B	11/20/2018 07:28	11/21/2018 22:50	TJD
									Certifications: NELAC-NY10854,NJDEP	
319-85-7	beta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B	11/20/2018 07:28	11/21/2018 22:50	TJD
									Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	
319-86-8	delta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B	11/20/2018 07:28	11/21/2018 22:50	TJD
									Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	
60-57-1	Dieldrin	ND		ug/kg dry	1.65	5	EPA 8081B	11/20/2018 07:28	11/21/2018 22:50	TJD
									Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	
959-98-8	Endosulfan I	ND		ug/kg dry	1.65	5	EPA 8081B	11/20/2018 07:28	11/21/2018 22:50	TJD
									Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	
33213-65-9	Endosulfan II	ND		ug/kg dry	1.65	5	EPA 8081B	11/20/2018 07:28	11/21/2018 22:50	TJD
									Certifications: CTDOH,NELAC-NY10854	
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.65	5	EPA 8081B	11/20/2018 07:28	11/21/2018 22:50	TJD
									Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	
72-20-8	Endrin	ND		ug/kg dry	1.65	5	EPA 8081B	11/20/2018 07:28	11/21/2018 22:50	TJD
									Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.65	5	EPA 8081B	11/20/2018 07:28	11/21/2018 22:50	TJD
									Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	
76-44-8	Heptachlor	ND		ug/kg dry	1.65	5	EPA 8081B	11/20/2018 07:28	11/21/2018 22:50	TJD
									Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	



Sample Information

Client Sample ID: SB-61C

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Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	74.9 %								
877-09-8	Surrogate: Tetrachloro-m-xylene	69.1 %								

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0204	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 20:45	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0204	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 20:45	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0204	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 20:45	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0204	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 20:45	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0204	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 20:45	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0204	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 20:45	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0204	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 20:45	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0204	1	EPA 8082A Certifications:	11/20/2018 07:28	11/21/2018 20:45	TJD
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	52.0 %								
2051-24-3	Surrogate: Decachlorobiphenyl	40.8 %								

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	8070		mg/kg dry	6.13	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:34	KML
7440-36-0	Antimony	4.56		mg/kg dry	3.07	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:34	KML
7440-38-2	Arsenic	19.6		mg/kg dry	1.84	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:34	KML
7440-39-3	Barium	573		mg/kg dry	3.07	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:34	KML
7440-41-7	Beryllium	0.203		mg/kg dry	0.061	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:34	KML



Sample Information

Client Sample ID: SB-61C

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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	Cadmium	2.79		mg/kg dry	0.368	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:34	KML
7440-70-2	Calcium	8410		mg/kg dry	6.13	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:34	KML
7440-47-3	Chromium	37.2		mg/kg dry	0.613	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:34	KML
7440-48-4	Cobalt	9.63		mg/kg dry	0.491	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:34	KML
7440-50-8	Copper	247		mg/kg dry	2.45	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:34	KML
7439-89-6	Iron	29100		mg/kg dry	30.7	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:34	KML
7439-92-1	Lead	1670		mg/kg dry	0.613	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:34	KML
7439-95-4	Magnesium	2900		mg/kg dry	6.13	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:34	KML
7439-96-5	Manganese	416		mg/kg dry	0.613	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:34	KML
7440-02-0	Nickel	28.4		mg/kg dry	1.23	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:34	KML
7440-09-7	Potassium	894		mg/kg dry	6.13	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:34	KML
7782-49-2	Selenium	ND		mg/kg dry	3.07	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:34	KML
7440-22-4	Silver	ND		mg/kg dry	0.613	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:34	KML
7440-23-5	Sodium	1270		mg/kg dry	61.3	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:34	KML
7440-28-0	Thallium	ND		mg/kg dry	3.07	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:34	KML
7440-62-2	Vanadium	25.9		mg/kg dry	1.23	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:34	KML
7440-66-6	Zinc	833		mg/kg dry	3.07	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:34	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	4.78		mg/kg dry	0.0368	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/15/2018 09:41	11/15/2018 16:58	SY



Sample Information

Client Sample ID: SB-61C

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Soil

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Total Solids

Log-in Notes:

Sample Notes:

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	81.5		%	0.100	1	SM 2540G Certifications: CTDOH	11/19/2018 12:52	11/19/2018 16:23	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.613	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/21/2018 08:45	11/21/2018 16:35	MAC

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	37.2		mg/kg	0.500	1	Calculation Certifications:	11/30/2018 14:23	11/30/2018 14:34	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	2.23		mg/kg dry	0.613	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/21/2018 07:23	11/21/2018 14:53	JTV

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 12:11		
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 12:11		
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 12:11		
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 12:11		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 12:11		
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 12:11		



Sample Information

Client Sample ID: SB-61C

York Sample ID: 18K0528-18

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 12:11 pm	<u>Date Received</u> 11/14/2018
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Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 12:11		
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 12:11		
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 12:11		
	NMeFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 12:11		
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 12:11		
	NEtFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 12:11		
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 12:11		
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 12:11		
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 12:11		
	Surrogate Recoveries	Result		Acceptance Range						
	Surrogate: 13C-PFHxA	%		70-130						
	Surrogate: 13C-PFDA	%		70-130						
	Surrogate: d5-NEtFOSAA	%		70-130						

Sample Information

Client Sample ID: SB-62

York Sample ID: 18K0528-19

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 12:23 pm	<u>Date Received</u> 11/14/2018
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Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:49	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:49	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:49	LLJ



Sample Information

Client Sample ID: SB-62

York Sample ID: 18K0528-19

York Project (SDG) No.

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Volatile Organics, NYSDEC Part 375 List

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
95-63-6	1,2,4-Trimethylbenzene	ND	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:49	LLJ
95-50-1	1,2-Dichlorobenzene	ND	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:49	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:49	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:49	LLJ
541-73-1	1,3-Dichlorobenzene	ND	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:49	LLJ
106-46-7	1,4-Dichlorobenzene	ND	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:49	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	55	110	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:49	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:49	LLJ
67-64-1	Acetone	ND		ug/kg dry	5.5	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:49	LLJ
71-43-2	Benzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:49	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:49	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:49	LLJ
67-66-3	Chloroform	2.9	J	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:49	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:49	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:49	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:49	LLJ
75-09-2	Methylene chloride	7.3	J	ug/kg dry	5.5	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:49	LLJ
91-20-3	Naphthalene	3.1	IS-LO, J, B	ug/kg dry	2.8	11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:49	LLJ
104-51-8	n-Butylbenzene	ND	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:49	LLJ
103-65-1	n-Propylbenzene	ND	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:49	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/17/2018 11:37	11/17/2018 17:49	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.5	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/17/2018 11:37	11/17/2018 17:49	LLJ
135-98-8	sec-Butylbenzene	ND	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:49	LLJ



Sample Information

Client Sample ID: SB-62

York Sample ID: 18K0528-19

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 12:23 pm

11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
98-06-6	tert-Butylbenzene	ND	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:49	LLJ
127-18-4	Tetrachloroethylene	37		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:49	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:49	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:49	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:49	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:37	11/17/2018 17:49	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.3	17	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/17/2018 11:37	11/17/2018 17:49	LLJ

Surrogate Recoveries

Result

Acceptance Range

17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	96.4 %		77-125
2037-26-5	Surrogate: SURRE: Toluene-d8	116 %		85-120
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	113 %		76-130

Petroleum Identification

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Petroleum Identification	0.00	A-01	ID only		10	EPA 8015D Certifications:	11/21/2018 05:44	11/21/2018 14:49	TJD

Total Solids

Log-in Notes:

Sample Notes:

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	90.2		%	0.100	1	SM 2540G Certifications: CTDOH	11/19/2018 12:52	11/19/2018 16:23	TAJ

Sample Information

Client Sample ID: SB-63

York Sample ID: 18K0528-20

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 12:43 pm

11/14/2018



Sample Information

Client Sample ID: SB-63

York Sample ID: 18K0528-20

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 12:43 pm

11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 11:55	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 11:55	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 11:55	LLJ
95-63-6	1,2,4-Trimethylbenzene	1100		ug/kg dry	280	550	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:25	11/17/2018 15:12	LLJ
95-50-1	1,2-Dichlorobenzene	ND	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 11:55	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 11:55	LLJ
108-67-8	1,3,5-Trimethylbenzene	370	J	ug/kg dry	280	550	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:25	11/17/2018 15:12	LLJ
541-73-1	1,3-Dichlorobenzene	ND	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 11:55	LLJ
106-46-7	1,4-Dichlorobenzene	ND	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 11:55	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	55	110	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 11:55	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 11:55	LLJ
67-64-1	Acetone	51		ug/kg dry	5.5	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 11:55	LLJ
71-43-2	Benzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 11:55	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 11:55	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 11:55	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 11:55	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 11:55	LLJ
100-41-4	Ethyl Benzene	610		ug/kg dry	280	550	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:25	11/17/2018 15:12	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 11:55	LLJ
75-09-2	Methylene chloride	ND		ug/kg dry	5.5	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 11:55	LLJ
91-20-3	Naphthalene	30	IS-LO, B	ug/kg dry	2.8	11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 11:55	LLJ
104-51-8	n-Butylbenzene	ND	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 11:55	LLJ
103-65-1	n-Propylbenzene	1100		ug/kg dry	280	550	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:25	11/17/2018 15:12	LLJ



Sample Information

Client Sample ID: SB-63

York Sample ID: 18K0528-20

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 12:43 pm

11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
95-47-6	o-Xylene	37		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 09:12	11/16/2018 11:55	LLJ
179601-23-1	p- & m- Xylenes	43		ug/kg dry	5.5	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 09:12	11/16/2018 11:55	LLJ
135-98-8	sec-Butylbenzene	920		ug/kg dry	280	550	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:25	11/17/2018 15:12	LLJ
98-06-6	tert-Butylbenzene	ND	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 11:55	LLJ
127-18-4	Tetrachloroethylene	6.9		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 11:55	LLJ
108-88-3	Toluene	3.6	J	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 11:55	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 11:55	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 11:55	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 11:55	LLJ
1330-20-7	Xylenes, Total	79		ug/kg dry	8.3	17	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/16/2018 09:12	11/16/2018 11:55	LLJ
Surrogate Recoveries		Result		Acceptance Range							
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	129 %	S-08	77-125							
2037-26-5	Surrogate: SURR: Toluene-d8	94.7 %		85-120							
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	470 %	S-08	76-130							

Petroleum Identification

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Petroleum Identification	0.00	A-01a	ID only		10	EPA 8015D Certifications:	11/21/2018 05:44	11/21/2018 15:19	TJD

Total Solids

Log-in Notes:

Sample Notes:

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	90.3		%	0.100	1	SM 2540G Certifications: CTDOH	11/19/2018 12:52	11/19/2018 16:23	TAJ



Sample Information

Client Sample ID: SB-64A

York Sample ID: 18K0528-21

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 1:15 pm

11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 12:28	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 12:28	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 12:28	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 12:28	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 12:28	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 12:28	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 12:28	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 12:28	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 12:28	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	52	100	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 12:28	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 12:28	LLJ
67-64-1	Acetone	7.0	J	ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 12:28	LLJ
71-43-2	Benzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 12:28	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 12:28	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 12:28	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 12:28	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 12:28	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 12:28	LLJ
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,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 12:28	LLJ
75-09-2	Methylene chloride	11		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 12:28	LLJ
91-20-3	Naphthalene	ND		ug/kg dry	2.6	10	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 12:28	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 12:28	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 12:28	LLJ



Sample Information

Client Sample ID: SB-64A

York Sample ID: 18K0528-21

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 1:15 pm

11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
95-47-6	o-Xylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 09:12	11/16/2018 12:28	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 09:12	11/16/2018 12:28	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 12:28	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 12:28	LLJ
127-18-4	Tetrachloroethylene	3.5	J	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 12:28	LLJ
108-88-3	Toluene	2.7	J	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 12:28	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 12:28	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 12:28	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 12:28	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.8	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/16/2018 09:12	11/16/2018 12:28	LLJ
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	105 %	77-125								
2037-26-5	Surrogate: SURR: Toluene-d8	108 %	85-120								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	114 %	76-130								

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	327	652	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 12:39	OW
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	327	652	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 12:39	OW
83-32-9	Acenaphthene	ND		ug/kg dry	327	652	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 12:39	OW
208-96-8	Acenaphthylene	ND		ug/kg dry	327	652	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 12:39	OW
120-12-7	Anthracene	ND		ug/kg dry	327	652	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 12:39	OW
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	327	652	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 12:39	OW
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	327	652	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 12:39	OW
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	327	652	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 12:39	OW



Sample Information

Client Sample ID: SB-64A

York Sample ID: 18K0528-21

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 1:15 pm	<u>Date Received</u> 11/14/2018
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Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	327	652	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 12:39	OW
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	327	652	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 12:39	OW
218-01-9	Chrysene	ND		ug/kg dry	327	652	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 12:39	OW
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	327	652	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 12:39	OW
132-64-9	Dibenzofuran	ND		ug/kg dry	327	652	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 12:39	OW
206-44-0	Fluoranthene	448	J	ug/kg dry	327	652	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 12:39	OW
86-73-7	Fluorene	ND		ug/kg dry	327	652	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 12:39	OW
118-74-1	Hexachlorobenzene	ND		ug/kg dry	327	652	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 12:39	OW
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	327	652	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 12:39	OW
91-20-3	Naphthalene	ND		ug/kg dry	327	652	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 12:39	OW
87-86-5	Pentachlorophenol	ND		ug/kg dry	327	652	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 12:39	OW
85-01-8	Phenanthrene	ND		ug/kg dry	327	652	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 12:39	OW
108-95-2	Phenol	ND		ug/kg dry	327	652	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 12:39	OW
129-00-0	Pyrene	443	J	ug/kg dry	327	652	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 12:39	OW
	Surrogate Recoveries	Result									Acceptance Range
367-12-4	Surrogate: SURR: 2-Fluorophenol	59.4 %									20-108
4165-62-2	Surrogate: SURR: Phenol-d5	48.9 %									23-114
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	55.8 %									22-108
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	52.2 %									21-113
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	54.9 %									19-110
1718-51-0	Surrogate: SURR: Terphenyl-d14	59.4 %									24-116

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:20	TJD
72-55-9	4,4'-DDE	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:20	TJD



Sample Information

Client Sample ID: SB-64A

York Sample ID: 18K0528-21

York Project (SDG) No.

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Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-29-3	4,4'-DDT	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:20	TJD
309-00-2	Aldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:20	TJD
319-84-6	alpha-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:20	TJD
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: NELAC-NY 10854,NJDEP	11/20/2018 07:28	11/21/2018 23:20	TJD
319-85-7	beta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:20	TJD
319-86-8	delta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:20	TJD
60-57-1	Dieldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:20	TJD
959-98-8	Endosulfan I	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:20	TJD
33213-65-9	Endosulfan II	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY 10854	11/20/2018 07:28	11/21/2018 23:20	TJD
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:20	TJD
72-20-8	Endrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:20	TJD
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:20	TJD
76-44-8	Heptachlor	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY 10854,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:20	TJD
	Surrogate Recoveries	Result		Acceptance Range						
2051-24-3	Surrogate: Decachlorobiphenyl	45.9 %		30-150						
877-09-8	Surrogate: Tetrachloro-m-xylene	42.0 %		30-150						

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY 10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 20:59	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY 10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 20:59	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY 10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 20:59	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY 10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 20:59	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY 10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 20:59	TJD



Sample Information

Client Sample ID: SB-64A

York Sample ID: 18K0528-21

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Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 20:59	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 20:59	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications:	11/20/2018 07:28	11/21/2018 20:59	TJD
Surrogate Recoveries		Result					Acceptance Range			
877-09-8	Surrogate: Tetrachloro-m-xylene	47.0 %					30-140			
2051-24-3	Surrogate: Decachlorobiphenyl	35.8 %					30-140			

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	4240		mg/kg dry	5.20	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:36	KML
7440-36-0	Antimony	ND		mg/kg dry	2.60	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:36	KML
7440-38-2	Arsenic	1.69		mg/kg dry	1.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:36	KML
7440-39-3	Barium	14.2		mg/kg dry	2.60	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:36	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.052	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:36	KML
7440-43-9	Cadmium	0.481		mg/kg dry	0.312	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:36	KML
7440-70-2	Calcium	58900		mg/kg dry	5.20	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:36	KML
7440-47-3	Chromium	3.32		mg/kg dry	0.520	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:36	KML
7440-48-4	Cobalt	5.31		mg/kg dry	0.416	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:36	KML
7440-50-8	Copper	25.5		mg/kg dry	2.08	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:36	KML
7439-89-6	Iron	9550		mg/kg dry	26.0	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:36	KML
7439-92-1	Lead	23.9		mg/kg dry	0.520	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:36	KML
7439-95-4	Magnesium	29700		mg/kg dry	5.20	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:36	KML
7439-96-5	Manganese	134		mg/kg dry	0.520	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:36	KML



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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-02-0	Nickel	5.97		mg/kg dry	1.04	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:36	KML
7440-09-7	Potassium	591		mg/kg dry	5.20	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:36	KML
7782-49-2	Selenium	11.2		mg/kg dry	2.60	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:36	KML
7440-22-4	Silver	ND		mg/kg dry	0.520	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:36	KML
7440-23-5	Sodium	746		mg/kg dry	52.0	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:36	KML
7440-28-0	Thallium	ND		mg/kg dry	2.60	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:36	KML
7440-62-2	Vanadium	36.5		mg/kg dry	1.04	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:36	KML
7440-66-6	Zinc	23.9		mg/kg dry	2.60	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:36	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.0332		mg/kg dry	0.0312	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/15/2018 09:41	11/15/2018 17:13	SY

Total Solids

Log-in Notes:

Sample Notes:

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	96.2		%	0.100	1	SM 2540G Certifications: CTDOH	11/19/2018 12:54	11/19/2018 17:09	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.520	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/21/2018 08:45	11/21/2018 16:35	MAC

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

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

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York Project (SDG) No.

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Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	3.32		mg/kg	0.500	1	Calculation	11/30/2018 14:23	11/30/2018 14:34	PAM
Certifications:										

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.520	1	EPA 9014/9010C	11/21/2018 07:23	11/21/2018 14:53	JTV
Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP										

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:15		
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:15		
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:15		
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:15		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:15		
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:15		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:15		
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:15		
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:15		
	NMeFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:15		
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:15		
	NEtFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:15		
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:15		
72629-94-8	Perfluorotridecanoic acid (PFTriDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:15		



Sample Information

Client Sample ID: SB-64A

York Sample ID: 18K0528-21

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 1:15 pm	<u>Date Received</u> 11/14/2018
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Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:15		
	Surrogate Recoveries	Result					Acceptance Range			
	Surrogate: 13C-PFHxA	%					70-130			
	Surrogate: 13C-PFDA	%					70-130			
	Surrogate: d5-NEtFOSAA	%					70-130			

Sample Information

Client Sample ID: SB-64B

York Sample ID: 18K0528-22

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 1:20 pm	<u>Date Received</u> 11/14/2018
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Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:00	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:00	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:00	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:00	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:00	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:00	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:00	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:00	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:00	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	56	110	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:00	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:00	LLJ



Sample Information

Client Sample ID: SB-64B

York Sample ID: 18K0528-22

York Project (SDG) No.

Client Project ID

Matrix

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37321-STX 27-10 49th Ave

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Volatile Organics, NYSDEC Part 375 List

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
67-64-1	Acetone	9.2	J	ug/kg dry	5.6	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:00	LLJ
71-43-2	Benzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:00	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:00	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:00	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:00	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:00	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:00	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:00	LLJ
75-09-2	Methylene chloride	10	J	ug/kg dry	5.6	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:00	LLJ
91-20-3	Naphthalene	ND		ug/kg dry	2.8	11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:00	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:00	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:00	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 09:12	11/16/2018 13:00	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.6	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 09:12	11/16/2018 13:00	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:00	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:00	LLJ
127-18-4	Tetrachloroethylene	9.0		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:00	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:00	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:00	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:00	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:00	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.4	17	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/16/2018 09:12	11/16/2018 13:00	LLJ
	Surrogate Recoveries	Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	103 %			77-125						



Sample Information

Client Sample ID: SB-64B

York Sample ID: 18K0528-22

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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18K0528

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Soil

November 13, 2018 1:20 pm

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Volatile Organics, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Rows include Surrogate: SURR: Toluene-d8 and Surrogate: SURR: p-Bromofluorobenzene.

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Rows include 2-Methylphenol, 3- & 4-Methylphenols, Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Dibenzofuran, Fluoranthene, Fluorene, Hexachlorobenzene, Indeno(1,2,3-cd)pyrene, Naphthalene.



Sample Information

Client Sample ID: SB-64B

York Sample ID: 18K0528-22

York Project (SDG) No.

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Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-86-5	Pentachlorophenol	ND		ug/kg dry	47.0	93.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 13:10	OW
85-01-8	Phenanthrene	5030		ug/kg dry	118	235	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/22/2018 02:40	OW
108-95-2	Phenol	ND		ug/kg dry	47.0	93.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 13:10	OW
129-00-0	Pyrene	4600		ug/kg dry	118	235	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/22/2018 02:40	OW
Surrogate Recoveries		Result			Acceptance Range						
367-12-4	Surrogate: SURR: 2-Fluorophenol	68.9 %			20-108						
4165-62-2	Surrogate: SURR: Phenol-d5	70.9 %			23-114						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	69.7 %			22-108						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	78.1 %			21-113						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	86.2 %			19-110						
1718-51-0	Surrogate: SURR: Terphenyl-d14	80.2 %			24-116						

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:35	TJD
72-55-9	4,4'-DDE	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:35	TJD
50-29-3	4,4'-DDT	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:35	TJD
309-00-2	Aldrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:35	TJD
319-84-6	alpha-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:35	TJD
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/20/2018 07:28	11/21/2018 23:35	TJD
319-85-7	beta-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:35	TJD
319-86-8	delta-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:35	TJD
60-57-1	Dieldrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:35	TJD
959-98-8	Endosulfan I	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:35	TJD
33213-65-9	Endosulfan II	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/20/2018 07:28	11/21/2018 23:35	TJD
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:35	TJD



Sample Information

Client Sample ID: SB-64B

York Sample ID: 18K0528-22

York Project (SDG) No.

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Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-20-8	Endrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:35	TJD
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:35	TJD
76-44-8	Heptachlor	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:35	TJD
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	50.8 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	32.1 %	30-150							

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 21:12	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 21:12	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 21:12	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 21:12	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 21:12	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 21:12	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 21:12	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications:	11/20/2018 07:28	11/21/2018 21:12	TJD
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	56.9 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	45.8 %	30-140							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	7640		mg/kg dry	5.59	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:38	KML
7440-36-0	Antimony	ND		mg/kg dry	2.79	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:38	KML



Sample Information

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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	8.18		mg/kg dry	1.68	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:38	KML
7440-39-3	Barium	740		mg/kg dry	2.79	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:38	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.056	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:38	KML
7440-43-9	Cadmium	1.42		mg/kg dry	0.335	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:38	KML
7440-70-2	Calcium	48500		mg/kg dry	5.59	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:38	KML
7440-47-3	Chromium	25.8		mg/kg dry	0.559	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:38	KML
7440-48-4	Cobalt	7.33		mg/kg dry	0.447	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:38	KML
7440-50-8	Copper	54.7		mg/kg dry	2.23	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:38	KML
7439-89-6	Iron	19900		mg/kg dry	27.9	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:38	KML
7439-92-1	Lead	686		mg/kg dry	0.559	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:38	KML
7439-95-4	Magnesium	5400		mg/kg dry	5.59	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:38	KML
7439-96-5	Manganese	299		mg/kg dry	0.559	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:38	KML
7440-02-0	Nickel	20.7		mg/kg dry	1.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:38	KML
7440-09-7	Potassium	1600		mg/kg dry	5.59	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:38	KML
7782-49-2	Selenium	ND		mg/kg dry	2.79	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:38	KML
7440-22-4	Silver	ND		mg/kg dry	0.559	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:38	KML
7440-23-5	Sodium	757		mg/kg dry	55.9	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:38	KML
7440-28-0	Thallium	ND		mg/kg dry	2.79	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:38	KML
7440-62-2	Vanadium	24.7		mg/kg dry	1.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:38	KML
7440-66-6	Zinc	572		mg/kg dry	2.79	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:30	11/20/2018 12:38	KML

Mercury by 7473

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB-64B

York Sample ID: 18K0528-22

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 1:20 pm	<u>Date Received</u> 11/14/2018
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Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.493		mg/kg dry	0.0335	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/15/2018 09:41	11/15/2018 17:21	SY

Total Solids

Log-in Notes:

Sample Notes:

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	89.5		%	0.100	1	SM 2540G Certifications: CTDOH	11/19/2018 12:54	11/19/2018 17:09	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.559	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/21/2018 08:45	11/21/2018 16:35	MAC

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	28.8		mg/kg	0.500	1	Calculation Certifications:	11/30/2018 14:23	11/30/2018 14:34	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.559	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/21/2018 07:23	11/21/2018 14:53	JTV

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:20		
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:20		
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:20		



Sample Information

Client Sample ID: SB-64B

York Sample ID: 18K0528-22

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 1:20 pm	<u>Date Received</u> 11/14/2018
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Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:20		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:20		
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:20		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:20		
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:20		
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:20		
	NMeFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:20		
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:20		
	NEtFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:20		
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:20		
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:20		
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:20		

Surrogate Recoveries

Result

Acceptance Range

Surrogate: 13C-PFHxA	%	70-130
Surrogate: 13C-PFDA	%	70-130
Surrogate: d5-NEtFOSAA	%	70-130

Sample Information

Client Sample ID: SB-65A

York Sample ID: 18K0528-23

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 1:30 pm	<u>Date Received</u> 11/14/2018
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Volatile Organics, NYSDEC Part 375 List

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
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@		



Sample Information

Client Sample ID: SB-65A

York Sample ID: 18K0528-23

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 1:30 pm

11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:32	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:32	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:32	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:32	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:32	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:32	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:32	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:32	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:32	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	55	110	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:32	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:32	LLJ
67-64-1	Acetone	ND		ug/kg dry	5.5	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:32	LLJ
71-43-2	Benzene	6.3		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:32	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:32	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:32	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:32	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:32	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:32	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:32	LLJ
75-09-2	Methylene chloride	9.2	J	ug/kg dry	5.5	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:32	LLJ
91-20-3	Naphthalene	180	B	ug/kg dry	2.8	11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:32	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:32	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:32	LLJ



Sample Information

Client Sample ID: SB-65A

York Sample ID: 18K0528-23

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 1:30 pm

11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
95-47-6	o-Xylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 09:12	11/16/2018 13:32	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.5	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 09:12	11/16/2018 13:32	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:32	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:32	LLJ
127-18-4	Tetrachloroethylene	31		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:32	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:32	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:32	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:32	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 13:32	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.3	17	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/16/2018 09:12	11/16/2018 13:32	LLJ
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	103 %	77-125								
2037-26-5	Surrogate: SURR: Toluene-d8	107 %	85-120								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	110 %	76-130								

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	231	461	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 21:01	OW
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	231	461	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 21:01	OW
83-32-9	Acenaphthene	2700		ug/kg dry	231	461	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 21:01	OW
208-96-8	Acenaphthylene	3530		ug/kg dry	231	461	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 21:01	OW
120-12-7	Anthracene	7220		ug/kg dry	231	461	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 21:01	OW
56-55-3	Benzo(a)anthracene	20300		ug/kg dry	462	922	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/25/2018 13:53	OW
50-32-8	Benzo(a)pyrene	18700		ug/kg dry	462	922	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/25/2018 13:53	OW



Sample Information

Client Sample ID: SB-65A

York Sample ID: 18K0528-23

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 1:30 pm

11/14/2018

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:50	TJD
72-55-9	4,4'-DDE	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:50	TJD
50-29-3	4,4'-DDT	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:50	TJD
309-00-2	Aldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:50	TJD
319-84-6	alpha-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:50	TJD
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/20/2018 07:28	11/21/2018 23:50	TJD
319-85-7	beta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:50	TJD
319-86-8	delta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:50	TJD
60-57-1	Dieldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:50	TJD
959-98-8	Endosulfan I	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:50	TJD
33213-65-9	Endosulfan II	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/20/2018 07:28	11/21/2018 23:50	TJD
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:50	TJD
72-20-8	Endrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:50	TJD
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:50	TJD
76-44-8	Heptachlor	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:50	TJD
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	75.4 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	42.9 %	30-150							

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 21:26	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 21:26	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 21:26	TJD



Sample Information

Client Sample ID: SB-65A

York Sample ID: 18K0528-23

York Project (SDG) No.

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Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 21:26	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 21:26	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 21:26	TJD
11096-82-5	Aroclor 1260	0.0192		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 21:26	TJD
1336-36-3	* Total PCBs	0.0192		mg/kg dry	0.0184	1	EPA 8082A Certifications:	11/20/2018 07:28	11/21/2018 21:26	TJD
Surrogate Recoveries		Result			Acceptance Range					
877-09-8	Surrogate: Tetrachloro-m-xylene	74.8 %			30-140					
2051-24-3	Surrogate: Decachlorobiphenyl	56.7 %			30-140					

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	6970	B	mg/kg dry	5.53	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:11	KML
7440-36-0	Antimony	ND		mg/kg dry	2.76	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:11	KML
7440-38-2	Arsenic	10.8	B	mg/kg dry	1.66	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:11	KML
7440-39-3	Barium	835		mg/kg dry	2.76	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:11	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.055	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:11	KML
7440-43-9	Cadmium	1.14		mg/kg dry	0.332	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:11	KML
7440-70-2	Calcium	53500		mg/kg dry	5.53	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:11	KML
7440-47-3	Chromium	22.0		mg/kg dry	0.553	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:11	KML
7440-48-4	Cobalt	8.80		mg/kg dry	0.442	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:11	KML
7440-50-8	Copper	86.0		mg/kg dry	2.21	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:11	KML
7439-89-6	Iron	16200		mg/kg dry	27.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:11	KML
7439-92-1	Lead	1910		mg/kg dry	0.553	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:11	KML



Sample Information

Client Sample ID: SB-65A

York Sample ID: 18K0528-23

York Project (SDG) No.

Client Project ID

Matrix

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Soil

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11/14/2018

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	Magnesium	5730		mg/kg dry	5.53	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:11	KML
7439-96-5	Manganese	276		mg/kg dry	0.553	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:11	KML
7440-02-0	Nickel	16.7		mg/kg dry	1.11	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:11	KML
7440-09-7	Potassium	1470		mg/kg dry	5.53	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:11	KML
7782-49-2	Selenium	ND		mg/kg dry	2.76	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:11	KML
7440-22-4	Silver	ND		mg/kg dry	0.553	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:11	KML
7440-23-5	Sodium	498		mg/kg dry	55.3	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:11	KML
7440-28-0	Thallium	ND		mg/kg dry	2.76	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:11	KML
7440-62-2	Vanadium	31.3		mg/kg dry	1.11	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:11	KML
7440-66-6	Zinc	594	B	mg/kg dry	2.76	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:11	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	1.75		mg/kg dry	0.0332	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/15/2018 09:41	11/15/2018 17:30	SY

Total Solids

Log-in Notes:

Sample Notes:

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	90.5		%	0.100	1	SM 2540G Certifications: CTDOH	11/19/2018 12:54	11/19/2018 17:09	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.553	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/21/2018 08:45	11/21/2018 16:35	MAC



Sample Information

Client Sample ID: SB-65A

York Sample ID: 18K0528-23

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Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	22.0		mg/kg	0.500	1	Calculation	11/30/2018 14:23	11/30/2018 14:34	PAM
Certifications:										

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	0.912		mg/kg dry	0.553	1	EPA 9014/9010C	11/21/2018 07:23	11/21/2018 14:53	JTV
Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP										

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:30		
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:30		
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:30		
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:30		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:30		
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:30		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:30		
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:30		
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:30		
	NMeFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:30		
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:30		
	NEtFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:30		
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:30		
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:30		



Sample Information

Client Sample ID: SB-65A

York Sample ID: 18K0528-23

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 1:30 pm	<u>Date Received</u> 11/14/2018
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Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:30		
	Surrogate Recoveries	Result					Acceptance Range			
	Surrogate: 13C-PFHxA	%					70-130			
	Surrogate: 13C-PFDA	%					70-130			
	Surrogate: d5-NEtFOSAA	%					70-130			

Sample Information

Client Sample ID: SB-65B

York Sample ID: 18K0528-24

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 1:35 pm	<u>Date Received</u> 11/14/2018
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Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:05	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:05	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:05	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:05	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:05	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:05	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:05	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:05	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:05	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	52	100	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:05	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:05	LLJ



Sample Information

Client Sample ID: SB-65B

York Sample ID: 18K0528-24

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Volatile Organics, NYSDEC Part 375 List

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
67-64-1	Acetone	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:05	LLJ
71-43-2	Benzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:05	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:05	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:05	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:05	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:05	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:05	LLJ
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,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:05	LLJ
75-09-2	Methylene chloride	5.2	J	ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:05	LLJ
91-20-3	Naphthalene	2.6	J, B	ug/kg dry	2.6	10	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:05	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:05	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:05	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 09:12	11/16/2018 14:05	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 09:12	11/16/2018 14:05	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:05	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:05	LLJ
127-18-4	Tetrachloroethylene	7.6		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:05	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:05	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:05	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:05	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:05	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.7	15	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/16/2018 09:12	11/16/2018 14:05	LLJ
	Surrogate Recoveries	Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	101 %			77-125						



Sample Information

Client Sample ID: SB-65B

York Sample ID: 18K0528-24

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 1:35 pm

11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
2037-26-5	Surrogate: SURR: Toluene-d8	107 %			85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	108 %			76-130						

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:18	OW
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:18	OW
83-32-9	Acenaphthene	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:18	OW
208-96-8	Acenaphthylene	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:18	OW
120-12-7	Anthracene	64.0	J	ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:18	OW
56-55-3	Benzo(a)anthracene	292		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:18	OW
50-32-8	Benzo(a)pyrene	371		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:18	OW
205-99-2	Benzo(b)fluoranthene	303		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:18	OW
191-24-2	Benzo(g,h,i)perylene	239		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:18	OW
207-08-9	Benzo(k)fluoranthene	329		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:18	OW
218-01-9	Chrysene	336		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:18	OW
53-70-3	Dibenzo(a,h)anthracene	79.1	J	ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:18	OW
132-64-9	Dibenzofuran	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:18	OW
206-44-0	Fluoranthene	713		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:18	OW
86-73-7	Fluorene	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:18	OW
118-74-1	Hexachlorobenzene	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:18	OW
193-39-5	Indeno(1,2,3-cd)pyrene	219		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:18	OW
91-20-3	Naphthalene	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:18	OW



Sample Information

Client Sample ID: SB-65B

York Sample ID: 18K0528-24

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 1:35 pm

11/14/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-86-5	Pentachlorophenol	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:18	OW
85-01-8	Phenanthrene	385		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:18	OW
108-95-2	Phenol	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:18	OW
129-00-0	Pyrene	518		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:18	OW
Surrogate Recoveries		Result			Acceptance Range						
367-12-4	Surrogate: SURR: 2-Fluorophenol	73.4 %			20-108						
4165-62-2	Surrogate: SURR: Phenol-d5	68.6 %			23-114						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	79.1 %			22-108						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	81.0 %			21-113						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	93.8 %			19-110						
1718-51-0	Surrogate: SURR: Terphenyl-d14	83.0 %			24-116						

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 00:05	TJD
72-55-9	4,4'-DDE	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 00:05	TJD
50-29-3	4,4'-DDT	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 00:05	TJD
309-00-2	Aldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 00:05	TJD
319-84-6	alpha-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 00:05	TJD
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/20/2018 07:28	11/22/2018 00:05	TJD
319-85-7	beta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 00:05	TJD
319-86-8	delta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 00:05	TJD
60-57-1	Dieldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 00:05	TJD
959-98-8	Endosulfan I	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 00:05	TJD
33213-65-9	Endosulfan II	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/20/2018 07:28	11/22/2018 00:05	TJD
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 00:05	TJD



Sample Information

Client Sample ID: SB-65B

York Sample ID: 18K0528-24

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 1:35 pm

11/14/2018

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-20-8	Endrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 00:05	TJD
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 00:05	TJD
76-44-8	Heptachlor	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 00:05	TJD
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	72.1 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	82.0 %	30-150							

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 21:39	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 21:39	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 21:39	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 21:39	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 21:39	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 21:39	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 21:39	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications:	11/20/2018 07:28	11/21/2018 21:39	TJD
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	71.3 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	49.8 %	30-140							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	3190	B	mg/kg dry	5.16	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:13	KML
7440-36-0	Antimony	ND		mg/kg dry	2.58	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:13	KML



Sample Information

Client Sample ID: SB-65B

York Sample ID: 18K0528-24

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Matrix

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37321-STX 27-10 49th Ave

Soil

November 13, 2018 1:35 pm

11/14/2018

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	3.54	B	mg/kg dry	1.55	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:13	KML
7440-39-3	Barium	43.6		mg/kg dry	2.58	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:13	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.052	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:13	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.310	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:13	KML
7440-70-2	Calcium	13900		mg/kg dry	5.16	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:13	KML
7440-47-3	Chromium	7.82		mg/kg dry	0.516	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:13	KML
7440-48-4	Cobalt	3.72		mg/kg dry	0.413	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:13	KML
7440-50-8	Copper	69.5		mg/kg dry	2.06	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:13	KML
7439-89-6	Iron	7620		mg/kg dry	25.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:13	KML
7439-92-1	Lead	19.6		mg/kg dry	0.516	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:13	KML
7439-95-4	Magnesium	7520		mg/kg dry	5.16	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:13	KML
7439-96-5	Manganese	140		mg/kg dry	0.516	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:13	KML
7440-02-0	Nickel	11.1		mg/kg dry	1.03	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:13	KML
7440-09-7	Potassium	635		mg/kg dry	5.16	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:13	KML
7782-49-2	Selenium	ND		mg/kg dry	2.58	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:13	KML
7440-22-4	Silver	ND		mg/kg dry	0.516	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:13	KML
7440-23-5	Sodium	494		mg/kg dry	51.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:13	KML
7440-28-0	Thallium	ND		mg/kg dry	2.58	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:13	KML
7440-62-2	Vanadium	10.1		mg/kg dry	1.03	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:13	KML
7440-66-6	Zinc	38.1	B	mg/kg dry	2.58	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:13	KML

Mercury by 7473

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB-65B

York Sample ID: 18K0528-24

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 1:35 pm	<u>Date Received</u> 11/14/2018
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Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.224		mg/kg dry	0.0310	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/15/2018 09:41	11/15/2018 17:59	SY

Total Solids

Log-in Notes:

Sample Notes:

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	96.9		%	0.100	1	SM 2540G Certifications: CTDOH	11/19/2018 12:54	11/19/2018 17:09	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.516	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/21/2018 08:45	11/21/2018 16:35	MAC

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	7.82		mg/kg	0.500	1	Calculation Certifications:	11/30/2018 14:23	11/30/2018 14:34	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.516	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/21/2018 07:23	11/21/2018 14:53	JTV

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:35		
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:35		
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:35		



Sample Information

Client Sample ID: SB-65B

York Sample ID: 18K0528-24

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 1:35 pm	<u>Date Received</u> 11/14/2018
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Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:35		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:35		
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:35		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:35		
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:35		
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:35		
	NMeFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:35		
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:35		
	NEtFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:35		
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:35		
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:35		
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:35		
	Surrogate Recoveries	Result		Acceptance Range						
	Surrogate: 13C-PFHxA	%		70-130						
	Surrogate: 13C-PFDA	%		70-130						
	Surrogate: d5-NEtFOSAA	%		70-130						

Sample Information

Client Sample ID: SB-66A

York Sample ID: 18K0528-25

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 1:41 pm	<u>Date Received</u> 11/14/2018
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Volatile Organics, NYSDEC Part 375 List

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
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@		



Sample Information

Client Sample ID: SB-66A

York Sample ID: 18K0528-25

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 1:41 pm

11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:37	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:37	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:37	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:37	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:37	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:37	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:37	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:37	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:37	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	54	110	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:37	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:37	LLJ
67-64-1	Acetone	ND		ug/kg dry	5.4	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:37	LLJ
71-43-2	Benzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:37	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:37	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:37	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:37	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:37	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:37	LLJ
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,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:37	LLJ
75-09-2	Methylene chloride	ND		ug/kg dry	5.4	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:37	LLJ
91-20-3	Naphthalene	ND		ug/kg dry	2.7	11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:37	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:37	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:37	LLJ



Sample Information

Client Sample ID: SB-66A

York Sample ID: 18K0528-25

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 1:41 pm

11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
95-47-6	o-Xylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 09:12	11/16/2018 14:37	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.4	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 09:12	11/16/2018 14:37	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:37	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:37	LLJ
127-18-4	Tetrachloroethylene	25		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:37	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:37	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:37	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:37	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 14:37	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.1	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/16/2018 09:12	11/16/2018 14:37	LLJ
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	101 %	77-125								
2037-26-5	Surrogate: SURR: Toluene-d8	107 %	85-120								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	107 %	76-130								

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	45.1	90.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:50	OW
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	45.1	90.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:50	OW
83-32-9	Acenaphthene	ND		ug/kg dry	45.1	90.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:50	OW
208-96-8	Acenaphthylene	50.4	J	ug/kg dry	45.1	90.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:50	OW
120-12-7	Anthracene	49.7	J	ug/kg dry	45.1	90.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:50	OW
56-55-3	Benzo(a)anthracene	178		ug/kg dry	45.1	90.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:50	OW
50-32-8	Benzo(a)pyrene	237		ug/kg dry	45.1	90.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:50	OW



Sample Information

Client Sample ID: SB-66A

York Sample ID: 18K0528-25

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 1:41 pm

11/14/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
205-99-2	Benzo(b)fluoranthene	204		ug/kg dry	45.1	90.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:50	OW
191-24-2	Benzo(g,h,i)perylene	176		ug/kg dry	45.1	90.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:50	OW
207-08-9	Benzo(k)fluoranthene	197		ug/kg dry	45.1	90.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:50	OW
218-01-9	Chrysene	211		ug/kg dry	45.1	90.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:50	OW
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	45.1	90.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:50	OW
132-64-9	Dibenzofuran	ND		ug/kg dry	45.1	90.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:50	OW
206-44-0	Fluoranthene	386		ug/kg dry	45.1	90.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:50	OW
86-73-7	Fluorene	ND		ug/kg dry	45.1	90.1	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:50	OW
118-74-1	Hexachlorobenzene	ND		ug/kg dry	45.1	90.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:50	OW
193-39-5	Indeno(1,2,3-cd)pyrene	156		ug/kg dry	45.1	90.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:50	OW
91-20-3	Naphthalene	ND		ug/kg dry	45.1	90.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:50	OW
87-86-5	Pentachlorophenol	ND		ug/kg dry	45.1	90.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:50	OW
85-01-8	Phenanthrene	177		ug/kg dry	45.1	90.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:50	OW
108-95-2	Phenol	ND		ug/kg dry	45.1	90.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:50	OW
129-00-0	Pyrene	302		ug/kg dry	45.1	90.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 16:50	OW
Surrogate Recoveries		Result	Acceptance Range								
367-12-4	Surrogate: SURR: 2-Fluorophenol	63.5 %	20-108								
4165-62-2	Surrogate: SURR: Phenol-d5	60.1 %	23-114								
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	71.1 %	22-108								
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	70.3 %	21-113								
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	74.6 %	19-110								
1718-51-0	Surrogate: SURR: Terphenyl-d14	70.6 %	24-116								

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

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: SB-66A

York Sample ID: 18K0528-25

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 1:41 pm

11/14/2018

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 00:20	TJD
72-55-9	4,4'-DDE	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 00:20	TJD
50-29-3	4,4'-DDT	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 00:20	TJD
309-00-2	Aldrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 00:20	TJD
319-84-6	alpha-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 00:20	TJD
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/20/2018 07:28	11/22/2018 00:20	TJD
319-85-7	beta-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 00:20	TJD
319-86-8	delta-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 00:20	TJD
60-57-1	Dieldrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 00:20	TJD
959-98-8	Endosulfan I	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 00:20	TJD
33213-65-9	Endosulfan II	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/20/2018 07:28	11/22/2018 00:20	TJD
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 00:20	TJD
72-20-8	Endrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 00:20	TJD
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 00:20	TJD
76-44-8	Heptachlor	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 00:20	TJD
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	78.6 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	78.3 %	30-150							

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 21:53	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 21:53	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 21:53	TJD



Sample Information

Client Sample ID: SB-66A

York Sample ID: 18K0528-25

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 1:41 pm

11/14/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 21:53	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 21:53	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 21:53	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 21:53	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications:	11/20/2018 07:28	11/21/2018 21:53	TJD
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	74.8 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	51.2 %	30-140							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	3540	B	mg/kg dry	5.40	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:15	KML
7440-36-0	Antimony	ND		mg/kg dry	2.70	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:15	KML
7440-38-2	Arsenic	2.65	B	mg/kg dry	1.62	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:15	KML
7440-39-3	Barium	67.9		mg/kg dry	2.70	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:15	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.054	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:15	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.324	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:15	KML
7440-70-2	Calcium	7440		mg/kg dry	5.40	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:15	KML
7440-47-3	Chromium	7.08		mg/kg dry	0.540	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:15	KML
7440-48-4	Cobalt	4.43		mg/kg dry	0.432	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:15	KML
7440-50-8	Copper	17.2		mg/kg dry	2.16	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:15	KML
7439-89-6	Iron	6260		mg/kg dry	27.0	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:15	KML
7439-92-1	Lead	126		mg/kg dry	0.540	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:15	KML
7439-95-4	Magnesium	1580		mg/kg dry	5.40	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:15	KML



Sample Information

Client Sample ID: SB-66A

York Sample ID: 18K0528-25

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 1:41 pm

11/14/2018

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	223		mg/kg dry	0.540	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:15	KML
7440-02-0	Nickel	7.71		mg/kg dry	1.08	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:15	KML
7440-09-7	Potassium	1190		mg/kg dry	5.40	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:15	KML
7782-49-2	Selenium	ND		mg/kg dry	2.70	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:15	KML
7440-22-4	Silver	ND		mg/kg dry	0.540	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:15	KML
7440-23-5	Sodium	474		mg/kg dry	54.0	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:15	KML
7440-28-0	Thallium	ND		mg/kg dry	2.70	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:15	KML
7440-62-2	Vanadium	10.0		mg/kg dry	1.08	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:15	KML
7440-66-6	Zinc	169	B	mg/kg dry	2.70	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:15	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.0608		mg/kg dry	0.0324	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/15/2018 09:41	11/15/2018 18:08	SY

Total Solids

Log-in Notes:

Sample Notes:

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	92.6		%	0.100	1	SM 2540G Certifications: CTDOH	11/19/2018 12:54	11/19/2018 17:09	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.540	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/21/2018 08:45	11/21/2018 16:35	MAC

Chromium, Trivalent

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB-66A

York Sample ID: 18K0528-25

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 1:41 pm	<u>Date Received</u> 11/14/2018
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Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	7.08		mg/kg	0.500	1	Calculation	11/30/2018 14:23	11/30/2018 14:34	PAM

Certifications:

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.540	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/21/2018 07:23	11/21/2018 14:53	JTV

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:41		
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:41		
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:41		
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:41		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:41		
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:41		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:41		
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:41		
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:41		
	NMeFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:41		
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:41		
	NEtFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:41		
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:41		
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:41		
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:41		



Sample Information

Client Sample ID: SB-66A

York Sample ID: 18K0528-25

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 1:41 pm	<u>Date Received</u> 11/14/2018
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Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries		Result	Acceptance Range							
	Surrogate: 13C-PFHxA	%		70-130						
	Surrogate: 13C-PFDA	%		70-130						
	Surrogate: d5-NEtFOSAA	%		70-130						

Sample Information

Client Sample ID: SB-66B

York Sample ID: 18K0528-26

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 1:49 pm	<u>Date Received</u> 11/14/2018
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Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:10	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:10	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:10	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:10	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:10	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:10	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:10	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:10	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:10	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	58	120	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:10	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:10	LLJ
67-64-1	Acetone	ND		ug/kg dry	5.8	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:10	LLJ



Sample Information

Client Sample ID: SB-66B

York Sample ID: 18K0528-26

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 1:49 pm

11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
71-43-2	Benzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:10	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:10	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:10	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:10	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:10	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:10	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:10	LLJ
75-09-2	Methylene chloride	9.8	J	ug/kg dry	5.8	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:10	LLJ
91-20-3	Naphthalene	ND		ug/kg dry	2.9	12	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:10	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:10	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:10	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 09:12	11/16/2018 15:10	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.8	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 09:12	11/16/2018 15:10	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:10	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:10	LLJ
127-18-4	Tetrachloroethylene	68		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:10	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:10	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:10	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:10	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:10	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.6	17	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/16/2018 09:12	11/16/2018 15:10	LLJ

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	102 %	77-125
2037-26-5	Surrogate: SURR: Toluene-d8	105 %	85-120
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	112 %	76-130



Sample Information

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11/14/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	48.0	95.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 20:30	OW
65794-96-9	3- & 4-Methylphenols	93.4	J	ug/kg dry	48.0	95.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 20:30	OW
83-32-9	Acenaphthene	5270		ug/kg dry	480	957	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/25/2018 12:49	OW
208-96-8	Acenaphthylene	1210		ug/kg dry	48.0	95.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 20:30	OW
120-12-7	Anthracene	16800		ug/kg dry	480	957	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/25/2018 12:49	OW
56-55-3	Benzo(a)anthracene	31600		ug/kg dry	2400	4790	100	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/25/2018 12:18	OW
50-32-8	Benzo(a)pyrene	32000		ug/kg dry	2400	4790	100	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/25/2018 12:18	OW
205-99-2	Benzo(b)fluoranthene	26500		ug/kg dry	480	957	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/25/2018 12:49	OW
191-24-2	Benzo(g,h,i)perylene	20400		ug/kg dry	480	957	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/25/2018 12:49	OW
207-08-9	Benzo(k)fluoranthene	26800		ug/kg dry	480	957	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/25/2018 12:49	OW
218-01-9	Chrysene	32600		ug/kg dry	2400	4790	100	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/25/2018 12:18	OW
53-70-3	Dibenzo(a,h)anthracene	6960		ug/kg dry	480	957	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/25/2018 12:49	OW
132-64-9	Dibenzofuran	3310		ug/kg dry	480	957	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/25/2018 12:49	OW
206-44-0	Fluoranthene	91200		ug/kg dry	2400	4790	100	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/25/2018 12:18	OW
86-73-7	Fluorene	5310		ug/kg dry	480	957	20	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/25/2018 12:49	OW
118-74-1	Hexachlorobenzene	ND		ug/kg dry	48.0	95.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 20:30	OW
193-39-5	Indeno(1,2,3-cd)pyrene	20300		ug/kg dry	480	957	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/25/2018 12:49	OW
91-20-3	Naphthalene	476		ug/kg dry	48.0	95.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 20:30	OW
87-86-5	Pentachlorophenol	ND		ug/kg dry	48.0	95.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 20:30	OW
85-01-8	Phenanthrene	78000		ug/kg dry	2400	4790	100	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/25/2018 12:18	OW
108-95-2	Phenol	ND		ug/kg dry	48.0	95.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 20:30	OW



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Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
129-00-0	Pyrene	70300		ug/kg dry	2400	4790	100	EPA 8270D	11/20/2018 07:19	11/22/2018 12:18	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
	Surrogate Recoveries	Result									Acceptance Range
367-12-4	Surrogate: SURR: 2-Fluorophenol	63.3 %									20-108
4165-62-2	Surrogate: SURR: Phenol-d5	65.1 %									23-114
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	66.9 %									22-108
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	72.4 %									21-113
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	86.1 %									19-110
1718-51-0	Surrogate: SURR: Terphenyl-d14	71.9 %									24-116

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.65	5	EPA 8081B	11/20/2018 07:28	11/22/2018 00:35	TJD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-55-9	4,4'-DDE	ND		ug/kg dry	1.65	5	EPA 8081B	11/20/2018 07:28	11/22/2018 00:35	TJD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-29-3	4,4'-DDT	ND		ug/kg dry	1.65	5	EPA 8081B	11/20/2018 07:28	11/22/2018 00:35	TJD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
309-00-2	Aldrin	ND		ug/kg dry	1.65	5	EPA 8081B	11/20/2018 07:28	11/22/2018 00:35	TJD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-84-6	alpha-BHC	ND		ug/kg dry	1.65	5	EPA 8081B	11/20/2018 07:28	11/22/2018 00:35	TJD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.65	5	EPA 8081B	11/20/2018 07:28	11/22/2018 00:35	TJD
							Certifications:	NELAC-NY10854,NJDEP		
319-85-7	beta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B	11/20/2018 07:28	11/22/2018 00:35	TJD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-86-8	delta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B	11/20/2018 07:28	11/22/2018 00:35	TJD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
60-57-1	Dieldrin	ND		ug/kg dry	1.65	5	EPA 8081B	11/20/2018 07:28	11/22/2018 00:35	TJD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
959-98-8	Endosulfan I	ND		ug/kg dry	1.65	5	EPA 8081B	11/20/2018 07:28	11/22/2018 00:35	TJD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
33213-65-9	Endosulfan II	ND		ug/kg dry	1.65	5	EPA 8081B	11/20/2018 07:28	11/22/2018 00:35	TJD
							Certifications:	CTDOH,NELAC-NY10854		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.65	5	EPA 8081B	11/20/2018 07:28	11/22/2018 00:35	TJD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-20-8	Endrin	ND		ug/kg dry	1.65	5	EPA 8081B	11/20/2018 07:28	11/22/2018 00:35	TJD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.65	5	EPA 8081B	11/20/2018 07:28	11/22/2018 00:35	TJD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
76-44-8	Heptachlor	ND		ug/kg dry	1.65	5	EPA 8081B	11/20/2018 07:28	11/22/2018 00:35	TJD
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		



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Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	76.2 %								
877-09-8	Surrogate: Tetrachloro-m-xylene	77.9 %								

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 22:06	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 22:06	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 22:06	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 22:06	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 22:06	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 22:06	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 22:06	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications:	11/20/2018 07:28	11/21/2018 22:06	TJD
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	63.9 %								
2051-24-3	Surrogate: Decachlorobiphenyl	43.8 %								

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	10500	B	mg/kg dry	5.76	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:17	KML
7440-36-0	Antimony	ND		mg/kg dry	2.88	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:17	KML
7440-38-2	Arsenic	ND		mg/kg dry	1.73	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:17	KML
7440-39-3	Barium	88.0		mg/kg dry	2.88	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:17	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.058	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:17	KML



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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	Cadmium	0.569		mg/kg dry	0.346	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:17	KML
7440-70-2	Calcium	29700		mg/kg dry	5.76	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:17	KML
7440-47-3	Chromium	19.1		mg/kg dry	0.576	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:17	KML
7440-48-4	Cobalt	7.69		mg/kg dry	0.461	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:17	KML
7440-50-8	Copper	43.8		mg/kg dry	2.30	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:17	KML
7439-89-6	Iron	17000		mg/kg dry	28.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:17	KML
7439-92-1	Lead	533		mg/kg dry	0.576	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:17	KML
7439-95-4	Magnesium	3160		mg/kg dry	5.76	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:17	KML
7439-96-5	Manganese	223		mg/kg dry	0.576	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:17	KML
7440-02-0	Nickel	17.8		mg/kg dry	1.15	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:17	KML
7440-09-7	Potassium	2730		mg/kg dry	5.76	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:17	KML
7782-49-2	Selenium	ND		mg/kg dry	2.88	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:17	KML
7440-22-4	Silver	ND		mg/kg dry	0.576	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:17	KML
7440-23-5	Sodium	672		mg/kg dry	57.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:17	KML
7440-28-0	Thallium	ND		mg/kg dry	2.88	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:17	KML
7440-62-2	Vanadium	24.1		mg/kg dry	1.15	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:17	KML
7440-66-6	Zinc	80.2	B	mg/kg dry	2.88	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:17	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.0897		mg/kg dry	0.0346	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/15/2018 09:41	11/15/2018 18:16	SY



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Total Solids

Log-in Notes:

Sample Notes:

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	86.8		%	0.100	1	SM 2540G Certifications: CTDOH	11/19/2018 12:54	11/19/2018 17:09	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.576	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/21/2018 08:45	11/21/2018 16:35	MAC

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	19.1		mg/kg	0.500	1	Calculation Certifications:	11/30/2018 14:23	11/30/2018 14:34	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.576	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/21/2018 07:23	11/21/2018 14:53	JTV

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:49		
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:49		
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:49		
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:49		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:49		
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:49		



Sample Information

Client Sample ID: SB-66B

York Sample ID: 18K0528-26

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 1:49 pm	<u>Date Received</u> 11/14/2018
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Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:49		
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:49		
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:49		
	NMeFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:49		
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:49		
	NEtFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:49		
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:49		
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:49		
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:49		
Surrogate Recoveries		Result	Acceptance Range							
	Surrogate: 13C-PFHxA	%	70-130							
	Surrogate: 13C-PFDA	%	70-130							
	Surrogate: d5-NEtFOSAA	%	70-130							

Sample Information

Client Sample ID: SB-67A

York Sample ID: 18K0528-27

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 1:57 pm	<u>Date Received</u> 11/14/2018
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Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:42	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:42	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:42	LLJ



Sample Information

Client Sample ID: SB-67A

York Sample ID: 18K0528-27

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 1:57 pm

11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:42	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:42	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:42	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:42	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:42	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:42	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	52	100	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:42	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:42	LLJ
67-64-1	Acetone	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:42	LLJ
71-43-2	Benzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:42	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:42	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:42	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:42	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:42	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:42	LLJ
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,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:42	LLJ
75-09-2	Methylene chloride	5.3	J	ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:42	LLJ
91-20-3	Naphthalene	ND		ug/kg dry	2.6	10	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:42	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:42	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:42	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 09:12	11/16/2018 15:42	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 09:12	11/16/2018 15:42	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:42	LLJ



Sample Information

Client Sample ID: SB-67A

York Sample ID: 18K0528-27

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 1:57 pm

11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:42	LLJ
127-18-4	Tetrachloroethylene	100		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:42	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:42	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:42	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:42	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 15:42	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.8	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/16/2018 09:12	11/16/2018 15:42	LLJ
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	107 %			77-125						
2037-26-5	Surrogate: SURRE: Toluene-d8	111 %			85-120						
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	129 %			76-130						

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	217	433	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:21	OW
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	217	433	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:21	OW
83-32-9	Acenaphthene	ND		ug/kg dry	217	433	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:21	OW
208-96-8	Acenaphthylene	ND		ug/kg dry	217	433	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:21	OW
120-12-7	Anthracene	505		ug/kg dry	217	433	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:21	OW
56-55-3	Benzo(a)anthracene	3520		ug/kg dry	217	433	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:21	OW
50-32-8	Benzo(a)pyrene	3900		ug/kg dry	217	433	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:21	OW
205-99-2	Benzo(b)fluoranthene	4210		ug/kg dry	217	433	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:21	OW
191-24-2	Benzo(g,h,i)perylene	3080		ug/kg dry	217	433	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:21	OW
207-08-9	Benzo(k)fluoranthene	3880		ug/kg dry	217	433	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:21	OW



Sample Information

Client Sample ID: SB-67A

York Sample ID: 18K0528-27

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 1:57 pm

11/14/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
218-01-9	Chrysene	4810		ug/kg dry	217	433	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:21	OW
53-70-3	Dibenzo(a,h)anthracene	886		ug/kg dry	217	433	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:21	OW
132-64-9	Dibenzofuran	ND		ug/kg dry	217	433	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:21	OW
206-44-0	Fluoranthene	10100		ug/kg dry	217	433	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:21	OW
86-73-7	Fluorene	294	J	ug/kg dry	217	433	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:21	OW
118-74-1	Hexachlorobenzene	ND		ug/kg dry	217	433	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:21	OW
193-39-5	Indeno(1,2,3-cd)pyrene	2840		ug/kg dry	217	433	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:21	OW
91-20-3	Naphthalene	ND		ug/kg dry	217	433	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:21	OW
87-86-5	Pentachlorophenol	ND		ug/kg dry	217	433	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:21	OW
85-01-8	Phenanthrene	4540		ug/kg dry	217	433	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:21	OW
108-95-2	Phenol	ND		ug/kg dry	217	433	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:21	OW
129-00-0	Pyrene	6560		ug/kg dry	217	433	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:21	OW
Surrogate Recoveries		Result			Acceptance Range						
367-12-4	Surrogate: SURR: 2-Fluorophenol	38.6 %			20-108						
4165-62-2	Surrogate: SURR: Phenol-d5	27.4 %			23-114						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	40.4 %			22-108						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	30.8 %			21-113						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	32.6 %			19-110						
1718-51-0	Surrogate: SURR: Terphenyl-d14	%	S-01		24-116						

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 00:50	TJD
72-55-9	4,4'-DDE	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 00:50	TJD
50-29-3	4,4'-DDT	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 00:50	TJD



Sample Information

Client Sample ID: SB-67A

York Sample ID: 18K0528-27

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 1:57 pm

11/14/2018

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
309-00-2	Aldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 00:50	TJD
319-84-6	alpha-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 00:50	TJD
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/20/2018 07:28	11/22/2018 00:50	TJD
319-85-7	beta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 00:50	TJD
319-86-8	delta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 00:50	TJD
60-57-1	Dieldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 00:50	TJD
959-98-8	Endosulfan I	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 00:50	TJD
33213-65-9	Endosulfan II	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/20/2018 07:28	11/22/2018 00:50	TJD
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 00:50	TJD
72-20-8	Endrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 00:50	TJD
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 00:50	TJD
76-44-8	Heptachlor	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 00:50	TJD
	Surrogate Recoveries	Result					Acceptance Range			
2051-24-3	Surrogate: Decachlorobiphenyl	56.5 %					30-150			
877-09-8	Surrogate: Tetrachloro-m-xylene	63.9 %					30-150			

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 22:20	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 22:20	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 22:20	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 22:20	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 22:20	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 22:20	TJD



Sample Information

Client Sample ID: SB-67A

York Sample ID: 18K0528-27

York Project (SDG) No.

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Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 22:20	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications:	11/20/2018 07:28	11/21/2018 22:20	TJD
Surrogate Recoveries		Result					Acceptance Range			
877-09-8	Surrogate: Tetrachloro-m-xylene	54.5 %					30-140			
2051-24-3	Surrogate: Decachlorobiphenyl	41.8 %					30-140			

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	3200	B	mg/kg dry	5.19	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:19	KML
7440-36-0	Antimony	ND		mg/kg dry	2.60	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:19	KML
7440-38-2	Arsenic	2.03	B	mg/kg dry	1.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:19	KML
7440-39-3	Barium	19.7		mg/kg dry	2.60	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:19	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.052	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:19	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.312	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:19	KML
7440-70-2	Calcium	31200		mg/kg dry	5.19	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:19	KML
7440-47-3	Chromium	15.8		mg/kg dry	0.519	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:19	KML
7440-48-4	Cobalt	4.67		mg/kg dry	0.415	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:19	KML
7440-50-8	Copper	34.4		mg/kg dry	2.08	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:19	KML
7439-89-6	Iron	9490		mg/kg dry	26.0	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:19	KML
7439-92-1	Lead	81.8		mg/kg dry	0.519	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:19	KML
7439-95-4	Magnesium	16500		mg/kg dry	5.19	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:19	KML
7439-96-5	Manganese	123		mg/kg dry	0.519	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:19	KML
7440-02-0	Nickel	8.56		mg/kg dry	1.04	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:19	KML



Sample Information

Client Sample ID: SB-67A

York Sample ID: 18K0528-27

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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	Potassium	504		mg/kg dry	5.19	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:19	KML
7782-49-2	Selenium	3.30		mg/kg dry	2.60	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:19	KML
7440-22-4	Silver	ND		mg/kg dry	0.519	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:19	KML
7440-23-5	Sodium	396		mg/kg dry	51.9	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:19	KML
7440-28-0	Thallium	ND		mg/kg dry	2.60	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:19	KML
7440-62-2	Vanadium	29.6		mg/kg dry	1.04	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:19	KML
7440-66-6	Zinc	40.6	B	mg/kg dry	2.60	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:19	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.0597		mg/kg dry	0.0312	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/15/2018 09:41	11/15/2018 18:25	SY

Total Solids

Log-in Notes:

Sample Notes:

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	96.3		%	0.100	1	SM 2540G Certifications: CTDOH	11/19/2018 12:54	11/19/2018 17:09	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	4.49		mg/kg dry	0.519	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/21/2018 08:45	11/21/2018 16:35	MAC

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	15.8		mg/kg	0.500	1	Calculation Certifications:	11/30/2018 14:23	11/30/2018 14:34	PAM



Sample Information

Client Sample ID: SB-67A

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Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.519	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/21/2018 07:23	11/21/2018 14:53	JTV

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:57		
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:57		
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:57		
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:57		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:57		
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:57		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:57		
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:57		
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:57		
	NMeFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:57		
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:57		
	NEtFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:57		
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:57		
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:57		
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 13:57		
	Surrogate Recoveries	Result					Acceptance Range			
	Surrogate: 13C-PFHxA	%					70-130			
	Surrogate: 13C-PFDA	%					70-130			
	Surrogate: d5-NEtFOSAA	%					70-130			



Sample Information

Client Sample ID: SB-67A

York Sample ID: 18K0528-27

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
18K0528	37321-STX 27-10 49th Ave	Soil	November 13, 2018 1:57 pm	11/14/2018

Sample Information

Client Sample ID: SB-67B

York Sample ID: 18K0528-28

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
18K0528	37321-STX 27-10 49th Ave	Soil	November 13, 2018 2:00 pm	11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:14	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:14	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:14	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:14	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:14	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:14	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:14	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:14	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:14	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	56	110	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:14	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:14	LLJ
67-64-1	Acetone	ND		ug/kg dry	5.6	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:14	LLJ
71-43-2	Benzene	5.5	J	ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:14	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:14	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:14	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:14	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:14	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:14	LLJ



Sample Information

Client Sample ID: SB-67B

York Sample ID: 18K0528-28

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

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Volatile Organics, NYSDEC Part 375 List

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
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:14	LLJ
75-09-2	Methylene chloride	ND		ug/kg dry	5.6	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:14	LLJ
91-20-3	Naphthalene	ND		ug/kg dry	2.8	11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:14	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:14	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:14	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 09:12	11/16/2018 16:14	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.6	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 09:12	11/16/2018 16:14	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:14	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:14	LLJ
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:14	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:14	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:14	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:14	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.8	5.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:14	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.4	17	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/16/2018 09:12	11/16/2018 16:14	LLJ
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	102 %			77-125						
2037-26-5	Surrogate: SURR: Toluene-d8	109 %			85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	109 %			76-130						

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	46.8	93.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:53	OW
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	46.8	93.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:53	OW
83-32-9	Acenaphthene	80.7	J	ug/kg dry	46.8	93.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:53	OW



Sample Information

Client Sample ID: SB-67B

York Sample ID: 18K0528-28

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 2:00 pm

11/14/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
208-96-8	Acenaphthylene	68.0	J	ug/kg dry	46.8	93.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:53	OW
120-12-7	Anthracene	279		ug/kg dry	46.8	93.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:53	OW
56-55-3	Benzo(a)anthracene	982		ug/kg dry	46.8	93.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:53	OW
50-32-8	Benzo(a)pyrene	1040		ug/kg dry	46.8	93.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:53	OW
205-99-2	Benzo(b)fluoranthene	830		ug/kg dry	46.8	93.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:53	OW
191-24-2	Benzo(g,h,i)perylene	653		ug/kg dry	46.8	93.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:53	OW
207-08-9	Benzo(k)fluoranthene	902		ug/kg dry	46.8	93.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:53	OW
218-01-9	Chrysene	1120		ug/kg dry	46.8	93.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:53	OW
53-70-3	Dibenzo(a,h)anthracene	232		ug/kg dry	46.8	93.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:53	OW
132-64-9	Dibenzofuran	ND		ug/kg dry	46.8	93.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:53	OW
206-44-0	Fluoranthene	2210		ug/kg dry	46.8	93.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:53	OW
86-73-7	Fluorene	92.6	J	ug/kg dry	46.8	93.4	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:53	OW
118-74-1	Hexachlorobenzene	ND		ug/kg dry	46.8	93.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:53	OW
193-39-5	Indeno(1,2,3-cd)pyrene	601		ug/kg dry	46.8	93.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:53	OW
91-20-3	Naphthalene	103		ug/kg dry	46.8	93.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:53	OW
87-86-5	Pentachlorophenol	ND		ug/kg dry	46.8	93.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:53	OW
85-01-8	Phenanthrene	1430		ug/kg dry	46.8	93.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:53	OW
108-95-2	Phenol	ND		ug/kg dry	46.8	93.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:53	OW
129-00-0	Pyrene	1770		ug/kg dry	46.8	93.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 17:53	OW

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	Surrogate: SURR: 2-Fluorophenol	66.2 %	20-108
4165-62-2	Surrogate: SURR: Phenol-d5	67.2 %	23-114
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	72.9 %	22-108
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	81.4 %	21-113



Sample Information

Client Sample ID: SB-67B

York Sample ID: 18K0528-28

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 2:00 pm

11/14/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	87.2 %			19-110						
1718-51-0	Surrogate: SURR: Terphenyl-d14	76.1 %			24-116						

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:05	TJD
72-55-9	4,4'-DDE	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:05	TJD
50-29-3	4,4'-DDT	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:05	TJD
309-00-2	Aldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:05	TJD
319-84-6	alpha-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:05	TJD
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/20/2018 07:28	11/22/2018 01:05	TJD
319-85-7	beta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:05	TJD
319-86-8	delta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:05	TJD
60-57-1	Dieldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:05	TJD
959-98-8	Endosulfan I	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:05	TJD
33213-65-9	Endosulfan II	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/20/2018 07:28	11/22/2018 01:05	TJD
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:05	TJD
72-20-8	Endrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:05	TJD
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:05	TJD
76-44-8	Heptachlor	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:05	TJD
	Surrogate Recoveries	Result			Acceptance Range					
2051-24-3	Surrogate: Decachlorobiphenyl	51.3 %			30-150					
877-09-8	Surrogate: Tetrachloro-m-xylene	63.6 %			30-150					

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB-67B

York Sample ID: 18K0528-28

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 2:00 pm	<u>Date Received</u> 11/14/2018
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Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 22:33	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 22:33	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 22:33	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 22:33	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 22:33	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 22:33	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 22:33	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications:	11/20/2018 07:28	11/21/2018 22:33	TJD
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	60.9 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	40.8 %	30-140							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	10200	B	mg/kg dry	5.62	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:22	KML
7440-36-0	Antimony	ND		mg/kg dry	2.81	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:22	KML
7440-38-2	Arsenic	ND		mg/kg dry	1.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:22	KML
7440-39-3	Barium	266		mg/kg dry	2.81	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:22	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.056	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:22	KML
7440-43-9	Cadmium	0.437		mg/kg dry	0.337	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:22	KML
7440-70-2	Calcium	3250		mg/kg dry	5.62	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:22	KML
7440-47-3	Chromium	25.0		mg/kg dry	0.562	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:22	KML
7440-48-4	Cobalt	16.8		mg/kg dry	0.450	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:22	KML
7440-50-8	Copper	72.2		mg/kg dry	2.25	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:22	KML



Sample Information

Client Sample ID: SB-67B

York Sample ID: 18K0528-28

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 2:00 pm

11/14/2018

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	24300		mg/kg dry	28.1	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:22	KML
7439-92-1	Lead	160		mg/kg dry	0.562	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:22	KML
7439-95-4	Magnesium	6090		mg/kg dry	5.62	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:22	KML
7439-96-5	Manganese	468		mg/kg dry	0.562	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:22	KML
7440-02-0	Nickel	34.0		mg/kg dry	1.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:22	KML
7440-09-7	Potassium	6760		mg/kg dry	5.62	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:22	KML
7782-49-2	Selenium	ND		mg/kg dry	2.81	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:22	KML
7440-22-4	Silver	ND		mg/kg dry	0.562	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:22	KML
7440-23-5	Sodium	352		mg/kg dry	56.2	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:22	KML
7440-28-0	Thallium	ND		mg/kg dry	2.81	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:22	KML
7440-62-2	Vanadium	44.0		mg/kg dry	1.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:22	KML
7440-66-6	Zinc	76.7	B	mg/kg dry	2.81	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:22	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.228		mg/kg dry	0.0337	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/15/2018 09:41	11/15/2018 18:34	SY

Total Solids

Log-in Notes:

Sample Notes:

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	89.0		%	0.100	1	SM 2540G Certifications: CTDOH	11/19/2018 12:54	11/19/2018 17:09	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB-67B

York Sample ID: 18K0528-28

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 2:00 pm	<u>Date Received</u> 11/14/2018
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Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.562	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/21/2018 08:45	11/21/2018 16:35	MAC

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	20.5		mg/kg	0.500	1	Calculation Certifications:	11/30/2018 14:23	11/30/2018 14:34	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	0.742		mg/kg dry	0.562	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/21/2018 07:23	11/21/2018 14:53	JTV

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:00		
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:00		
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:00		
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:00		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:00		
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:00		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:00		
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:00		
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:00		
	NMeFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:00		
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:00		



Sample Information

Client Sample ID: SB-67B

York Sample ID: 18K0528-28

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 2:00 pm	<u>Date Received</u> 11/14/2018
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Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	NEtFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:00		
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:00		
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:00		
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:00		
	Surrogate Recoveries	Result					Acceptance Range			
	Surrogate: 13C-PFHxA	%					70-130			
	Surrogate: 13C-PFDA	%					70-130			
	Surrogate: d5-NEtFOSAA	%					70-130			

Sample Information

Client Sample ID: SB-68A

York Sample ID: 18K0528-29

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 2:17 pm	<u>Date Received</u> 11/14/2018
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Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:46	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:46	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:46	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:46	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:46	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:46	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:46	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:46	LLJ



Sample Information

Client Sample ID: SB-68A

York Sample ID: 18K0528-29

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 2:17 pm

11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:46	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	51	100	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:46	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:46	LLJ
67-64-1	Acetone	ND		ug/kg dry	5.1	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:46	LLJ
71-43-2	Benzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:46	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:46	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:46	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:46	LLJ
156-59-2	cis-1,2-Dichloroethylene	93		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:46	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:46	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:46	LLJ
75-09-2	Methylene chloride	7.1	J	ug/kg dry	5.1	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:46	LLJ
91-20-3	Naphthalene	ND		ug/kg dry	2.6	10	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:46	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:46	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:46	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 09:12	11/16/2018 16:46	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.1	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 09:12	11/16/2018 16:46	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:46	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:46	LLJ
127-18-4	Tetrachloroethylene	1200		ug/kg dry	260	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/17/2018 11:25	11/17/2018 15:45	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:46	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:46	LLJ
79-01-6	Trichloroethylene	23		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:46	LLJ



Sample Information

Client Sample ID: SB-68A

York Sample ID: 18K0528-29

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 2:17 pm

11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 16:46	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.7	15	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/16/2018 09:12	11/16/2018 16:46	LLJ
	Surrogate Recoveries	Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	105 %			77-125						
2037-26-5	Surrogate: SURR: Toluene-d8	110 %			85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	126 %			76-130						

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	326	650	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:25	OW
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	326	650	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:25	OW
83-32-9	Acenaphthene	ND		ug/kg dry	326	650	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:25	OW
208-96-8	Acenaphthylene	ND		ug/kg dry	326	650	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:25	OW
120-12-7	Anthracene	ND		ug/kg dry	326	650	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:25	OW
56-55-3	Benzo(a)anthracene	665		ug/kg dry	326	650	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:25	OW
50-32-8	Benzo(a)pyrene	784		ug/kg dry	326	650	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:25	OW
205-99-2	Benzo(b)fluoranthene	987		ug/kg dry	326	650	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:25	OW
191-24-2	Benzo(g,h,i)perylene	665		ug/kg dry	326	650	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:25	OW
207-08-9	Benzo(k)fluoranthene	805		ug/kg dry	326	650	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:25	OW
218-01-9	Chrysene	899		ug/kg dry	326	650	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:25	OW
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	326	650	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:25	OW
132-64-9	Dibenzofuran	ND		ug/kg dry	326	650	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:25	OW
206-44-0	Fluoranthene	1600		ug/kg dry	326	650	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:25	OW
86-73-7	Fluorene	ND		ug/kg dry	326	650	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:25	OW



Sample Information

Client Sample ID: SB-68A

York Sample ID: 18K0528-29

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 2:17 pm

11/14/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
118-74-1	Hexachlorobenzene	ND		ug/kg dry	326	650	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:25	OW
193-39-5	Indeno(1,2,3-cd)pyrene	691		ug/kg dry	326	650	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:25	OW
91-20-3	Naphthalene	ND		ug/kg dry	326	650	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:25	OW
87-86-5	Pentachlorophenol	ND		ug/kg dry	326	650	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:25	OW
85-01-8	Phenanthrene	369	J	ug/kg dry	326	650	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:25	OW
108-95-2	Phenol	ND		ug/kg dry	326	650	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:25	OW
129-00-0	Pyrene	1170		ug/kg dry	326	650	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:25	OW

Surrogate Recoveries

Result

Acceptance Range

367-12-4	Surrogate: SURR: 2-Fluorophenol	39.9 %	20-108
4165-62-2	Surrogate: SURR: Phenol-d5	37.5 %	23-114
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	43.8 %	22-108
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	42.6 %	21-113
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	38.7 %	19-110
1718-51-0	Surrogate: SURR: Terphenyl-d14	33.6 %	24-116

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:20	TJD
72-55-9	4,4'-DDE	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:20	TJD
50-29-3	4,4'-DDT	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:20	TJD
309-00-2	Aldrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:20	TJD
319-84-6	alpha-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:20	TJD
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/20/2018 07:28	11/22/2018 01:20	TJD
319-85-7	beta-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:20	TJD
319-86-8	delta-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:20	TJD
60-57-1	Dieldrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:20	TJD



Sample Information

Client Sample ID: SB-68A

York Sample ID: 18K0528-29

York Project (SDG) No.

Client Project ID

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37321-STX 27-10 49th Ave

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11/14/2018

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
959-98-8	Endosulfan I	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:20	TJD
33213-65-9	Endosulfan II	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/20/2018 07:28	11/22/2018 01:20	TJD
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:20	TJD
72-20-8	Endrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:20	TJD
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:20	TJD
76-44-8	Heptachlor	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:20	TJD
Surrogate Recoveries		Result			Acceptance Range					
2051-24-3	Surrogate: Decachlorobiphenyl	43.6 %			30-150					
877-09-8	Surrogate: Tetrachloro-m-xylene	41.5 %			30-150					

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 22:47	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 22:47	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 22:47	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 22:47	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 22:47	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 22:47	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 22:47	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0171	1	EPA 8082A Certifications:	11/20/2018 07:28	11/21/2018 22:47	TJD
Surrogate Recoveries		Result			Acceptance Range					
877-09-8	Surrogate: Tetrachloro-m-xylene	43.1 %			30-140					
2051-24-3	Surrogate: Decachlorobiphenyl	33.8 %			30-140					

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

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@



Sample Information

Client Sample ID: SB-68A

York Sample ID: 18K0528-29

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
18K0528	37321-STX 27-10 49th Ave	Soil	November 13, 2018 2:17 pm	11/14/2018
7429-90-5	Aluminum 2760	B mg/kg dry	5.14	1 EPA 6010D 11/15/2018 10:31 11/16/2018 14:24 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP
7440-36-0	Antimony ND	mg/kg dry	2.57	1 EPA 6010D 11/15/2018 10:31 11/16/2018 14:24 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP
7440-38-2	Arsenic 2.63	B mg/kg dry	1.54	1 EPA 6010D 11/15/2018 10:31 11/16/2018 14:24 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP
7440-39-3	Barium 115	mg/kg dry	2.57	1 EPA 6010D 11/15/2018 10:31 11/16/2018 14:24 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP
7440-41-7	Beryllium ND	mg/kg dry	0.051	1 EPA 6010D 11/15/2018 10:31 11/16/2018 14:24 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP
7440-43-9	Cadmium 0.677	mg/kg dry	0.309	1 EPA 6010D 11/15/2018 10:31 11/16/2018 14:24 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP
7440-70-2	Calcium 59400	mg/kg dry	5.14	1 EPA 6010D 11/15/2018 10:31 11/16/2018 14:24 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP
7440-47-3	Chromium 9.98	mg/kg dry	0.514	1 EPA 6010D 11/15/2018 10:31 11/16/2018 14:24 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP
7440-48-4	Cobalt 4.25	mg/kg dry	0.411	1 EPA 6010D 11/15/2018 10:31 11/16/2018 14:24 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP
7440-50-8	Copper 56.7	mg/kg dry	2.06	1 EPA 6010D 11/15/2018 10:31 11/16/2018 14:24 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP
7439-89-6	Iron 7880	mg/kg dry	25.7	1 EPA 6010D 11/15/2018 10:31 11/16/2018 14:24 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP
7439-92-1	Lead 179	mg/kg dry	0.514	1 EPA 6010D 11/15/2018 10:31 11/16/2018 14:24 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP
7439-95-4	Magnesium 28000	mg/kg dry	5.14	1 EPA 6010D 11/15/2018 10:31 11/16/2018 14:24 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP
7439-96-5	Manganese 107	mg/kg dry	0.514	1 EPA 6010D 11/15/2018 10:31 11/16/2018 14:24 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP
7440-02-0	Nickel 9.33	mg/kg dry	1.03	1 EPA 6010D 11/15/2018 10:31 11/16/2018 14:24 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP
7440-09-7	Potassium 504	mg/kg dry	5.14	1 EPA 6010D 11/15/2018 10:31 11/16/2018 14:24 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP
7782-49-2	Selenium 11.2	mg/kg dry	2.57	1 EPA 6010D 11/15/2018 10:31 11/16/2018 14:24 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP
7440-22-4	Silver ND	mg/kg dry	0.514	1 EPA 6010D 11/15/2018 10:31 11/16/2018 14:24 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP
7440-23-5	Sodium 343	mg/kg dry	51.4	1 EPA 6010D 11/15/2018 10:31 11/16/2018 14:24 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP
7440-28-0	Thallium ND	mg/kg dry	2.57	1 EPA 6010D 11/15/2018 10:31 11/16/2018 14:24 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP
7440-62-2	Vanadium 19.1	mg/kg dry	1.03	1 EPA 6010D 11/15/2018 10:31 11/16/2018 14:24 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP
7440-66-6	Zinc 253	B mg/kg dry	2.57	1 EPA 6010D 11/15/2018 10:31 11/16/2018 14:24 KML Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP

Mercury by 7473

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB-68A

York Sample ID: 18K0528-29

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 2:17 pm

11/14/2018

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.171		mg/kg dry	0.0309	1	EPA 7473	11/15/2018 09:41	11/15/2018 18:42	SY
							Certifications:	CTDOH,NJDEP,NELAC-NY10854,PADEP		

Total Solids

Log-in Notes:

Sample Notes:

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	97.2		%	0.100	1	SM 2540G	11/19/2018 12:54	11/19/2018 17:09	TAJ
							Certifications:	CTDOH		

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.514	1	EPA 7196A	11/21/2018 08:45	11/21/2018 16:35	MAC
							Certifications:	NJDEP,CTDOH,NELAC-NY10854,PADEP		

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	9.98		mg/kg	0.500	1	Calculation	11/30/2018 14:23	11/30/2018 14:34	PAM
							Certifications:			

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	0.751		mg/kg dry	0.514	1	EPA 9014/9010C	11/21/2018 07:28	11/21/2018 13:21	JTV
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:17		
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:17		
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:17		



Sample Information

Client Sample ID: SB-68A

York Sample ID: 18K0528-29

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 2:17 pm	<u>Date Received</u> 11/14/2018
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Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:17		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:17		
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:17		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:17		
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:17		
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:17		
	NMeFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:17		
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:17		
	NEtFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:17		
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:17		
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:17		
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:17		

Surrogate Recoveries

Result

Acceptance Range

Surrogate: 13C-PFHxA	%	70-130
Surrogate: 13C-PFDA	%	70-130
Surrogate: d5-NEtFOSAA	%	70-130

Sample Information

Client Sample ID: SB-68B

York Sample ID: 18K0528-30

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 2:20 pm	<u>Date Received</u> 11/14/2018
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Volatile Organics, NYSDEC Part 375 List

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
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@			



Sample Information

Client Sample ID: SB-68B

York Sample ID: 18K0528-30

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 2:20 pm

11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:19	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:19	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:19	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:19	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:19	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:19	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:19	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:19	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:19	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	55	110	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:19	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:19	LLJ
67-64-1	Acetone	ND		ug/kg dry	5.5	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:19	LLJ
71-43-2	Benzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:19	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:19	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:19	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:19	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:19	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:19	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:19	LLJ
75-09-2	Methylene chloride	ND		ug/kg dry	5.5	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:19	LLJ
91-20-3	Naphthalene	ND		ug/kg dry	2.8	11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:19	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:19	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:19	LLJ



Sample Information

Client Sample ID: SB-68B

York Sample ID: 18K0528-30

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 2:20 pm

11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
95-47-6	o-Xylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 09:12	11/16/2018 17:19	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.5	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 09:12	11/16/2018 17:19	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:19	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:19	LLJ
127-18-4	Tetrachloroethylene	160		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:19	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:19	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:19	LLJ
79-01-6	Trichloroethylene	4.1	J	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:19	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:19	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.3	17	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/16/2018 09:12	11/16/2018 17:19	LLJ
	Surrogate Recoveries	Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	100 %			77-125						
2037-26-5	Surrogate: SURR: Toluene-d8	114 %			85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	120 %			76-130						

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	46.1	91.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:57	OW
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	46.1	91.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:57	OW
83-32-9	Acenaphthene	ND		ug/kg dry	46.1	91.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:57	OW
208-96-8	Acenaphthylene	ND		ug/kg dry	46.1	91.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:57	OW
120-12-7	Anthracene	112		ug/kg dry	46.1	91.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:57	OW
56-55-3	Benzo(a)anthracene	973		ug/kg dry	46.1	91.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:57	OW
50-32-8	Benzo(a)pyrene	1080		ug/kg dry	46.1	91.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:57	OW



Sample Information

Client Sample ID: SB-68B

York Sample ID: 18K0528-30

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 2:20 pm

11/14/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
205-99-2	Benzo(b)fluoranthene	1370		ug/kg dry	46.1	91.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:57	OW
191-24-2	Benzo(g,h,i)perylene	891		ug/kg dry	46.1	91.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:57	OW
207-08-9	Benzo(k)fluoranthene	1080		ug/kg dry	46.1	91.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:57	OW
218-01-9	Chrysene	1290		ug/kg dry	46.1	91.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:57	OW
53-70-3	Dibenzo(a,h)anthracene	348		ug/kg dry	46.1	91.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:57	OW
132-64-9	Dibenzofuran	ND		ug/kg dry	46.1	91.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:57	OW
206-44-0	Fluoranthene	2430		ug/kg dry	46.1	91.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:57	OW
86-73-7	Fluorene	ND		ug/kg dry	46.1	91.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:57	OW
118-74-1	Hexachlorobenzene	ND		ug/kg dry	46.1	91.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:57	OW
193-39-5	Indeno(1,2,3-cd)pyrene	885		ug/kg dry	46.1	91.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:57	OW
91-20-3	Naphthalene	ND		ug/kg dry	46.1	91.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:57	OW
87-86-5	Pentachlorophenol	ND		ug/kg dry	46.1	91.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:57	OW
85-01-8	Phenanthrene	642		ug/kg dry	46.1	91.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:57	OW
108-95-2	Phenol	ND		ug/kg dry	46.1	91.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:57	OW
129-00-0	Pyrene	1670		ug/kg dry	46.1	91.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 18:57	OW

Surrogate Recoveries

Result

Acceptance Range

367-12-4	Surrogate: SURRE: 2-Fluorophenol	40.1 %	20-108
4165-62-2	Surrogate: SURRE: Phenol-d5	42.7 %	23-114
4165-60-0	Surrogate: SURRE: Nitrobenzene-d5	50.4 %	22-108
321-60-8	Surrogate: SURRE: 2-Fluorobiphenyl	48.0 %	21-113
118-79-6	Surrogate: SURRE: 2,4,6-Tribromophenol	55.4 %	19-110
1718-51-0	Surrogate: SURRE: Terphenyl-d14	54.8 %	24-116

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

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: SB-68B

York Sample ID: 18K0528-30

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 2:20 pm

11/14/2018

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:35	TJD
72-55-9	4,4'-DDE	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:35	TJD
50-29-3	4,4'-DDT	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:35	TJD
309-00-2	Aldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:35	TJD
319-84-6	alpha-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:35	TJD
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/20/2018 07:28	11/22/2018 01:35	TJD
319-85-7	beta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:35	TJD
319-86-8	delta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:35	TJD
60-57-1	Dieldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:35	TJD
959-98-8	Endosulfan I	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:35	TJD
33213-65-9	Endosulfan II	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/20/2018 07:28	11/22/2018 01:35	TJD
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:35	TJD
72-20-8	Endrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:35	TJD
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:35	TJD
76-44-8	Heptachlor	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:35	TJD
	Surrogate Recoveries	Result					Acceptance Range			
2051-24-3	Surrogate: Decachlorobiphenyl	61.2 %					30-150			
877-09-8	Surrogate: Tetrachloro-m-xylene	46.9 %					30-150			

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:00	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:00	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:00	TJD



Sample Information

Client Sample ID: SB-68B

York Sample ID: 18K0528-30

York Project (SDG) No.

Client Project ID

Matrix

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18K0528

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Soil

November 13, 2018 2:20 pm

11/14/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:00	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:00	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:00	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:00	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications:	11/20/2018 07:28	11/21/2018 23:00	TJD
Surrogate Recoveries		Result			Acceptance Range					
877-09-8	Surrogate: Tetrachloro-m-xylene	43.1 %			30-140					
2051-24-3	Surrogate: Decachlorobiphenyl	31.8 %			30-140					

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	6630	B	mg/kg dry	5.51	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:26	KML
7440-36-0	Antimony	ND		mg/kg dry	2.76	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:26	KML
7440-38-2	Arsenic	2.33	B	mg/kg dry	1.65	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:26	KML
7440-39-3	Barium	127		mg/kg dry	2.76	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:26	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.055	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:26	KML
7440-43-9	Cadmium	0.442		mg/kg dry	0.331	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:26	KML
7440-70-2	Calcium	49600		mg/kg dry	5.51	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:26	KML
7440-47-3	Chromium	14.3		mg/kg dry	0.551	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:26	KML
7440-48-4	Cobalt	7.74		mg/kg dry	0.441	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:26	KML
7440-50-8	Copper	39.6		mg/kg dry	2.20	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:26	KML
7439-89-6	Iron	14700		mg/kg dry	27.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:26	KML
7439-92-1	Lead	57.5		mg/kg dry	0.551	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:26	KML
7439-95-4	Magnesium	7950		mg/kg dry	5.51	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:26	KML



Sample Information

Client Sample ID: SB-68B

York Sample ID: 18K0528-30

York Project (SDG) No.

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Matrix

Collection Date/Time

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18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 2:20 pm

11/14/2018

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	153		mg/kg dry	0.551	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:26	KML
7440-02-0	Nickel	10.5		mg/kg dry	1.10	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:26	KML
7440-09-7	Potassium	3680		mg/kg dry	5.51	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:26	KML
7782-49-2	Selenium	ND		mg/kg dry	2.76	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:26	KML
7440-22-4	Silver	ND		mg/kg dry	0.551	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:26	KML
7440-23-5	Sodium	879		mg/kg dry	55.1	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:26	KML
7440-28-0	Thallium	ND		mg/kg dry	2.76	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:26	KML
7440-62-2	Vanadium	35.3		mg/kg dry	1.10	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:26	KML
7440-66-6	Zinc	79.4	B	mg/kg dry	2.76	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:26	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.0560		mg/kg dry	0.0331	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/15/2018 09:41	11/15/2018 18:51	SY

Total Solids

Log-in Notes:

Sample Notes:

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	90.7		%	0.100	1	SM 2540G Certifications: CTDOH	11/19/2018 12:54	11/19/2018 17:09	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.551	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/21/2018 08:45	11/21/2018 16:35	MAC

Chromium, Trivalent

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB-68B

York Sample ID: 18K0528-30

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 2:20 pm	<u>Date Received</u> 11/14/2018
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Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	14.4		mg/kg	0.500	1	Calculation	11/30/2018 14:23	11/30/2018 14:34	PAM

Certifications:

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.551	1	EPA 9014/9010C	11/21/2018 07:28	11/21/2018 13:21	JTV

Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:20		
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:20		
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:20		
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:20		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:20		
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:20		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:20		
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:20		
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:20		
	NMeFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:20		
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:20		
	NEtFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:20		
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:20		
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:20		
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:20		



Sample Information

Client Sample ID: SB-68B

York Sample ID: 18K0528-30

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 2:20 pm	<u>Date Received</u> 11/14/2018
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Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries		Result	Acceptance Range							
	Surrogate: 13C-PFHxA	%		70-130						
	Surrogate: 13C-PFDA	%		70-130						
	Surrogate: d5-NEtFOSAA	%		70-130						

Sample Information

Client Sample ID: SB-69A

York Sample ID: 18K0528-31

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 2:44 pm	<u>Date Received</u> 11/14/2018
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Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:51	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:51	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:51	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:51	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:51	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:51	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:51	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:51	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:51	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	50	100	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:51	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:51	LLJ
67-64-1	Acetone	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:51	LLJ



Sample Information

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Volatile Organics, NYSDEC Part 375 List

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
71-43-2	Benzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:51	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:51	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:51	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:51	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:51	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:51	LLJ
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,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:51	LLJ
75-09-2	Methylene chloride	6.9	J	ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:51	LLJ
91-20-3	Naphthalene	ND		ug/kg dry	2.5	10	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:51	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:51	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:51	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 09:12	11/16/2018 17:51	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 09:12	11/16/2018 17:51	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:51	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:51	LLJ
127-18-4	Tetrachloroethylene	8.1		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:51	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:51	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:51	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:51	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 17:51	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.5	15	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/16/2018 09:12	11/16/2018 17:51	LLJ

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	102 %	77-125
2037-26-5	Surrogate: SURR: Toluene-d8	107 %	85-120
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	114 %	76-130



Sample Information

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37321-STX 27-10 49th Ave

Soil

November 13, 2018 2:44 pm

11/14/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	210	419	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 19:27	OW
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	210	419	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 19:27	OW
83-32-9	Acenaphthene	ND		ug/kg dry	210	419	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 19:27	OW
208-96-8	Acenaphthylene	ND		ug/kg dry	210	419	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 19:27	OW
120-12-7	Anthracene	ND		ug/kg dry	210	419	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 19:27	OW
56-55-3	Benzo(a)anthracene	969		ug/kg dry	210	419	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 19:27	OW
50-32-8	Benzo(a)pyrene	1400		ug/kg dry	210	419	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 19:27	OW
205-99-2	Benzo(b)fluoranthene	1730		ug/kg dry	210	419	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 19:27	OW
191-24-2	Benzo(g,h,i)perylene	1220		ug/kg dry	210	419	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 19:27	OW
207-08-9	Benzo(k)fluoranthene	1370		ug/kg dry	210	419	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 19:27	OW
218-01-9	Chrysene	1440		ug/kg dry	210	419	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 19:27	OW
53-70-3	Dibenzo(a,h)anthracene	466		ug/kg dry	210	419	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 19:27	OW
132-64-9	Dibenzofuran	ND		ug/kg dry	210	419	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 19:27	OW
206-44-0	Fluoranthene	2160		ug/kg dry	210	419	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 19:27	OW
86-73-7	Fluorene	ND		ug/kg dry	210	419	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 19:27	OW
118-74-1	Hexachlorobenzene	ND		ug/kg dry	210	419	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 19:27	OW
193-39-5	Indeno(1,2,3-cd)pyrene	1180		ug/kg dry	210	419	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 19:27	OW
91-20-3	Naphthalene	ND		ug/kg dry	210	419	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 19:27	OW
87-86-5	Pentachlorophenol	ND		ug/kg dry	210	419	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 19:27	OW
85-01-8	Phenanthrene	429		ug/kg dry	210	419	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 19:27	OW
108-95-2	Phenol	ND		ug/kg dry	210	419	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 19:27	OW
129-00-0	Pyrene	1720		ug/kg dry	210	419	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 19:27	OW



Sample Information

Client Sample ID: SB-69A

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Soil

November 13, 2018 2:44 pm

11/14/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries		Result	Acceptance Range								
367-12-4	Surrogate: SURR: 2-Fluorophenol	36.6 %			20-108						
4165-62-2	Surrogate: SURR: Phenol-d5	33.4 %			23-114						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	51.6 %			22-108						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	38.0 %			21-113						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	46.4 %			19-110						
1718-51-0	Surrogate: SURR: Terphenyl-d14	49.6 %			24-116						

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst	
72-54-8	4,4'-DDD	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:50	TJD	
72-55-9	4,4'-DDE	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:50	TJD	
50-29-3	4,4'-DDT	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:50	TJD	
309-00-2	Aldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:50	TJD	
319-84-6	alpha-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:50	TJD	
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/20/2018 07:28	11/22/2018 01:50	TJD	
319-85-7	beta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:50	TJD	
319-86-8	delta-BHC	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:50	TJD	
60-57-1	Dieldrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:50	TJD	
959-98-8	Endosulfan I	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:50	TJD	
33213-65-9	Endosulfan II	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/20/2018 07:28	11/22/2018 01:50	TJD	
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:50	TJD	
72-20-8	Endrin	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:50	TJD	
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:50	TJD	
76-44-8	Heptachlor	ND		ug/kg dry	1.65	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 01:50	TJD	
Surrogate Recoveries		Result	Acceptance Range								
2051-24-3	Surrogate: Decachlorobiphenyl	64.6 %			30-150						



Sample Information

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Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
877-09-8	Surrogate: Tetrachloro-m-xylene	55.9 %			30-150					

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0168	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:14	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0168	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:14	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0168	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:14	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0168	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:14	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0168	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:14	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0168	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:14	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0168	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:14	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0168	1	EPA 8082A Certifications:	11/20/2018 07:28	11/21/2018 23:14	TJD

Surrogate Recoveries

Result

Acceptance Range

877-09-8	Surrogate: Tetrachloro-m-xylene	55.9 %	30-140
2051-24-3	Surrogate: Decachlorobiphenyl	39.8 %	30-140

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	8220	B	mg/kg dry	5.03	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:33	KML
7440-36-0	Antimony	ND		mg/kg dry	2.51	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:33	KML
7440-38-2	Arsenic	ND		mg/kg dry	1.51	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:33	KML
7440-39-3	Barium	13.0		mg/kg dry	2.51	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:33	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.050	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:33	KML
7440-43-9	Cadmium	0.304		mg/kg dry	0.302	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:33	KML



Sample Information

Client Sample ID: SB-69A

York Sample ID: 18K0528-31

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 2:44 pm

11/14/2018

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	Calcium	50300		mg/kg dry	5.03	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:33	KML
7440-47-3	Chromium	2.19		mg/kg dry	0.503	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:33	KML
7440-48-4	Cobalt	10.2		mg/kg dry	0.402	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:33	KML
7440-50-8	Copper	59.6		mg/kg dry	2.01	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:33	KML
7439-89-6	Iron	19300		mg/kg dry	25.1	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:33	KML
7439-92-1	Lead	8.90		mg/kg dry	0.503	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:33	KML
7439-95-4	Magnesium	27300		mg/kg dry	5.03	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:33	KML
7439-96-5	Manganese	205		mg/kg dry	0.503	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:33	KML
7440-02-0	Nickel	6.64		mg/kg dry	1.01	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:33	KML
7440-09-7	Potassium	355		mg/kg dry	5.03	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:33	KML
7782-49-2	Selenium	ND		mg/kg dry	2.51	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:33	KML
7440-22-4	Silver	ND		mg/kg dry	0.503	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:33	KML
7440-23-5	Sodium	1110		mg/kg dry	50.3	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:33	KML
7440-28-0	Thallium	ND		mg/kg dry	2.51	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:33	KML
7440-62-2	Vanadium	54.8		mg/kg dry	1.01	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:33	KML
7440-66-6	Zinc	13.5	B	mg/kg dry	2.51	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:33	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0302	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/15/2018 09:41	11/15/2018 19:00	SY

Total Solids

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB-69A

York Sample ID: 18K0528-31

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 2:44 pm

11/14/2018

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	99.4		%	0.100	1	SM 2540G Certifications: CTDOH	11/19/2018 12:54	11/19/2018 17:09	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.503	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/21/2018 08:45	11/21/2018 16:35	MAC

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	2.19		mg/kg	0.500	1	Calculation Certifications:	11/30/2018 14:23	11/30/2018 14:34	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	25.1		mg/kg dry	0.503	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/26/2018 08:26	11/26/2018 14:30	JTV

Analyzed by: Con-Test Analytical Laboratory

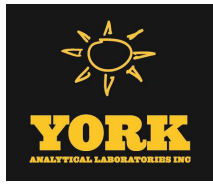
PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:44		
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:44		
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:44		
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:44		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:44		
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:44		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:44		



Sample Information

Client Sample ID: SB-69A

York Sample ID: 18K0528-31

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 2:44 pm	<u>Date Received</u> 11/14/2018
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Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:44		
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:44		
	NMeFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:44		
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:44		
	NEtFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:44		
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:44		
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:44		
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:44		
Surrogate Recoveries		Result	Acceptance Range							
	Surrogate: 13C-PFHxA	%	70-130							
	Surrogate: 13C-PFDA	%	70-130							
	Surrogate: d5-NEtFOSAA	%	70-130							

Sample Information

Client Sample ID: SB-69B

York Sample ID: 18K0528-32

<u>York Project (SDG) No.</u> 18K0528	<u>Client Project ID</u> 37321-STX 27-10 49th Ave	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 13, 2018 2:50 pm	<u>Date Received</u> 11/14/2018
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Volatile Organics, NYSDEC Part 375 List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 18:23	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 18:23	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 18:23	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 18:23	LLJ



Sample Information

Client Sample ID: SB-69B

York Sample ID: 18K0528-32

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 2:50 pm

11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 18:23	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 18:23	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 18:23	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 18:23	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 18:23	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	54	110	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 18:23	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 18:23	LLJ
67-64-1	Acetone	ND		ug/kg dry	5.4	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 18:23	LLJ
71-43-2	Benzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 18:23	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 18:23	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 18:23	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 18:23	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 18:23	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 18:23	LLJ
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,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 18:23	LLJ
75-09-2	Methylene chloride	9.6	J	ug/kg dry	5.4	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 18:23	LLJ
91-20-3	Naphthalene	ND		ug/kg dry	2.7	11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 18:23	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 18:23	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 18:23	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 09:12	11/16/2018 18:23	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.4	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	11/16/2018 09:12	11/16/2018 18:23	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 18:23	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 18:23	LLJ



Sample Information

Client Sample ID: SB-69B

York Sample ID: 18K0528-32

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 2:50 pm

11/14/2018

Volatile Organics, NYSDEC Part 375 List

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
127-18-4	Tetrachloroethylene	11		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 18:23	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 18:23	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 18:23	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 18:23	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	11/16/2018 09:12	11/16/2018 18:23	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.1	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	11/16/2018 09:12	11/16/2018 18:23	LLJ
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	101 %			77-125						
2037-26-5	Surrogate: SURR: Toluene-d8	108 %			85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	111 %			76-130						

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 19:59	OW
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 19:59	OW
83-32-9	Acenaphthene	73.0	J	ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 19:59	OW
208-96-8	Acenaphthylene	561		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 19:59	OW
120-12-7	Anthracene	478		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 19:59	OW
56-55-3	Benzo(a)anthracene	1470		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 19:59	OW
50-32-8	Benzo(a)pyrene	2160		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 19:59	OW
205-99-2	Benzo(b)fluoranthene	2350		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 19:59	OW
191-24-2	Benzo(g,h,i)perylene	1860		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 19:59	OW
207-08-9	Benzo(k)fluoranthene	2080		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 19:59	OW
218-01-9	Chrysene	1910		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 19:59	OW



Sample Information

Client Sample ID: SB-69B

York Sample ID: 18K0528-32

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 2:50 pm

11/14/2018

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53-70-3	Dibenzo(a,h)anthracene	691		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 19:59	OW
132-64-9	Dibenzofuran	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 19:59	OW
206-44-0	Fluoranthene	2960		ug/kg dry	113	226	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/25/2018 11:46	OW
86-73-7	Fluorene	99.7		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 19:59	OW
118-74-1	Hexachlorobenzene	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 19:59	OW
193-39-5	Indeno(1,2,3-cd)pyrene	1720		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 19:59	OW
91-20-3	Naphthalene	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 19:59	OW
87-86-5	Pentachlorophenol	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 19:59	OW
85-01-8	Phenanthrene	1160		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 19:59	OW
108-95-2	Phenol	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 19:59	OW
129-00-0	Pyrene	2440		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:19	11/21/2018 19:59	OW
	Surrogate Recoveries	Result			Acceptance Range						
367-12-4	Surrogate: SURR: 2-Fluorophenol	67.5 %			20-108						
4165-62-2	Surrogate: SURR: Phenol-d5	65.6 %			23-114						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	76.9 %			22-108						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	86.3 %			21-113						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	98.8 %			19-110						
1718-51-0	Surrogate: SURR: Terphenyl-d14	91.5 %			24-116						

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 02:04	TJD
72-55-9	4,4'-DDE	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 02:04	TJD
50-29-3	4,4'-DDT	26.0		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 02:04	TJD
309-00-2	Aldrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 02:04	TJD



Sample Information

Client Sample ID: SB-69B

York Sample ID: 18K0528-32

York Project (SDG) No.

Client Project ID

Matrix

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18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 2:50 pm

11/14/2018

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-84-6	alpha-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 02:04	TJD
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	11/20/2018 07:28	11/22/2018 02:04	TJD
319-85-7	beta-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 02:04	TJD
319-86-8	delta-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 02:04	TJD
60-57-1	Dieldrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 02:04	TJD
959-98-8	Endosulfan I	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 02:04	TJD
33213-65-9	Endosulfan II	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	11/20/2018 07:28	11/22/2018 02:04	TJD
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 02:04	TJD
72-20-8	Endrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 02:04	TJD
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 02:04	TJD
76-44-8	Heptachlor	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2018 07:28	11/22/2018 02:04	TJD
	Surrogate Recoveries	Result					Acceptance Range			
2051-24-3	Surrogate: Decachlorobiphenyl	66.2 %					30-150			
877-09-8	Surrogate: Tetrachloro-m-xylene	64.9 %					30-150			

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0180	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:27	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0180	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:27	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0180	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:27	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0180	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:27	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0180	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:27	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0180	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:27	TJD
11096-82-5	Aroclor 1260	0.0741		mg/kg dry	0.0180	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2018 07:28	11/21/2018 23:27	TJD



Sample Information

Client Sample ID: SB-69B

York Sample ID: 18K0528-32

York Project (SDG) No.

Client Project ID

Matrix

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18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 2:50 pm

11/14/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1336-36-3	* Total PCBs	0.0741		mg/kg dry	0.0180	1	EPA 8082A	11/20/2018 07:28	11/21/2018 23:27	TJD
	Surrogate Recoveries	Result								
877-09-8	Surrogate: Tetrachloro-m-xylene	53.5 %								
2051-24-3	Surrogate: Decachlorobiphenyl	40.8 %								

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	8020	B	mg/kg dry	5.42	1	EPA 6010D	11/15/2018 10:31	11/16/2018 14:35	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-36-0	Antimony	ND		mg/kg dry	2.71	1	EPA 6010D	11/15/2018 10:31	11/16/2018 14:35	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-38-2	Arsenic	8.33	B	mg/kg dry	1.63	1	EPA 6010D	11/15/2018 10:31	11/16/2018 14:35	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-39-3	Barium	425		mg/kg dry	2.71	1	EPA 6010D	11/15/2018 10:31	11/16/2018 14:35	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-41-7	Beryllium	ND		mg/kg dry	0.054	1	EPA 6010D	11/15/2018 10:31	11/16/2018 14:35	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	Cadmium	1.58		mg/kg dry	0.325	1	EPA 6010D	11/15/2018 10:31	11/16/2018 14:35	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-70-2	Calcium	13300		mg/kg dry	5.42	1	EPA 6010D	11/15/2018 10:31	11/16/2018 14:35	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	Chromium	43.1		mg/kg dry	0.542	1	EPA 6010D	11/15/2018 10:31	11/16/2018 14:35	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-48-4	Cobalt	14.6		mg/kg dry	0.433	1	EPA 6010D	11/15/2018 10:31	11/16/2018 14:35	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	Copper	144		mg/kg dry	2.17	1	EPA 6010D	11/15/2018 10:31	11/16/2018 14:35	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	Iron	26000		mg/kg dry	27.1	1	EPA 6010D	11/15/2018 10:31	11/16/2018 14:35	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	Lead	3420		mg/kg dry	0.542	1	EPA 6010D	11/15/2018 10:31	11/16/2018 14:35	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	Magnesium	4460		mg/kg dry	5.42	1	EPA 6010D	11/15/2018 10:31	11/16/2018 14:35	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	Manganese	263		mg/kg dry	0.542	1	EPA 6010D	11/15/2018 10:31	11/16/2018 14:35	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	Nickel	39.0		mg/kg dry	1.08	1	EPA 6010D	11/15/2018 10:31	11/16/2018 14:35	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	Potassium	3430		mg/kg dry	5.42	1	EPA 6010D	11/15/2018 10:31	11/16/2018 14:35	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			



Sample Information

Client Sample ID: SB-69B

York Sample ID: 18K0528-32

York Project (SDG) No.

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18K0528

37321-STX 27-10 49th Ave

Soil

November 13, 2018 2:50 pm

11/14/2018

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7782-49-2	Selenium	ND		mg/kg dry	2.71	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:35	KML
7440-22-4	Silver	ND		mg/kg dry	0.542	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:35	KML
7440-23-5	Sodium	350		mg/kg dry	54.2	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:35	KML
7440-28-0	Thallium	ND		mg/kg dry	2.71	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:35	KML
7440-62-2	Vanadium	36.6		mg/kg dry	1.08	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:35	KML
7440-66-6	Zinc	860	B	mg/kg dry	2.71	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/15/2018 10:31	11/16/2018 14:35	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.572		mg/kg dry	0.0325	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	11/15/2018 09:41	11/15/2018 19:08	SY

Total Solids

Log-in Notes:

Sample Notes:

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	92.3		%	0.100	1	SM 2540G Certifications: CTDOH	11/19/2018 12:54	11/19/2018 17:09	TAJ

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.542	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	11/21/2018 08:45	11/21/2018 16:35	MAC

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	43.1		mg/kg	0.500	1	Calculation Certifications:	11/30/2018 14:23	11/30/2018 14:34	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB-69B

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11/14/2018

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	0.726		mg/kg dry	0.542	1	EPA 9014/9010C	11/26/2018 08:26	11/26/2018 14:30	JTV
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

Analyzed by: Con-Test Analytical Laboratory

PFAS in Soil by EPA 537m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Perfluoropentanoic acid (PFPeA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:50		
375-73-5	Perfluorobutanesulfonic acid (PFBS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:50		
307-24-4	Perfluorohexanoic acid (PFHxA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:50		
375-85-9	Perfluoroheptanoic acid (PFHpA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:50		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:50		
335-67-1	Perfluorooctanoic acid (PFOA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:50		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:50		
375-95-1	Perfluorononanoic acid (PFNA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:50		
335-76-2	Perfluorodecanoic acid (PFDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:50		
	NMeFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:50		
2058-94-8	Perfluoroundecanoic acid (PFUnA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:50		
	NEtFOSAA	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:50		
307-55-1	Perfluorododecanoic acid (PFDoA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:50		
72629-94-8	Perfluorotridecanoic acid (PFTriDA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:50		
376-06-7	Perfluorotetradecanoic acid (PFTA)	See attached		ug/kg	See attach	1	See attached Certifications:	11/13/2018 14:50		

Surrogate Recoveries

Result

Acceptance Range

Surrogate: 13C-PFHxA

%

70-130

Surrogate: 13C-PFDA

%

70-130

Surrogate: d5-NEtFOSAA

%

70-130



Analytical Batch Summary

Batch ID: BK80835 **Preparation Method:** EPA 7473 soil **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
18K0528-01	SB-56A	11/15/18
18K0528-02	SB-56B	11/15/18
18K0528-03	SB-56C	11/15/18
18K0528-04	SB-57A	11/15/18
18K0528-05	SB-57B	11/15/18
18K0528-06	SB-57C	11/15/18
18K0528-07	SB-58A	11/15/18
18K0528-08	SB-58B	11/15/18
18K0528-09	SB-58C	11/15/18
18K0528-10	SB-59A	11/15/18
18K0528-11	SB-59B	11/15/18
BK80835-BLK1	Blank	11/15/18
BK80835-DUP1	Duplicate	11/15/18
BK80835-MS1	Matrix Spike	11/15/18
BK80835-SRM1	Reference	11/15/18

Batch ID: BK80836 **Preparation Method:** EPA 7473 soil **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
18K0528-12	SB-59C	11/15/18
18K0528-13	SB-60A	11/15/18
18K0528-14	SB-60B	11/15/18
18K0528-15	SB-60C	11/15/18
18K0528-16	SB-61A	11/15/18
18K0528-17	SB-61B	11/15/18
18K0528-18	SB-61C	11/15/18
18K0528-21	SB-64A	11/15/18
18K0528-22	SB-64B	11/15/18
18K0528-23	SB-65A	11/15/18
18K0528-24	SB-65B	11/15/18
18K0528-25	SB-66A	11/15/18
18K0528-26	SB-66B	11/15/18
18K0528-27	SB-67A	11/15/18
18K0528-28	SB-67B	11/15/18
18K0528-29	SB-68A	11/15/18
18K0528-30	SB-68B	11/15/18
18K0528-31	SB-69A	11/15/18
18K0528-32	SB-69B	11/15/18
BK80836-BLK1	Blank	11/15/18
BK80836-DUP1	Duplicate	11/15/18
BK80836-MS1	Matrix Spike	11/15/18
BK80836-SRM1	Reference	11/15/18

Batch ID: BK80842 **Preparation Method:** EPA 3050B **Prepared By:** SY



YORK Sample ID	Client Sample ID	Preparation Date
18K0528-01	SB-56A	11/15/18
18K0528-02	SB-56B	11/15/18
18K0528-03	SB-56C	11/15/18
18K0528-04	SB-57A	11/15/18
18K0528-05	SB-57B	11/15/18
18K0528-06	SB-57C	11/15/18
18K0528-07	SB-58A	11/15/18
18K0528-08	SB-58B	11/15/18
18K0528-09	SB-58C	11/15/18
18K0528-10	SB-59A	11/15/18
18K0528-11	SB-59B	11/15/18
18K0528-12	SB-59C	11/15/18
18K0528-13	SB-60A	11/15/18
18K0528-14	SB-60B	11/15/18
18K0528-15	SB-60C	11/15/18
18K0528-16	SB-61A	11/15/18
18K0528-17	SB-61B	11/15/18
18K0528-18	SB-61C	11/15/18
18K0528-21	SB-64A	11/15/18
18K0528-22	SB-64B	11/15/18
BK80842-BLK1	Blank	11/15/18
BK80842-DUP1	Duplicate	11/15/18
BK80842-MS1	Matrix Spike	11/15/18
BK80842-SRM1	Reference	11/15/18

Batch ID: BK80843 **Preparation Method:** EPA 3050B **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
18K0528-23	SB-65A	11/15/18
18K0528-24	SB-65B	11/15/18
18K0528-25	SB-66A	11/15/18
18K0528-26	SB-66B	11/15/18
18K0528-27	SB-67A	11/15/18
18K0528-28	SB-67B	11/15/18
18K0528-29	SB-68A	11/15/18
18K0528-30	SB-68B	11/15/18
18K0528-31	SB-69A	11/15/18
18K0528-32	SB-69B	11/15/18
BK80843-BLK1	Blank	11/15/18
BK80843-SRM1	Reference	11/15/18

Batch ID: BK80853 **Preparation Method:** EPA 5035A **Prepared By:** TMP

YORK Sample ID	Client Sample ID	Preparation Date
18K0528-20	SB-63	11/16/18
18K0528-21	SB-64A	11/16/18
18K0528-22	SB-64B	11/16/18
18K0528-23	SB-65A	11/16/18
18K0528-24	SB-65B	11/16/18
18K0528-25	SB-66A	11/16/18



18K0528-26	SB-66B	11/16/18
18K0528-27	SB-67A	11/16/18
18K0528-28	SB-67B	11/16/18
18K0528-29	SB-68A	11/16/18
18K0528-30	SB-68B	11/16/18
18K0528-31	SB-69A	11/16/18
18K0528-32	SB-69B	11/16/18
BK80853-BLK1	Blank	11/16/18
BK80853-BS1	LCS	11/16/18
BK80853-BSD1	LCS Dup	11/16/18

Batch ID: BK80854 **Preparation Method:** EPA 5035A **Prepared By:** TMP

YORK Sample ID	Client Sample ID	Preparation Date
18K0528-01	SB-56A	11/16/18
BK80854-BLK1	Blank	11/16/18
BK80854-BS1	LCS	11/16/18
BK80854-BSD1	LCS Dup	11/16/18

Batch ID: BK80937 **Preparation Method:** EPA 5035A **Prepared By:** TMP

YORK Sample ID	Client Sample ID	Preparation Date
18K0528-02	SB-56B	11/16/18
18K0528-03	SB-56C	11/16/18
18K0528-04	SB-57A	11/16/18
18K0528-05	SB-57B	11/16/18
18K0528-06	SB-57C	11/16/18
18K0528-07	SB-58A	11/16/18
18K0528-08	SB-58B	11/16/18
18K0528-09	SB-58C	11/16/18
18K0528-10	SB-59A	11/16/18
18K0528-11	SB-59B	11/16/18
BK80937-BLK1	Blank	11/16/18
BK80937-BS1	LCS	11/16/18
BK80937-BSD1	LCS Dup	11/16/18

Batch ID: BK80972 **Preparation Method:** EPA 5035A **Prepared By:** LDS

YORK Sample ID	Client Sample ID	Preparation Date
18K0528-20RE1	SB-63	11/17/18
18K0528-29RE1	SB-68A	11/17/18
BK80972-BLK1	Blank	11/17/18
BK80972-BS1	LCS	11/17/18
BK80972-BSD1	LCS Dup	11/17/18

Batch ID: BK80977 **Preparation Method:** EPA 5035A **Prepared By:** LDS

YORK Sample ID	Client Sample ID	Preparation Date
18K0528-12	SB-59C	11/17/18



18K0528-13	SB-60A	11/17/18
18K0528-14	SB-60B	11/17/18
18K0528-15	SB-60C	11/17/18
18K0528-17	SB-61B	11/17/18
18K0528-18	SB-61C	11/17/18
18K0528-19	SB-62	11/17/18
BK80977-BLK1	Blank	11/17/18
BK80977-BS1	LCS	11/17/18
BK80977-BSD1	LCS Dup	11/17/18

Batch ID: BK80982 **Preparation Method:** EPA 3550C **Prepared By:** AB

YORK Sample ID	Client Sample ID	Preparation Date
18K0528-01	SB-56A	11/19/18
18K0528-01	SB-56A	11/19/18
18K0528-02	SB-56B	11/19/18
18K0528-02	SB-56B	11/19/18
18K0528-03	SB-56C	11/19/18
18K0528-03	SB-56C	11/19/18
18K0528-04	SB-57A	11/19/18
18K0528-04	SB-57A	11/19/18
18K0528-05	SB-57B	11/19/18
18K0528-05	SB-57B	11/19/18
18K0528-06	SB-57C	11/19/18
18K0528-06	SB-57C	11/19/18
18K0528-07	SB-58A	11/19/18
18K0528-07	SB-58A	11/19/18
18K0528-08	SB-58B	11/19/18
18K0528-08	SB-58B	11/19/18
18K0528-09	SB-58C	11/19/18
18K0528-09	SB-58C	11/19/18
18K0528-10	SB-59A	11/19/18
18K0528-10	SB-59A	11/19/18
18K0528-11	SB-59B	11/19/18
18K0528-11	SB-59B	11/19/18
18K0528-12	SB-59C	11/19/18
18K0528-12	SB-59C	11/19/18
18K0528-13	SB-60A	11/19/18
18K0528-13	SB-60A	11/19/18
18K0528-14	SB-60B	11/19/18
18K0528-14	SB-60B	11/19/18
18K0528-15	SB-60C	11/19/18
18K0528-15	SB-60C	11/19/18
18K0528-16	SB-61A	11/19/18
18K0528-16	SB-61A	11/19/18
18K0528-17	SB-61B	11/19/18
18K0528-17	SB-61B	11/19/18
BK80982-BLK1	Blank	11/19/18
BK80982-BS1	LCS	11/19/18
BK80982-MS1	Matrix Spike	11/19/18
BK80982-MSD1	Matrix Spike Dup	11/19/18



Batch ID: BK80994

Preparation Method: EPA SW846-3060

Prepared By: MAC

YORK Sample ID	Client Sample ID	Preparation Date
18K0528-01	SB-56A	11/19/18
18K0528-02	SB-56B	11/19/18
18K0528-03	SB-56C	11/19/18
18K0528-04	SB-57A	11/19/18
BK80994-BLK1	Blank	11/19/18
BK80994-DUP1	Duplicate	11/19/18
BK80994-MS1	Matrix Spike	11/19/18
BK80994-SRM1	Reference	11/19/18

Batch ID: BK81020

Preparation Method: % Solids Prep

Prepared By: TAJ

YORK Sample ID	Client Sample ID	Preparation Date
18K0528-01	SB-56A	11/16/18
18K0528-02	SB-56B	11/19/18
18K0528-03	SB-56C	11/19/18
18K0528-04	SB-57A	11/19/18
18K0528-05	SB-57B	11/19/18
18K0528-06	SB-57C	11/19/18
18K0528-07	SB-58A	11/19/18
18K0528-08	SB-58B	11/19/18
18K0528-09	SB-58C	11/19/18
18K0528-10	SB-59A	11/19/18
18K0528-11	SB-59B	11/19/18
18K0528-12	SB-59C	11/19/18
18K0528-13	SB-60A	11/19/18
18K0528-14	SB-60B	11/19/18
18K0528-15	SB-60C	11/19/18
18K0528-16	SB-61A	11/19/18
18K0528-17	SB-61B	11/19/18
18K0528-18	SB-61C	11/19/18
18K0528-19	SB-62	11/19/18
18K0528-20	SB-63	11/19/18
BK81020-DUP1	Duplicate	11/19/18

Batch ID: BK81021

Preparation Method: % Solids Prep

Prepared By: TAJ

YORK Sample ID	Client Sample ID	Preparation Date
18K0528-21	SB-64A	11/19/18
18K0528-22	SB-64B	11/19/18
18K0528-23	SB-65A	11/19/18
18K0528-24	SB-65B	11/19/18
18K0528-25	SB-66A	11/19/18
18K0528-26	SB-66B	11/19/18
18K0528-27	SB-67A	11/19/18
18K0528-28	SB-67B	11/19/18
18K0528-29	SB-68A	11/19/18
18K0528-30	SB-68B	11/19/18
18K0528-31	SB-69A	11/19/18



18K0528-32

SB-69B

11/19/18

Batch ID: BK81022

Preparation Method: EPA 3550C

Prepared By: SGM

YORK Sample ID	Client Sample ID	Preparation Date
18K0528-01	SB-56A	11/19/18
18K0528-02	SB-56B	11/19/18
18K0528-03	SB-56C	11/19/18
18K0528-04	SB-57A	11/19/18
BK81022-BLK1	Blank	11/19/18
BK81022-BS1	LCS	11/19/18

Batch ID: BK81041

Preparation Method: EPA 5035A

Prepared By: TMP

YORK Sample ID	Client Sample ID	Preparation Date
18K0528-02RE1	SB-56B	11/19/18
18K0528-06RE1	SB-57C	11/19/18
18K0528-08RE1	SB-58B	11/19/18
BK81041-BLK1	Blank	11/19/18
BK81041-BS1	LCS	11/19/18
BK81041-BSD1	LCS Dup	11/19/18

Batch ID: BK81058

Preparation Method: EPA 3550C

Prepared By: ZRM

YORK Sample ID	Client Sample ID	Preparation Date
18K0528-17	SB-61B	11/20/18
18K0528-17RE1	SB-61B	11/20/18
18K0528-18	SB-61C	11/20/18
18K0528-18RE1	SB-61C	11/20/18
18K0528-21	SB-64A	11/20/18
18K0528-22	SB-64B	11/20/18
18K0528-22RE1	SB-64B	11/20/18
18K0528-23	SB-65A	11/20/18
18K0528-23RE1	SB-65A	11/20/18
18K0528-23RE2	SB-65A	11/20/18
18K0528-24	SB-65B	11/20/18
18K0528-25	SB-66A	11/20/18
18K0528-26	SB-66B	11/20/18
18K0528-26RE1	SB-66B	11/20/18
18K0528-26RE2	SB-66B	11/20/18
18K0528-27	SB-67A	11/20/18
18K0528-28	SB-67B	11/20/18
18K0528-29	SB-68A	11/20/18
18K0528-30	SB-68B	11/20/18
18K0528-31	SB-69A	11/20/18
18K0528-32	SB-69B	11/20/18
18K0528-32RE1	SB-69B	11/20/18
BK81058-BLK1	Blank	11/20/18
BK81058-BS1	LCS	11/20/18



Batch ID: BK81060

Preparation Method: EPA 3550C

Prepared By: AB

YORK Sample ID	Client Sample ID	Preparation Date
18K0528-18	SB-61C	11/20/18
18K0528-18	SB-61C	11/20/18
18K0528-21	SB-64A	11/20/18
18K0528-21	SB-64A	11/20/18
18K0528-22	SB-64B	11/20/18
18K0528-22	SB-64B	11/20/18
18K0528-23	SB-65A	11/20/18
18K0528-23	SB-65A	11/20/18
18K0528-24	SB-65B	11/20/18
18K0528-24	SB-65B	11/20/18
18K0528-25	SB-66A	11/20/18
18K0528-25	SB-66A	11/20/18
18K0528-26	SB-66B	11/20/18
18K0528-26	SB-66B	11/20/18
18K0528-27	SB-67A	11/20/18
18K0528-27	SB-67A	11/20/18
18K0528-28	SB-67B	11/20/18
18K0528-28	SB-67B	11/20/18
18K0528-29	SB-68A	11/20/18
18K0528-29	SB-68A	11/20/18
18K0528-30	SB-68B	11/20/18
18K0528-30	SB-68B	11/20/18
18K0528-31	SB-69A	11/20/18
18K0528-31	SB-69A	11/20/18
18K0528-32	SB-69B	11/20/18
18K0528-32	SB-69B	11/20/18
BK81060-BLK1	Blank	11/20/18
BK81060-BLK1	Blank	11/20/18
BK81060-BS1	LCS	11/20/18
BK81060-BS2	LCS	11/20/18

Batch ID: BK81066

Preparation Method: Analysis Preparation Soil

Prepared By: JTV

YORK Sample ID	Client Sample ID	Preparation Date
18K0528-01	SB-56A	11/20/18
18K0528-02	SB-56B	11/20/18
18K0528-03	SB-56C	11/20/18
18K0528-04	SB-57A	11/20/18
18K0528-05	SB-57B	11/20/18
18K0528-06	SB-57C	11/20/18
18K0528-07	SB-58A	11/20/18
BK81066-BLK1	Blank	11/20/18
BK81066-BS1	LCS	11/20/18

Batch ID: BK81067

Preparation Method: EPA SW846-3060

Prepared By: MAC



YORK Sample ID	Client Sample ID	Preparation Date
18K0528-05	SB-57B	11/20/18
18K0528-06	SB-57C	11/20/18
18K0528-07	SB-58A	11/20/18
18K0528-08	SB-58B	11/20/18
18K0528-09	SB-58C	11/20/18
18K0528-10	SB-59A	11/20/18
18K0528-11	SB-59B	11/20/18
18K0528-12	SB-59C	11/20/18
18K0528-13	SB-60A	11/20/18
18K0528-14	SB-60B	11/20/18
BK81067-BLK1	Blank	11/20/18
BK81067-SRM1	Reference	11/20/18

Batch ID: BK81108 **Preparation Method:** EPA 3550C **Prepared By:** ZRM

YORK Sample ID	Client Sample ID	Preparation Date
18K0528-05	SB-57B	11/20/18
18K0528-06	SB-57C	11/20/18
18K0528-07	SB-58A	11/20/18
18K0528-08	SB-58B	11/20/18
18K0528-08RE1	SB-58B	11/20/18
18K0528-08RE2	SB-58B	11/20/18
18K0528-08RE3	SB-58B	11/20/18
18K0528-09	SB-58C	11/20/18
18K0528-10	SB-59A	11/20/18
18K0528-10RE1	SB-59A	11/20/18
18K0528-10RE2	SB-59A	11/20/18
18K0528-11	SB-59B	11/20/18
18K0528-12	SB-59C	11/20/18
18K0528-13	SB-60A	11/20/18
18K0528-14	SB-60B	11/20/18
18K0528-15	SB-60C	11/20/18
18K0528-16	SB-61A	11/20/18
BK81108-BLK1	Blank	11/20/18
BK81108-BS1	LCS	11/20/18

Batch ID: BK81136 **Preparation Method:** EPA 3550C **Prepared By:** SGM

YORK Sample ID	Client Sample ID	Preparation Date
18K0528-19	SB-62	11/21/18
18K0528-20	SB-63	11/21/18

Batch ID: BK81138 **Preparation Method:** Analysis Preparation Soil **Prepared By:** JTV

YORK Sample ID	Client Sample ID	Preparation Date
18K0528-08	SB-58B	11/21/18
18K0528-09	SB-58C	11/21/18
18K0528-10	SB-59A	11/21/18
18K0528-11	SB-59B	11/21/18



18K0528-12	SB-59C	11/21/18
18K0528-13	SB-60A	11/21/18
18K0528-14	SB-60B	11/21/18
18K0528-15	SB-60C	11/21/18
18K0528-16	SB-61A	11/21/18
18K0528-17	SB-61B	11/21/18
18K0528-18	SB-61C	11/21/18
18K0528-21	SB-64A	11/21/18
18K0528-22	SB-64B	11/21/18
18K0528-23	SB-65A	11/21/18
18K0528-24	SB-65B	11/21/18
18K0528-25	SB-66A	11/21/18
18K0528-26	SB-66B	11/21/18
18K0528-27	SB-67A	11/21/18
18K0528-28	SB-67B	11/21/18
BK81138-BLK1	Blank	11/21/18
BK81138-BS1	LCS	11/21/18
BK81138-DUP1	Duplicate	11/21/18
BK81138-MS1	Matrix Spike	11/21/18

Batch ID: BK81139 **Preparation Method:** Analysis Preparation Soil **Prepared By:** JTV

YORK Sample ID	Client Sample ID	Preparation Date
18K0528-29	SB-68A	11/21/18
18K0528-30	SB-68B	11/21/18
BK81139-BLK1	Blank	11/21/18
BK81139-BS1	LCS	11/21/18

Batch ID: BK81145 **Preparation Method:** EPA SW846-3060 **Prepared By:** MAC

YORK Sample ID	Client Sample ID	Preparation Date
18K0528-15	SB-60C	11/21/18
18K0528-16	SB-61A	11/21/18
18K0528-17	SB-61B	11/21/18
18K0528-18	SB-61C	11/21/18
18K0528-21	SB-64A	11/21/18
18K0528-22	SB-64B	11/21/18
18K0528-23	SB-65A	11/21/18
18K0528-24	SB-65B	11/21/18
18K0528-25	SB-66A	11/21/18
18K0528-26	SB-66B	11/21/18
18K0528-27	SB-67A	11/21/18
18K0528-28	SB-67B	11/21/18
18K0528-29	SB-68A	11/21/18
18K0528-30	SB-68B	11/21/18
18K0528-31	SB-69A	11/21/18
18K0528-32	SB-69B	11/21/18
BK81145-BLK1	Blank	11/21/18
BK81145-DUP1	Duplicate	11/21/18
BK81145-MS1	Matrix Spike	11/21/18
BK81145-SRM1	Reference	11/21/18



Batch ID: BK81147

Preparation Method: EPA 5035A

Prepared By: LDS

YORK Sample ID	Client Sample ID	Preparation Date
18K0528-16	SB-61A	11/21/18
BK81147-BLK1	Blank	11/21/18
BK81147-BS1	LCS	11/21/18
BK81147-BSD1	LCS Dup	11/21/18

Batch ID: BK81229

Preparation Method: Analysis Preparation Soil

Prepared By: JTV

YORK Sample ID	Client Sample ID	Preparation Date
18K0528-31	SB-69A	11/26/18
18K0528-32	SB-69B	11/26/18
BK81229-BLK1	Blank	11/26/18
BK81229-BS1	LCS	11/26/18

Batch ID: BK81601

Preparation Method: Analysis Preparation

Prepared By: PAM

YORK Sample ID	Client Sample ID	Preparation Date
18K0528-01	SB-56A	11/30/18
18K0528-02	SB-56B	11/30/18
18K0528-03	SB-56C	11/30/18
18K0528-04	SB-57A	11/30/18
18K0528-05	SB-57B	11/30/18
18K0528-06	SB-57C	11/30/18
18K0528-07	SB-58A	11/30/18
18K0528-08	SB-58B	11/30/18
18K0528-09	SB-58C	11/30/18
18K0528-10	SB-59A	11/30/18
18K0528-11	SB-59B	11/30/18
18K0528-12	SB-59C	11/30/18
18K0528-13	SB-60A	11/30/18
18K0528-14	SB-60B	11/30/18
18K0528-15	SB-60C	11/30/18
18K0528-16	SB-61A	11/30/18
18K0528-17	SB-61B	11/30/18
18K0528-18	SB-61C	11/30/18
18K0528-21	SB-64A	11/30/18
18K0528-22	SB-64B	11/30/18
18K0528-23	SB-65A	11/30/18
18K0528-24	SB-65B	11/30/18
18K0528-25	SB-66A	11/30/18
18K0528-26	SB-66B	11/30/18
18K0528-27	SB-67A	11/30/18
18K0528-28	SB-67B	11/30/18
18K0528-29	SB-68A	11/30/18
18K0528-30	SB-68B	11/30/18
18K0528-31	SB-69A	11/30/18
18K0528-32	SB-69B	11/30/18



Batch ID: See attached

Preparation Method: Analysis Preparation

Prepared By:

YORK Sample ID	Client Sample ID	Preparation Date
18K0528-01	SB-56A	11/13/18
18K0528-02	SB-56B	11/13/18
18K0528-03	SB-56C	11/13/18
18K0528-04	SB-57A	11/13/18
18K0528-05	SB-57B	11/13/18
18K0528-06	SB-57C	11/13/18
18K0528-07	SB-58A	11/13/18
18K0528-08	SB-58B	11/13/18
18K0528-09	SB-58C	11/13/18
18K0528-10	SB-59A	11/13/18
18K0528-11	SB-59B	11/13/18
18K0528-12	SB-59C	11/13/18
18K0528-13	SB-60A	11/13/18
18K0528-14	SB-60B	11/13/18
18K0528-15	SB-60C	11/13/18
18K0528-16	SB-61A	11/13/18
18K0528-17	SB-61B	11/13/18
18K0528-18	SB-61C	11/13/18
18K0528-21	SB-64A	11/13/18
18K0528-22	SB-64B	11/13/18
18K0528-23	SB-65A	11/13/18
18K0528-24	SB-65B	11/13/18
18K0528-25	SB-66A	11/13/18
18K0528-26	SB-66B	11/13/18
18K0528-27	SB-67A	11/13/18
18K0528-28	SB-67B	11/13/18
18K0528-29	SB-68A	11/13/18
18K0528-30	SB-68B	11/13/18
18K0528-31	SB-69A	11/13/18
18K0528-32	SB-69B	11/13/18



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 Limit	Flag
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Batch BK80853 - EPA 5035A

Blank (BK80853-BLK1)

Prepared & Analyzed: 11/16/2018

1,1,1-Trichloroethane	ND	5.0	ug/kg wet								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	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	"								
Acetone	ND	10	"								
Benzene	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroform	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylene chloride	ND	10	"								
Naphthalene	2.6	10	"								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
sec-Butylbenzene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	50.0		ug/L	50.0		100	77-125				
<i>Surrogate: SURR: Toluene-d8</i>	53.4		"	50.0		107	85-120				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	53.8		"	50.0		108	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 BK80853 - EPA 5035A

LCS (BK80853-BS1)

Prepared & Analyzed: 11/16/2018

1,1,1-Trichloroethane	46		ug/L	50.0		92.8	71-137				
1,1-Dichloroethane	45		"	50.0		90.6	75-130				
1,1-Dichloroethylene	35		"	50.0		69.6	64-137				
1,2,4-Trimethylbenzene	48		"	50.0		96.7	84-125				
1,2-Dichlorobenzene	59		"	50.0		118	85-122				
1,2-Dichloroethane	49		"	50.0		97.7	71-133				
1,3,5-Trimethylbenzene	51		"	50.0		103	82-126				
1,3-Dichlorobenzene	54		"	50.0		109	84-124				
1,4-Dichlorobenzene	58		"	50.0		115	84-124				
1,4-Dioxane	2600		"	1050		244	10-228	High Bias			
2-Butanone	42		"	50.0		84.0	58-147				
Acetone	34		"	50.0		67.1	36-155				
Benzene	47		"	50.0		93.9	77-127				
Carbon tetrachloride	47		"	50.0		93.6	66-143				
Chlorobenzene	56		"	50.0		111	86-120				
Chloroform	48		"	50.0		96.5	76-131				
cis-1,2-Dichloroethylene	48		"	50.0		96.4	74-132				
Ethyl Benzene	52		"	50.0		104	84-125				
Methyl tert-butyl ether (MTBE)	46		"	50.0		92.7	74-131				
Methylene chloride	38		"	50.0		75.2	57-141				
Naphthalene	55		"	50.0		110	86-141				
n-Butylbenzene	53		"	50.0		105	80-130				
n-Propylbenzene	49		"	50.0		97.4	74-136				
o-Xylene	54		"	50.0		109	83-123				
p- & m- Xylenes	100		"	100		102	82-128				
sec-Butylbenzene	54		"	50.0		108	83-125				
tert-Butylbenzene	52		"	50.0		104	80-127				
Tetrachloroethylene	52		"	50.0		103	80-129				
Toluene	53		"	50.0		105	85-121				
trans-1,2-Dichloroethylene	43		"	50.0		86.6	72-132				
Trichloroethylene	53		"	50.0		106	84-123				
Vinyl Chloride	60		"	50.0		120	52-130				
Surrogate: Surr: 1,2-Dichloroethane-d4	51.6		"	50.0		103	77-125				
Surrogate: Surr: Toluene-d8	51.9		"	50.0		104	85-120				
Surrogate: Surr: p-Bromofluorobenzene	48.0		"	50.0		96.1	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

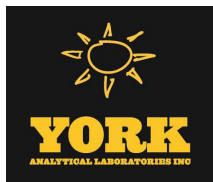
Analyte	Result	Reporting	Units	Spike Level	Source*	%REC	Limits	Flag	RPD	
		Limit			Result	%REC			RPD	Limit

Batch BK80853 - EPA 5035A

LCS Dup (BK80853-BSD1)

Prepared & Analyzed: 11/16/2018

1,1,1-Trichloroethane	48		ug/L	50.0		95.3	71-137		2.68	30
1,1-Dichloroethane	45		"	50.0		90.5	75-130		0.0442	30
1,1-Dichloroethylene	36		"	50.0		72.3	64-137		3.81	30
1,2,4-Trimethylbenzene	49		"	50.0		98.5	84-125		1.78	30
1,2-Dichlorobenzene	58		"	50.0		117	85-122		0.733	30
1,2-Dichloroethane	50		"	50.0		100	71-133		2.78	30
1,3,5-Trimethylbenzene	51		"	50.0		103	82-126		0.0777	30
1,3-Dichlorobenzene	54		"	50.0		108	84-124		0.721	30
1,4-Dichlorobenzene	58		"	50.0		115	84-124		0.0869	30
1,4-Dioxane	1900		"	1050		185	10-228		27.5	30
2-Butanone	46		"	50.0		91.6	58-147		8.68	30
Acetone	35		"	50.0		69.5	36-155		3.51	30
Benzene	48		"	50.0		96.1	77-127		2.25	30
Carbon tetrachloride	48		"	50.0		95.1	66-143		1.53	30
Chlorobenzene	55		"	50.0		111	86-120		0.433	30
Chloroform	49		"	50.0		98.5	76-131		2.09	30
cis-1,2-Dichloroethylene	48		"	50.0		95.8	74-132		0.624	30
Ethyl Benzene	52		"	50.0		105	84-125		0.364	30
Methyl tert-butyl ether (MTBE)	46		"	50.0		92.3	74-131		0.411	30
Methylene chloride	38		"	50.0		76.6	57-141		1.87	30
Naphthalene	57		"	50.0		114	86-141		3.35	30
n-Butylbenzene	53		"	50.0		106	80-130		0.360	30
n-Propylbenzene	49		"	50.0		98.0	74-136		0.594	30
o-Xylene	55		"	50.0		110	83-123		0.531	30
p- & m- Xylenes	100		"	100		103	82-128		0.721	30
sec-Butylbenzene	55		"	50.0		111	83-125		2.12	30
tert-Butylbenzene	53		"	50.0		105	80-127		1.03	30
Tetrachloroethylene	53		"	50.0		106	80-129		2.20	30
Toluene	53		"	50.0		106	85-121		0.114	30
trans-1,2-Dichloroethylene	44		"	50.0		87.2	72-132		0.621	30
Trichloroethylene	54		"	50.0		108	84-123		2.32	30
Vinyl Chloride	52		"	50.0		104	52-130		14.3	30
<i>Surrogate: Surr: 1,2-Dichloroethane-d4</i>	52.3		"	50.0		105	77-125			
<i>Surrogate: Surr: Toluene-d8</i>	52.6		"	50.0		105	85-120			
<i>Surrogate: Surr: p-Bromofluorobenzene</i>	49.0		"	50.0		97.9	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 BK80854 - EPA 5035A

Blank (BK80854-BLK1)

Prepared & Analyzed: 11/16/2018

1,1,1-Trichloroethane	ND	5.0	ug/kg wet								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	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	"								
Acetone	ND	10	"								
Benzene	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroform	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylene chloride	ND	10	"								
Naphthalene	2.8	10	"								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
sec-Butylbenzene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
Surrogate: SURRE: 1,2-Dichloroethane-d4	48.0		ug/L	50.0		95.9	77-125				
Surrogate: SURRE: Toluene-d8	51.0		"	50.0		102	85-120				
Surrogate: SURRE: p-Bromofluorobenzene	52.0		"	50.0		104	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit							Units			

Batch BK80854 - EPA 5035A

LCS (BK80854-BS1)

Prepared & Analyzed: 11/16/2018

1,1,1-Trichloroethane	55		ug/L	50.0	109	71-137						
1,1-Dichloroethane	54		"	50.0	109	75-130						
1,1-Dichloroethylene	53		"	50.0	105	64-137						
1,2,4-Trimethylbenzene	55		"	50.0	110	84-125						
1,2-Dichlorobenzene	57		"	50.0	114	85-122						
1,2-Dichloroethane	54		"	50.0	109	71-133						
1,3,5-Trimethylbenzene	67		"	50.0	134	82-126	High Bias					
1,3-Dichlorobenzene	57		"	50.0	114	84-124						
1,4-Dichlorobenzene	57		"	50.0	113	84-124						
1,4-Dioxane	2000		"	1050	188	10-228						
2-Butanone	51		"	50.0	103	58-147						
Acetone	41		"	50.0	82.8	36-155						
Benzene	57		"	50.0	115	77-127						
Carbon tetrachloride	55		"	50.0	110	66-143						
Chlorobenzene	54		"	50.0	108	86-120						
Chloroform	55		"	50.0	110	76-131						
cis-1,2-Dichloroethylene	57		"	50.0	114	74-132						
Ethyl Benzene	56		"	50.0	112	84-125						
Methyl tert-butyl ether (MTBE)	55		"	50.0	111	74-131						
Methylene chloride	50		"	50.0	99.4	57-141						
Naphthalene	46		"	50.0	92.4	86-141						
n-Butylbenzene	57		"	50.0	114	80-130						
n-Propylbenzene	56		"	50.0	111	74-136						
o-Xylene	55		"	50.0	110	83-123						
p- & m- Xylenes	110		"	100	111	82-128						
sec-Butylbenzene	54		"	50.0	108	83-125						
tert-Butylbenzene	45		"	50.0	90.5	80-127						
Tetrachloroethylene	47		"	50.0	93.3	80-129						
Toluene	55		"	50.0	111	85-121						
trans-1,2-Dichloroethylene	54		"	50.0	108	72-132						
Trichloroethylene	56		"	50.0	112	84-123						
Vinyl Chloride	48		"	50.0	96.6	52-130						
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>49.4</i>		<i>"</i>	<i>50.0</i>	<i>98.8</i>	<i>77-125</i>						
<i>Surrogate: SURR: Toluene-d8</i>	<i>49.9</i>		<i>"</i>	<i>50.0</i>	<i>99.8</i>	<i>85-120</i>						
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>52.7</i>		<i>"</i>	<i>50.0</i>	<i>105</i>	<i>76-130</i>						



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 BK80854 - EPA 5035A

LCS Dup (BK80854-BSD1)

Prepared & Analyzed: 11/16/2018

1,1,1-Trichloroethane	54		ug/L	50.0		107	71-137		1.55	30	
1,1-Dichloroethane	54		"	50.0		107	75-130		1.39	30	
1,1-Dichloroethylene	53		"	50.0		106	64-137		0.721	30	
1,2,4-Trimethylbenzene	52		"	50.0		105	84-125		4.56	30	
1,2-Dichlorobenzene	54		"	50.0		108	85-122		5.31	30	
1,2-Dichloroethane	56		"	50.0		111	71-133		2.45	30	
1,3,5-Trimethylbenzene	62		"	50.0		125	82-126		7.08	30	
1,3-Dichlorobenzene	53		"	50.0		107	84-124		6.17	30	
1,4-Dichlorobenzene	51		"	50.0		101	84-124		11.0	30	
1,4-Dioxane	2100		"	1050		201	10-228		6.77	30	
2-Butanone	53		"	50.0		106	58-147		3.73	30	
Acetone	44		"	50.0		88.3	36-155		6.50	30	
Benzene	57		"	50.0		113	77-127		0.930	30	
Carbon tetrachloride	54		"	50.0		107	66-143		2.61	30	
Chlorobenzene	54		"	50.0		109	86-120		0.313	30	
Chloroform	55		"	50.0		110	76-131		0.345	30	
cis-1,2-Dichloroethylene	57		"	50.0		114	74-132		0.0527	30	
Ethyl Benzene	54		"	50.0		109	84-125		3.27	30	
Methyl tert-butyl ether (MTBE)	54		"	50.0		108	74-131		2.40	30	
Methylene chloride	50		"	50.0		99.7	57-141		0.322	30	
Naphthalene	45		"	50.0		89.9	86-141		2.77	30	
n-Butylbenzene	53		"	50.0		107	80-130		6.71	30	
n-Propylbenzene	52		"	50.0		105	74-136		6.06	30	
o-Xylene	54		"	50.0		108	83-123		2.16	30	
p- & m- Xylenes	110		"	100		106	82-128		4.70	30	
sec-Butylbenzene	52		"	50.0		104	83-125		3.46	30	
tert-Butylbenzene	42		"	50.0		83.2	80-127		8.45	30	
Tetrachloroethylene	46		"	50.0		92.0	80-129		1.47	30	
Toluene	53		"	50.0		106	85-121		4.42	30	
trans-1,2-Dichloroethylene	53		"	50.0		106	72-132		1.83	30	
Trichloroethylene	56		"	50.0		111	84-123		0.305	30	
Vinyl Chloride	48		"	50.0		95.2	52-130		1.38	30	
<i>Surrogate: SURRE: 1,2-Dichloroethane-d4</i>	<i>51.1</i>		<i>"</i>	<i>50.0</i>		<i>102</i>	<i>77-125</i>				
<i>Surrogate: SURRE: Toluene-d8</i>	<i>49.7</i>		<i>"</i>	<i>50.0</i>		<i>99.5</i>	<i>85-120</i>				
<i>Surrogate: SURRE: p-Bromofluorobenzene</i>	<i>48.7</i>		<i>"</i>	<i>50.0</i>		<i>97.5</i>	<i>76-130</i>				



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit								RPD	Limit

Batch BK80937 - EPA 5035A

Blank (BK80937-BLK1)

Prepared: 11/16/2018 Analyzed: 11/17/2018

1,1,1-Trichloroethane	ND	5.0	ug/kg wet								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	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	"								
Acetone	ND	10	"								
Benzene	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroform	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylene chloride	ND	10	"								
Naphthalene	2.7	10	"								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
sec-Butylbenzene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>47.1</i>		<i>ug/L</i>	<i>50.0</i>		<i>94.2</i>	<i>77-125</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>50.6</i>		<i>"</i>	<i>50.0</i>		<i>101</i>	<i>85-120</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>48.3</i>		<i>"</i>	<i>50.0</i>		<i>96.6</i>	<i>76-130</i>				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Flag
		Limit								Units	

Batch BK80937 - EPA 5035A

LCS (BK80937-BS1)

Prepared & Analyzed: 11/16/2018

1,1,1-Trichloroethane	49		ug/L	50.0		98.2	71-137				
1,1-Dichloroethane	50		"	50.0		100	75-130				
1,1-Dichloroethylene	47		"	50.0		94.4	64-137				
1,2,4-Trimethylbenzene	52		"	50.0		103	84-125				
1,2-Dichlorobenzene	52		"	50.0		105	85-122				
1,2-Dichloroethane	48		"	50.0		96.1	71-133				
1,3,5-Trimethylbenzene	52		"	50.0		103	82-126				
1,3-Dichlorobenzene	51		"	50.0		103	84-124				
1,4-Dichlorobenzene	50		"	50.0		99.4	84-124				
1,4-Dioxane	1800		"	1050		170	10-228				
2-Butanone	49		"	50.0		98.4	58-147				
Acetone	35		"	50.0		69.3	36-155				
Benzene	53		"	50.0		106	77-127				
Carbon tetrachloride	50		"	50.0		99.4	66-143				
Chlorobenzene	51		"	50.0		102	86-120				
Chloroform	51		"	50.0		103	76-131				
cis-1,2-Dichloroethylene	51		"	50.0		103	74-132				
Ethyl Benzene	51		"	50.0		102	84-125				
Methyl tert-butyl ether (MTBE)	51		"	50.0		101	74-131				
Methylene chloride	48		"	50.0		95.8	57-141				
Naphthalene	45		"	50.0		90.2	86-141				
n-Butylbenzene	51		"	50.0		101	80-130				
n-Propylbenzene	51		"	50.0		102	74-136				
o-Xylene	51		"	50.0		103	83-123				
p- & m- Xylenes	100		"	100		101	82-128				
sec-Butylbenzene	51		"	50.0		102	83-125				
tert-Butylbenzene	41		"	50.0		81.9	80-127				
Tetrachloroethylene	44		"	50.0		87.7	80-129				
Toluene	52		"	50.0		104	85-121				
trans-1,2-Dichloroethylene	50		"	50.0		99.5	72-132				
Trichloroethylene	54		"	50.0		108	84-123				
Vinyl Chloride	48		"	50.0		95.0	52-130				
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>45.0</i>		<i>"</i>	<i>50.0</i>		<i>90.0</i>	<i>77-125</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>50.0</i>		<i>"</i>	<i>50.0</i>		<i>99.9</i>	<i>85-120</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>50.0</i>		<i>"</i>	<i>50.0</i>		<i>100</i>	<i>76-130</i>				



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 BK80937 - EPA 5035A

LCS Dup (BK80937-BSD1)

Prepared: 11/16/2018 Analyzed: 11/17/2018

1,1,1-Trichloroethane	51		ug/L	50.0		102	71-137		3.58	30	
1,1-Dichloroethane	52		"	50.0		105	75-130		4.24	30	
1,1-Dichloroethylene	48		"	50.0		95.2	64-137		0.844	30	
1,2,4-Trimethylbenzene	53		"	50.0		106	84-125		2.41	30	
1,2-Dichlorobenzene	55		"	50.0		110	85-122		5.02	30	
1,2-Dichloroethane	49		"	50.0		98.8	71-133		2.79	30	
1,3,5-Trimethylbenzene	53		"	50.0		106	82-126		2.41	30	
1,3-Dichlorobenzene	56		"	50.0		112	84-124		8.70	30	
1,4-Dichlorobenzene	54		"	50.0		108	84-124		8.10	30	
1,4-Dioxane	2000		"	1050		188	10-228		10.4	30	
2-Butanone	46		"	50.0		91.2	58-147		7.55	30	
Acetone	36		"	50.0		71.2	36-155		2.68	30	
Benzene	55		"	50.0		110	77-127		2.92	30	
Carbon tetrachloride	49		"	50.0		98.9	66-143		0.525	30	
Chlorobenzene	55		"	50.0		109	86-120		6.29	30	
Chloroform	52		"	50.0		105	76-131		1.83	30	
cis-1,2-Dichloroethylene	52		"	50.0		105	74-132		2.05	30	
Ethyl Benzene	55		"	50.0		110	84-125		7.59	30	
Methyl tert-butyl ether (MTBE)	51		"	50.0		102	74-131		1.02	30	
Methylene chloride	49		"	50.0		97.4	57-141		1.59	30	
Naphthalene	46		"	50.0		91.3	86-141		1.21	30	
n-Butylbenzene	54		"	50.0		108	80-130		6.89	30	
n-Propylbenzene	53		"	50.0		106	74-136		3.52	30	
o-Xylene	54		"	50.0		109	83-123		5.53	30	
p- & m- Xylenes	110		"	100		107	82-128		5.98	30	
sec-Butylbenzene	53		"	50.0		106	83-125		3.74	30	
tert-Butylbenzene	44		"	50.0		87.2	80-127		6.17	30	
Tetrachloroethylene	44		"	50.0		87.6	80-129		0.0685	30	
Toluene	54		"	50.0		108	85-121		3.76	30	
trans-1,2-Dichloroethylene	50		"	50.0		100	72-132		0.900	30	
Trichloroethylene	54		"	50.0		108	84-123		0.130	30	
Vinyl Chloride	48		"	50.0		95.1	52-130		0.105	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	45.0		"	50.0		90.1	77-125				
Surrogate: SURR: Toluene-d8	49.8		"	50.0		99.7	85-120				
Surrogate: SURR: p-Bromofluorobenzene	47.4		"	50.0		94.8	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit								RPD	

Batch BK80972 - EPA 5035A

Blank (BK80972-BLK1)

Prepared & Analyzed: 11/17/2018

1,1,1-Trichloroethane	ND	5.0	ug/kg wet								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	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	"								
Acetone	ND	10	"								
Benzene	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroform	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylene chloride	ND	10	"								
Naphthalene	2.7	10	"								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
sec-Butylbenzene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>50.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>100</i>		<i>77-125</i>			
<i>Surrogate: SURR: Toluene-d8</i>	<i>44.6</i>		<i>"</i>	<i>50.0</i>		<i>89.3</i>		<i>85-120</i>			
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>49.5</i>		<i>"</i>	<i>50.0</i>		<i>99.0</i>		<i>76-130</i>			



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	
		Limit								Units	Level

Batch BK80972 - EPA 5035A

LCS (BK80972-BS1)

Prepared & Analyzed: 11/17/2018

1,1,1-Trichloroethane	49		ug/L	50.0		98.1	71-137				
1,1-Dichloroethane	47		"	50.0		94.2	75-130				
1,1-Dichloroethylene	37		"	50.0		73.1	64-137				
1,2,4-Trimethylbenzene	49		"	50.0		97.8	84-125				
1,2-Dichlorobenzene	54		"	50.0		107	85-122				
1,2-Dichloroethane	49		"	50.0		98.6	71-133				
1,3,5-Trimethylbenzene	46		"	50.0		92.9	82-126				
1,3-Dichlorobenzene	48		"	50.0		95.8	84-124				
1,4-Dichlorobenzene	52		"	50.0		104	84-124				
1,4-Dioxane	240		"	1050		23.1	10-228				
2-Butanone	50		"	50.0		101	58-147				
Acetone	42		"	50.0		83.3	36-155				
Benzene	48		"	50.0		96.2	77-127				
Carbon tetrachloride	49		"	50.0		98.4	66-143				
Chlorobenzene	48		"	50.0		95.1	86-120				
Chloroform	50		"	50.0		99.7	76-131				
cis-1,2-Dichloroethylene	56		"	50.0		112	74-132				
Ethyl Benzene	38		"	50.0		76.6	84-125	Low Bias			
Methyl tert-butyl ether (MTBE)	52		"	50.0		104	74-131				
Methylene chloride	41		"	50.0		82.9	57-141				
Naphthalene	62		"	50.0		125	86-141				
n-Butylbenzene	42		"	50.0		84.2	80-130				
n-Propylbenzene	43		"	50.0		85.3	74-136				
o-Xylene	40		"	50.0		79.8	83-123	Low Bias			
p- & m- Xylenes	66		"	100		65.6	82-128	Low Bias			
sec-Butylbenzene	48		"	50.0		95.5	83-125				
tert-Butylbenzene	50		"	50.0		101	80-127				
Tetrachloroethylene	37		"	50.0		73.2	80-129	Low Bias			
Toluene	38		"	50.0		76.6	85-121	Low Bias			
trans-1,2-Dichloroethylene	45		"	50.0		89.7	72-132				
Trichloroethylene	41		"	50.0		82.3	84-123	Low Bias			
Vinyl Chloride	42		"	50.0		84.4	52-130				
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>51.7</i>		<i>"</i>	<i>50.0</i>		<i>103</i>	<i>77-125</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>44.6</i>		<i>"</i>	<i>50.0</i>		<i>89.2</i>	<i>85-120</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>45.8</i>		<i>"</i>	<i>50.0</i>		<i>91.5</i>	<i>76-130</i>				



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
Batch BK80972 - EPA 5035A											
LCS Dup (BK80972-BSD1)											
Prepared & Analyzed: 11/17/2018											
1,1,1-Trichloroethane	51		ug/L	50.0		102	71-137		3.51	30	
1,1-Dichloroethane	48		"	50.0		96.6	75-130		2.43	30	
1,1-Dichloroethylene	35		"	50.0		70.3	64-137		3.88	30	
1,2,4-Trimethylbenzene	48		"	50.0		95.6	84-125		2.32	30	
1,2-Dichlorobenzene	56		"	50.0		111	85-122		4.01	30	
1,2-Dichloroethane	51		"	50.0		101	71-133		2.66	30	
1,3,5-Trimethylbenzene	49		"	50.0		97.5	82-126		4.75	30	
1,3-Dichlorobenzene	49		"	50.0		99.0	84-124		3.22	30	
1,4-Dichlorobenzene	54		"	50.0		108	84-124		4.00	30	
1,4-Dioxane	500		"	1050		47.8	10-228		69.8	30	Non-dir.
2-Butanone	52		"	50.0		104	58-147		2.94	30	
Acetone	29		"	50.0		57.4	36-155		36.8	30	Non-dir.
Benzene	51		"	50.0		102	77-127		5.75	30	
Carbon tetrachloride	52		"	50.0		104	66-143		5.03	30	
Chlorobenzene	49		"	50.0		98.5	86-120		3.53	30	
Chloroform	52		"	50.0		104	76-131		3.76	30	
cis-1,2-Dichloroethylene	58		"	50.0		116	74-132		3.46	30	
Ethyl Benzene	40		"	50.0		80.2	84-125	Low Bias	4.51	30	
Methyl tert-butyl ether (MTBE)	52		"	50.0		104	74-131		0.116	30	
Methylene chloride	40		"	50.0		79.6	57-141		3.99	30	
Naphthalene	65		"	50.0		130	86-141		4.21	30	
n-Butylbenzene	46		"	50.0		91.4	80-130		8.25	30	
n-Propylbenzene	44		"	50.0		87.6	74-136		2.57	30	
o-Xylene	41		"	50.0		82.6	83-123	Low Bias	3.42	30	
p- & m- Xylenes	69		"	100		68.7	82-128	Low Bias	4.60	30	
sec-Butylbenzene	52		"	50.0		104	83-125		8.58	30	
tert-Butylbenzene	52		"	50.0		105	80-127		3.58	30	
Tetrachloroethylene	36		"	50.0		71.4	80-129	Low Bias	2.46	30	
Toluene	40		"	50.0		80.0	85-121	Low Bias	4.34	30	
trans-1,2-Dichloroethylene	44		"	50.0		88.9	72-132		0.985	30	
Trichloroethylene	43		"	50.0		86.2	84-123		4.56	30	
Vinyl Chloride	43		"	50.0		85.8	52-130		1.65	30	
Surrogate: SURRE: 1,2-Dichloroethane-d4	50.6		"	50.0		101	77-125				
Surrogate: SURRE: Toluene-d8	43.8		"	50.0		87.7	85-120				
Surrogate: SURRE: p-Bromofluorobenzene	46.7		"	50.0		93.4	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit			Result					Limit			

Batch BK80977 - EPA 5035A

Blank (BK80977-BLK1)

Prepared & Analyzed: 11/17/2018

1,1,1-Trichloroethane	ND	5.0	ug/kg wet										
1,1-Dichloroethane	ND	5.0	"										
1,1-Dichloroethylene	ND	5.0	"										
1,2,4-Trimethylbenzene	ND	5.0	"										
1,2-Dichlorobenzene	ND	5.0	"										
1,2-Dichloroethane	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	"										
Acetone	ND	10	"										
Benzene	ND	5.0	"										
Carbon tetrachloride	ND	5.0	"										
Chlorobenzene	ND	5.0	"										
Chloroform	ND	5.0	"										
cis-1,2-Dichloroethylene	ND	5.0	"										
Ethyl Benzene	ND	5.0	"										
Methyl tert-butyl ether (MTBE)	ND	5.0	"										
Methylene chloride	ND	10	"										
Naphthalene	2.7	10	"										
n-Butylbenzene	ND	5.0	"										
n-Propylbenzene	ND	5.0	"										
o-Xylene	ND	5.0	"										
p- & m- Xylenes	ND	10	"										
sec-Butylbenzene	ND	5.0	"										
tert-Butylbenzene	ND	5.0	"										
Tetrachloroethylene	ND	5.0	"										
Toluene	ND	5.0	"										
trans-1,2-Dichloroethylene	ND	5.0	"										
Trichloroethylene	ND	5.0	"										
Vinyl Chloride	ND	5.0	"										
Xylenes, Total	ND	15	"										
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	48.2		ug/L	50.0		96.4		77-125					
<i>Surrogate: SURR: Toluene-d8</i>	47.7		"	50.0		95.5		85-120					
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	53.3		"	50.0		107		76-130					



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Limit	Flag
		Limit			Result					RPD		

Batch BK80977 - EPA 5035A

LCS (BK80977-BS1)

Prepared & Analyzed: 11/17/2018

1,1,1-Trichloroethane	50		ug/L	50.0		100		71-137				
1,1-Dichloroethane	53		"	50.0		105		75-130				
1,1-Dichloroethylene	49		"	50.0		97.9		64-137				
1,2,4-Trimethylbenzene	52		"	50.0		105		84-125				
1,2-Dichlorobenzene	54		"	50.0		107		85-122				
1,2-Dichloroethane	52		"	50.0		103		71-133				
1,3,5-Trimethylbenzene	52		"	50.0		105		82-126				
1,3-Dichlorobenzene	56		"	50.0		113		84-124				
1,4-Dichlorobenzene	53		"	50.0		106		84-124				
1,4-Dioxane	1900		"	1050		182		10-228				
2-Butanone	47		"	50.0		94.7		58-147				
Acetone	43		"	50.0		86.9		36-155				
Benzene	56		"	50.0		113		77-127				
Carbon tetrachloride	51		"	50.0		101		66-143				
Chlorobenzene	54		"	50.0		109		86-120				
Chloroform	53		"	50.0		106		76-131				
cis-1,2-Dichloroethylene	56		"	50.0		111		74-132				
Ethyl Benzene	54		"	50.0		107		84-125				
Methyl tert-butyl ether (MTBE)	52		"	50.0		104		74-131				
Methylene chloride	49		"	50.0		97.1		57-141				
Naphthalene	44		"	50.0		88.8		86-141				
n-Butylbenzene	53		"	50.0		106		80-130				
n-Propylbenzene	54		"	50.0		107		74-136				
o-Xylene	53		"	50.0		105		83-123				
p- & m- Xylenes	100		"	100		105		82-128				
sec-Butylbenzene	53		"	50.0		105		83-125				
tert-Butylbenzene	43		"	50.0		85.8		80-127				
Tetrachloroethylene	46		"	50.0		91.3		80-129				
Toluene	53		"	50.0		105		85-121				
trans-1,2-Dichloroethylene	53		"	50.0		105		72-132				
Trichloroethylene	54		"	50.0		108		84-123				
Vinyl Chloride	46		"	50.0		91.5		52-130				
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>47.3</i>		<i>"</i>	<i>50.0</i>		<i>94.6</i>		<i>77-125</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>50.1</i>		<i>"</i>	<i>50.0</i>		<i>100</i>		<i>85-120</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>50.6</i>		<i>"</i>	<i>50.0</i>		<i>101</i>		<i>76-130</i>				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

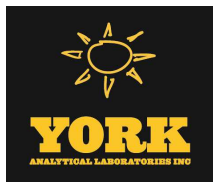
Analyte	Result	Reporting	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit							Units	Level

Batch BK80977 - EPA 5035A

LCS Dup (BK80977-BSD1)

Prepared & Analyzed: 11/17/2018

1,1,1-Trichloroethane	47		ug/L	50.0	93.9	71-137		6.71	30
1,1-Dichloroethane	50		"	50.0	101	75-130		4.46	30
1,1-Dichloroethylene	47		"	50.0	93.8	64-137		4.36	30
1,2,4-Trimethylbenzene	51		"	50.0	101	84-125		3.67	30
1,2-Dichlorobenzene	50		"	50.0	101	85-122		6.16	30
1,2-Dichloroethane	49		"	50.0	97.1	71-133		5.90	30
1,3,5-Trimethylbenzene	51		"	50.0	101	82-126		3.67	30
1,3-Dichlorobenzene	53		"	50.0	106	84-124		6.21	30
1,4-Dichlorobenzene	50		"	50.0	101	84-124		4.79	30
1,4-Dioxane	1800		"	1050	170	10-228		6.76	30
2-Butanone	46		"	50.0	92.4	58-147		2.50	30
Acetone	39		"	50.0	77.6	36-155		11.2	30
Benzene	53		"	50.0	107	77-127		5.49	30
Carbon tetrachloride	48		"	50.0	96.4	66-143		5.00	30
Chlorobenzene	52		"	50.0	103	86-120		5.16	30
Chloroform	50		"	50.0	100	76-131		6.08	30
cis-1,2-Dichloroethylene	51		"	50.0	103	74-132		7.84	30
Ethyl Benzene	52		"	50.0	103	84-125		3.51	30
Methyl tert-butyl ether (MTBE)	50		"	50.0	99.1	74-131		4.61	30
Methylene chloride	45		"	50.0	90.8	57-141		6.71	30
Naphthalene	43		"	50.0	86.2	86-141		2.99	30
n-Butylbenzene	50		"	50.0	100	80-130		5.65	30
n-Propylbenzene	50		"	50.0	101	74-136		5.94	30
o-Xylene	50		"	50.0	101	83-123		4.41	30
p- & m- Xylenes	100		"	100	101	82-128		3.82	30
sec-Butylbenzene	50		"	50.0	100	83-125		4.75	30
tert-Butylbenzene	41		"	50.0	81.9	80-127		4.70	30
Tetrachloroethylene	44		"	50.0	87.4	80-129		4.32	30
Toluene	50		"	50.0	101	85-121		4.60	30
trans-1,2-Dichloroethylene	48		"	50.0	96.4	72-132		8.67	30
Trichloroethylene	53		"	50.0	106	84-123		1.20	30
Vinyl Chloride	45		"	50.0	89.7	52-130		1.99	30
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>45.8</i>		<i>"</i>	<i>50.0</i>	<i>91.6</i>	<i>77-125</i>			
<i>Surrogate: SURR: Toluene-d8</i>	<i>50.6</i>		<i>"</i>	<i>50.0</i>	<i>101</i>	<i>85-120</i>			
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>50.1</i>		<i>"</i>	<i>50.0</i>	<i>100</i>	<i>76-130</i>			



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 BK81041 - EPA 5035A

Blank (BK81041-BLK1)

Prepared & Analyzed: 11/19/2018

1,1,1-Trichloroethane	ND	5.0	ug/kg wet								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	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	"								
Acetone	ND	10	"								
Benzene	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroform	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylene chloride	ND	10	"								
Naphthalene	3.3	10	"								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
sec-Butylbenzene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
Surrogate: SURRE: 1,2-Dichloroethane-d4	50.8		ug/L	50.0		102	77-125				
Surrogate: SURRE: Toluene-d8	44.0		"	50.0		88.1	85-120				
Surrogate: SURRE: p-Bromofluorobenzene	50.9		"	50.0		102	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 BK81041 - EPA 5035A

LCS (BK81041-BS1)

Prepared & Analyzed: 11/19/2018

1,1,1-Trichloroethane	65		ug/L	50.0		129	71-137				
1,1-Dichloroethane	56		"	50.0		113	75-130				
1,1-Dichloroethylene	40		"	50.0		80.8	64-137				
1,2,4-Trimethylbenzene	50		"	50.0		101	84-125				
1,2-Dichlorobenzene	59		"	50.0		118	85-122				
1,2-Dichloroethane	56		"	50.0		112	71-133				
1,3,5-Trimethylbenzene	53		"	50.0		105	82-126				
1,3-Dichlorobenzene	55		"	50.0		110	84-124				
1,4-Dichlorobenzene	59		"	50.0		119	84-124				
1,4-Dioxane	470		"	1050		45.1	10-228				
2-Butanone	49		"	50.0		97.8	58-147				
Acetone	26		"	50.0		51.4	36-155				
Benzene	58		"	50.0		117	77-127				
Carbon tetrachloride	68		"	50.0		136	66-143				
Chlorobenzene	55		"	50.0		110	86-120				
Chloroform	59		"	50.0		118	76-131				
cis-1,2-Dichloroethylene	65		"	50.0		131	74-132				
Ethyl Benzene	47		"	50.0		93.6	84-125				
Methyl tert-butyl ether (MTBE)	53		"	50.0		106	74-131				
Methylene chloride	37		"	50.0		73.7	57-141				
Naphthalene	58		"	50.0		117	86-141				
n-Butylbenzene	50		"	50.0		100	80-130				
n-Propylbenzene	47		"	50.0		93.8	74-136				
o-Xylene	47		"	50.0		93.3	83-123				
p- & m- Xylenes	80		"	100		79.7	82-128	Low Bias			
sec-Butylbenzene	57		"	50.0		115	83-125				
tert-Butylbenzene	58		"	50.0		115	80-127				
Tetrachloroethylene	48		"	50.0		96.6	80-129				
Toluene	47		"	50.0		94.0	85-121				
trans-1,2-Dichloroethylene	53		"	50.0		106	72-132				
Trichloroethylene	53		"	50.0		106	84-123				
Vinyl Chloride	37		"	50.0		73.2	52-130				
Surrogate: SURRE: 1,2-Dichloroethane-d4	52.3		"	50.0		105	77-125				
Surrogate: SURRE: Toluene-d8	44.0		"	50.0		88.1	85-120				
Surrogate: SURRE: p-Bromofluorobenzene	46.2		"	50.0		92.4	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 BK81041 - EPA 5035A

LCS Dup (BK81041-BSD1)

Prepared & Analyzed: 11/19/2018

1,1,1-Trichloroethane	65		ug/L	50.0		131	71-137		1.40	30	
1,1-Dichloroethane	57		"	50.0		114	75-130		1.50	30	
1,1-Dichloroethylene	37		"	50.0		74.4	64-137		8.24	30	
1,2,4-Trimethylbenzene	52		"	50.0		104	84-125		2.52	30	
1,2-Dichlorobenzene	60		"	50.0		119	85-122		1.08	30	
1,2-Dichloroethane	57		"	50.0		115	71-133		2.04	30	
1,3,5-Trimethylbenzene	54		"	50.0		108	82-126		2.70	30	
1,3-Dichlorobenzene	57		"	50.0		114	84-124		3.42	30	
1,4-Dichlorobenzene	61		"	50.0		122	84-124		2.74	30	
1,4-Dioxane	410		"	1050		39.2	10-228		14.2	30	
2-Butanone	49		"	50.0		98.3	58-147		0.510	30	
Acetone	26		"	50.0		51.1	36-155		0.663	30	
Benzene	60		"	50.0		120	77-127		2.59	30	
Carbon tetrachloride	69		"	50.0		138	66-143		1.69	30	
Chlorobenzene	55		"	50.0		109	86-120		0.438	30	
Chloroform	61		"	50.0		122	76-131		3.29	30	
cis-1,2-Dichloroethylene	67		"	50.0		134	74-132	High Bias	2.12	30	
Ethyl Benzene	47		"	50.0		93.6	84-125		0.0427	30	
Methyl tert-butyl ether (MTBE)	53		"	50.0		107	74-131		1.32	30	
Methylene chloride	37		"	50.0		74.0	57-141		0.406	30	
Naphthalene	62		"	50.0		124	86-141		5.63	30	
n-Butylbenzene	52		"	50.0		104	80-130		3.34	30	
n-Propylbenzene	48		"	50.0		96.2	74-136		2.55	30	
o-Xylene	47		"	50.0		94.1	83-123		0.811	30	
p- & m- Xylenes	80		"	100		80.1	82-128	Low Bias	0.501	30	
sec-Butylbenzene	58		"	50.0		117	83-125		1.92	30	
tert-Butylbenzene	59		"	50.0		118	80-127		2.02	30	
Tetrachloroethylene	48		"	50.0		97.0	80-129		0.331	30	
Toluene	47		"	50.0		94.5	85-121		0.530	30	
trans-1,2-Dichloroethylene	54		"	50.0		107	72-132		1.15	30	
Trichloroethylene	52		"	50.0		103	84-123		2.79	30	
Vinyl Chloride	44		"	50.0		88.1	52-130		18.4	30	
Surrogate: SURRE: 1,2-Dichloroethane-d4	53.1		"	50.0		106	77-125				
Surrogate: SURRE: Toluene-d8	44.6		"	50.0		89.2	85-120				
Surrogate: SURRE: p-Bromofluorobenzene	47.4		"	50.0		94.8	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit								Limit			

Batch BK81147 - EPA 5035A

Blank (BK81147-BLK1)

Prepared & Analyzed: 11/21/2018

1,1,1-Trichloroethane	ND	5.0	ug/kg wet										
1,1-Dichloroethane	ND	5.0	"										
1,1-Dichloroethylene	ND	5.0	"										
1,2,4-Trimethylbenzene	ND	5.0	"										
1,2-Dichlorobenzene	ND	5.0	"										
1,2-Dichloroethane	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	"										
Acetone	ND	10	"										
Benzene	ND	5.0	"										
Carbon tetrachloride	ND	5.0	"										
Chlorobenzene	ND	5.0	"										
Chloroform	ND	5.0	"										
cis-1,2-Dichloroethylene	ND	5.0	"										
Ethyl Benzene	ND	5.0	"										
Methyl tert-butyl ether (MTBE)	ND	5.0	"										
Methylene chloride	ND	10	"										
Naphthalene	3.0	10	"										
n-Butylbenzene	ND	5.0	"										
n-Propylbenzene	ND	5.0	"										
o-Xylene	ND	5.0	"										
p- & m- Xylenes	ND	10	"										
sec-Butylbenzene	ND	5.0	"										
tert-Butylbenzene	ND	5.0	"										
Tetrachloroethylene	ND	5.0	"										
Toluene	ND	5.0	"										
trans-1,2-Dichloroethylene	ND	5.0	"										
Trichloroethylene	ND	5.0	"										
Vinyl Chloride	ND	5.0	"										
Xylenes, Total	ND	15	"										
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	47.4		ug/L	50.0		94.8		77-125					
<i>Surrogate: SURR: Toluene-d8</i>	51.9		"	50.0		104		85-120					
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	50.5		"	50.0		101		76-130					



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit							Units	Level

Batch BK81147 - EPA 5035A

LCS (BK81147-BS1)

Prepared & Analyzed: 11/21/2018

1,1,1-Trichloroethane	46		ug/L	50.0		92.9	71-137			
1,1-Dichloroethane	51		"	50.0		101	75-130			
1,1-Dichloroethylene	47		"	50.0		93.2	64-137			
1,2,4-Trimethylbenzene	48		"	50.0		96.6	84-125			
1,2-Dichlorobenzene	49		"	50.0		97.6	85-122			
1,2-Dichloroethane	48		"	50.0		95.8	71-133			
1,3,5-Trimethylbenzene	48		"	50.0		96.6	82-126			
1,3-Dichlorobenzene	47		"	50.0		94.8	84-124			
1,4-Dichlorobenzene	46		"	50.0		92.4	84-124			
1,4-Dioxane	1800		"	1050		167	10-228			
2-Butanone	47		"	50.0		93.8	58-147			
Acetone	36		"	50.0		71.1	36-155			
Benzene	52		"	50.0		104	77-127			
Carbon tetrachloride	45		"	50.0		89.8	66-143			
Chlorobenzene	52		"	50.0		103	86-120			
Chloroform	48		"	50.0		95.8	76-131			
cis-1,2-Dichloroethylene	50		"	50.0		99.0	74-132			
Ethyl Benzene	52		"	50.0		104	84-125			
Methyl tert-butyl ether (MTBE)	50		"	50.0		99.7	74-131			
Methylene chloride	47		"	50.0		94.4	57-141			
Naphthalene	41		"	50.0		81.7	86-141		Low Bias	
n-Butylbenzene	48		"	50.0		95.1	80-130			
n-Propylbenzene	49		"	50.0		97.9	74-136			
o-Xylene	52		"	50.0		103	83-123			
p- & m- Xylenes	100		"	100		102	82-128			
sec-Butylbenzene	47		"	50.0		94.7	83-125			
tert-Butylbenzene	40		"	50.0		80.5	80-127			
Tetrachloroethylene	40		"	50.0		79.4	80-129		Low Bias	
Toluene	51		"	50.0		103	85-121			
trans-1,2-Dichloroethylene	49		"	50.0		97.8	72-132			
Trichloroethylene	53		"	50.0		106	84-123			
Vinyl Chloride	45		"	50.0		90.9	52-130			
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>42.8</i>		<i>"</i>	<i>50.0</i>		<i>85.5</i>	<i>77-125</i>			
<i>Surrogate: SURR: Toluene-d8</i>	<i>52.2</i>		<i>"</i>	<i>50.0</i>		<i>104</i>	<i>85-120</i>			
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>48.6</i>		<i>"</i>	<i>50.0</i>		<i>97.2</i>	<i>76-130</i>			



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 BK81147 - EPA 5035A

LCS Dup (BK81147-BSD1)

Prepared & Analyzed: 11/21/2018

1,1,1-Trichloroethane	49		ug/L	50.0		97.3	71-137		4.59	30	
1,1-Dichloroethane	51		"	50.0		103	75-130		1.67	30	
1,1-Dichloroethylene	50		"	50.0		99.7	64-137		6.78	30	
1,2,4-Trimethylbenzene	52		"	50.0		103	84-125		6.72	30	
1,2-Dichlorobenzene	52		"	50.0		104	85-122		6.69	30	
1,2-Dichloroethane	49		"	50.0		98.0	71-133		2.23	30	
1,3,5-Trimethylbenzene	52		"	50.0		103	82-126		6.72	30	
1,3-Dichlorobenzene	50		"	50.0		99.8	84-124		5.16	30	
1,4-Dichlorobenzene	50		"	50.0		99.0	84-124		6.94	30	
1,4-Dioxane	2100		"	1050		204	10-228		19.6	30	
2-Butanone	51		"	50.0		102	58-147		8.55	30	
Acetone	39		"	50.0		77.5	36-155		8.62	30	
Benzene	54		"	50.0		109	77-127		4.41	30	
Carbon tetrachloride	49		"	50.0		97.7	66-143		8.49	30	
Chlorobenzene	51		"	50.0		103	86-120		0.583	30	
Chloroform	51		"	50.0		102	76-131		6.39	30	
cis-1,2-Dichloroethylene	54		"	50.0		108	74-132		8.82	30	
Ethyl Benzene	52		"	50.0		104	84-125		0.212	30	
Methyl tert-butyl ether (MTBE)	54		"	50.0		108	74-131		7.73	30	
Methylene chloride	50		"	50.0		101	57-141		6.64	30	
Naphthalene	42		"	50.0		84.3	86-141	Low Bias	3.13	30	
n-Butylbenzene	49		"	50.0		97.3	80-130		2.31	30	
n-Propylbenzene	53		"	50.0		106	74-136		7.85	30	
o-Xylene	52		"	50.0		105	83-123		1.25	30	
p- & m- Xylenes	100		"	100		104	82-128		2.06	30	
sec-Butylbenzene	49		"	50.0		98.4	83-125		3.85	30	
tert-Butylbenzene	42		"	50.0		84.8	80-127		5.25	30	
Tetrachloroethylene	44		"	50.0		87.4	80-129		9.54	30	
Toluene	52		"	50.0		105	85-121		1.54	30	
trans-1,2-Dichloroethylene	51		"	50.0		102	72-132		4.30	30	
Trichloroethylene	54		"	50.0		108	84-123		1.33	30	
Vinyl Chloride	47		"	50.0		93.4	52-130		2.69	30	
Surrogate: SURRE: 1,2-Dichloroethane-d4	44.9		"	50.0		89.9	77-125				
Surrogate: SURRE: Toluene-d8	50.1		"	50.0		100	85-120				
Surrogate: SURRE: p-Bromofluorobenzene	48.8		"	50.0		97.6	76-130				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit	Units							Level	Result

Batch BK81022 - EPA 3550C

Blank (BK81022-BLK1)

Prepared: 11/19/2018 Analyzed: 11/20/2018

2-Methylphenol	ND	41.7	ug/kg wet								
3- & 4-Methylphenols	ND	41.7	"								
Acenaphthene	ND	41.7	"								
Acenaphthylene	ND	41.7	"								
Anthracene	ND	41.7	"								
Benzo(a)anthracene	ND	41.7	"								
Benzo(a)pyrene	ND	41.7	"								
Benzo(b)fluoranthene	ND	41.7	"								
Benzo(g,h,i)perylene	ND	41.7	"								
Benzo(k)fluoranthene	ND	41.7	"								
Chrysene	ND	41.7	"								
Dibenzo(a,h)anthracene	ND	41.7	"								
Dibenzofuran	ND	41.7	"								
Fluoranthene	ND	41.7	"								
Fluorene	ND	41.7	"								
Hexachlorobenzene	ND	41.7	"								
Indeno(1,2,3-cd)pyrene	ND	41.7	"								
Naphthalene	ND	41.7	"								
Pentachlorophenol	ND	41.7	"								
Phenanthrene	ND	41.7	"								
Phenol	ND	41.7	"								
Pyrene	ND	41.7	"								
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Surrogate: SURR: 2-Fluorophenol	1270		"	1670		76.2		20-108			
Surrogate: SURR: Phenol-d5	1130		"	1670		68.0		23-114			
Surrogate: SURR: Nitrobenzene-d5	551		"	833		66.1		22-108			
Surrogate: SURR: 2-Fluorobiphenyl	737		"	833		88.5		21-113			
Surrogate: SURR: 2,4,6-Tribromophenol	2320		"	1670		139		19-110			
Surrogate: SURR: Terphenyl-d14	974		"	833		117		24-116			



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit	Units							Level	Result

Batch BK81022 - EPA 3550C

LCS (BK81022-BS1)

Prepared: 11/19/2018 Analyzed: 11/20/2018

2-Methylphenol	646	41.7	ug/kg wet	833		77.5	10-146				
3- & 4-Methylphenols	573	41.7	"	833		68.8	20-109				
Acenaphthene	702	41.7	"	833		84.3	17-124				
Acenaphthylene	720	41.7	"	833		86.4	16-124				
Anthracene	784	41.7	"	833		94.0	24-124				
Benzo(a)anthracene	838	41.7	"	833		101	25-134				
Benzo(a)pyrene	930	41.7	"	833		112	29-144				
Benzo(b)fluoranthene	929	41.7	"	833		111	20-151				
Benzo(g,h,i)perylene	820	41.7	"	833		98.4	10-153				
Benzo(k)fluoranthene	817	41.7	"	833		98.0	10-148				
Chrysene	791	41.7	"	833		94.9	24-116				
Dibenzo(a,h)anthracene	857	41.7	"	833		103	17-147				
Dibenzofuran	705	41.7	"	833		84.6	23-123				
Fluoranthene	785	41.7	"	833		94.2	36-125				
Fluorene	743	41.7	"	833		89.2	16-130				
Hexachlorobenzene	560	41.7	"	833		67.2	10-129				
Indeno(1,2,3-cd)pyrene	827	41.7	"	833		99.2	10-155				
Naphthalene	732	41.7	"	833		87.9	20-121				
Pentachlorophenol	431	41.7	"	833		51.7	10-143				
Phenanthrene	774	41.7	"	833		92.9	24-123				
Phenol	658	41.7	"	833		79.0	15-123				
Pyrene	809	41.7	"	833		97.1	24-132				
Surrogate: SURR: 2-Fluorophenol	1240		"	1670		74.7	20-108				
Surrogate: SURR: Phenol-d5	1110		"	1670		66.4	23-114				
Surrogate: SURR: Nitrobenzene-d5	485		"	833		58.2	22-108				
Surrogate: SURR: 2-Fluorobiphenyl	681		"	833		81.7	21-113				
Surrogate: SURR: 2,4,6-Tribromophenol	2100		"	1670		126	19-110				
Surrogate: SURR: Terphenyl-d14	891		"	833		107	24-116				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit								Limit			

Batch BK81058 - EPA 3550C

Blank (BK81058-BLK1)

Prepared & Analyzed: 11/20/2018

2-Methylphenol	ND	41.7	ug/kg wet										
3- & 4-Methylphenols	ND	41.7	"										
Acenaphthene	ND	41.7	"										
Acenaphthylene	ND	41.7	"										
Anthracene	ND	41.7	"										
Benzo(a)anthracene	ND	41.7	"										
Benzo(a)pyrene	ND	41.7	"										
Benzo(b)fluoranthene	ND	41.7	"										
Benzo(g,h,i)perylene	ND	41.7	"										
Benzo(k)fluoranthene	ND	41.7	"										
Chrysene	ND	41.7	"										
Dibenzo(a,h)anthracene	ND	41.7	"										
Dibenzofuran	ND	41.7	"										
Fluoranthene	ND	41.7	"										
Fluorene	ND	41.7	"										
Hexachlorobenzene	ND	41.7	"										
Indeno(1,2,3-cd)pyrene	ND	41.7	"										
Naphthalene	ND	41.7	"										
Pentachlorophenol	ND	41.7	"										
Phenanthrene	ND	41.7	"										
Phenol	ND	41.7	"										
Pyrene	ND	41.7	"										
<hr/>													
Surrogate: SURR: 2-Fluorophenol	1290		"	1670		77.3		20-108					
Surrogate: SURR: Phenol-d5	1210		"	1670		72.5		23-114					
Surrogate: SURR: Nitrobenzene-d5	681		"	833		81.7		22-108					
Surrogate: SURR: 2-Fluorobiphenyl	691		"	833		82.9		21-113					
Surrogate: SURR: 2,4,6-Tribromophenol	1710		"	1670		103		19-110					
Surrogate: SURR: Terphenyl-d14	730		"	833		87.6		24-116					



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit	Units							Level	Result

Batch BK81058 - EPA 3550C

LCS (BK81058-BS1)

Prepared & Analyzed: 11/20/2018

2-Methylphenol	630	41.7	ug/kg wet	833		75.6		10-146			
3- & 4-Methylphenols	531	41.7	"	833		63.7		20-109			
Acenaphthene	639	41.7	"	833		76.7		17-124			
Acenaphthylene	640	41.7	"	833		76.8		16-124			
Anthracene	673	41.7	"	833		80.7		24-124			
Benzo(a)anthracene	671	41.7	"	833		80.6		25-134			
Benzo(a)pyrene	771	41.7	"	833		92.5		29-144			
Benzo(b)fluoranthene	731	41.7	"	833		87.7		20-151			
Benzo(g,h,i)perylene	825	41.7	"	833		99.0		10-153			
Benzo(k)fluoranthene	740	41.7	"	833		88.8		10-148			
Chrysene	680	41.7	"	833		81.6		24-116			
Dibenzo(a,h)anthracene	821	41.7	"	833		98.5		17-147			
Dibenzofuran	687	41.7	"	833		82.4		23-123			
Fluoranthene	688	41.7	"	833		82.6		36-125			
Fluorene	666	41.7	"	833		80.0		16-130			
Hexachlorobenzene	572	41.7	"	833		68.6		10-129			
Indeno(1,2,3-cd)pyrene	875	41.7	"	833		105		10-155			
Naphthalene	717	41.7	"	833		86.0		20-121			
Pentachlorophenol	605	41.7	"	833		72.6		10-143			
Phenanthrene	714	41.7	"	833		85.6		24-123			
Phenol	651	41.7	"	833		78.2		15-123			
Pyrene	618	41.7	"	833		74.2		24-132			
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Surrogate: SURR: 2-Fluorophenol	1240		"	1670		74.7		20-108			
Surrogate: SURR: Phenol-d5	1160		"	1670		69.6		23-114			
Surrogate: SURR: Nitrobenzene-d5	606		"	833		72.8		22-108			
Surrogate: SURR: 2-Fluorobiphenyl	694		"	833		83.3		21-113			
Surrogate: SURR: 2,4,6-Tribromophenol	1600		"	1670		96.2		19-110			
Surrogate: SURR: Terphenyl-d14	698		"	833		83.7		24-116			



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit	Units							Level	Result

Batch BK81108 - EPA 3550C

Blank (BK81108-BLK1)

Prepared: 11/20/2018 Analyzed: 11/21/2018

2-Methylphenol	ND	41.7	ug/kg wet								
3- & 4-Methylphenols	ND	41.7	"								
Acenaphthene	ND	41.7	"								
Acenaphthylene	ND	41.7	"								
Anthracene	ND	41.7	"								
Benzo(a)anthracene	ND	41.7	"								
Benzo(a)pyrene	ND	41.7	"								
Benzo(b)fluoranthene	ND	41.7	"								
Benzo(g,h,i)perylene	ND	41.7	"								
Benzo(k)fluoranthene	ND	41.7	"								
Chrysene	ND	41.7	"								
Dibenzo(a,h)anthracene	ND	41.7	"								
Dibenzofuran	ND	41.7	"								
Fluoranthene	ND	41.7	"								
Fluorene	ND	41.7	"								
Hexachlorobenzene	ND	41.7	"								
Indeno(1,2,3-cd)pyrene	ND	41.7	"								
Naphthalene	ND	41.7	"								
Pentachlorophenol	ND	41.7	"								
Phenanthrene	ND	41.7	"								
Phenol	ND	41.7	"								
Pyrene	ND	41.7	"								
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Surrogate: SURR: 2-Fluorophenol	1040		"	1670		62.6		20-108			
Surrogate: SURR: Phenol-d5	952		"	1670		57.1		23-114			
Surrogate: SURR: Nitrobenzene-d5	537		"	833		64.4		22-108			
Surrogate: SURR: 2-Fluorobiphenyl	569		"	833		68.2		21-113			
Surrogate: SURR: 2,4,6-Tribromophenol	974		"	1670		58.4		19-110			
Surrogate: SURR: Terphenyl-d14	607		"	833		72.8		24-116			



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit	Units							Level	Result

Batch BK81108 - EPA 3550C

LCS (BK81108-BS1)

Prepared: 11/20/2018 Analyzed: 11/21/2018

2-Methylphenol	527	41.7	ug/kg wet	833		63.2	10-146				
3- & 4-Methylphenols	486	41.7	"	833		58.3	20-109				
Acenaphthene	525	41.7	"	833		63.0	17-124				
Acenaphthylene	534	41.7	"	833		64.1	16-124				
Anthracene	557	41.7	"	833		66.8	24-124				
Benzo(a)anthracene	557	41.7	"	833		66.8	25-134				
Benzo(a)pyrene	545	41.7	"	833		65.4	29-144				
Benzo(b)fluoranthene	564	41.7	"	833		67.7	20-151				
Benzo(g,h,i)perylene	502	41.7	"	833		60.2	10-153				
Benzo(k)fluoranthene	527	41.7	"	833		63.3	10-148				
Chrysene	543	41.7	"	833		65.2	24-116				
Dibenzo(a,h)anthracene	503	41.7	"	833		60.4	17-147				
Dibenzofuran	556	41.7	"	833		66.7	23-123				
Fluoranthene	568	41.7	"	833		68.2	36-125				
Fluorene	544	41.7	"	833		65.3	16-130				
Hexachlorobenzene	488	41.7	"	833		58.5	10-129				
Indeno(1,2,3-cd)pyrene	496	41.7	"	833		59.6	10-155				
Naphthalene	563	41.7	"	833		67.6	20-121				
Pentachlorophenol	531	41.7	"	833		63.8	10-143				
Phenanthrene	571	41.7	"	833		68.6	24-123				
Phenol	527	41.7	"	833		63.2	15-123				
Pyrene	549	41.7	"	833		65.9	24-132				
<i>Surrogate: SURR: 2-Fluorophenol</i>	956		"	1670		57.3	20-108				
<i>Surrogate: SURR: Phenol-d5</i>	899		"	1670		54.0	23-114				
<i>Surrogate: SURR: Nitrobenzene-d5</i>	503		"	833		60.4	22-108				
<i>Surrogate: SURR: 2-Fluorobiphenyl</i>	518		"	833		62.1	21-113				
<i>Surrogate: SURR: 2,4,6-Tribromophenol</i>	966		"	1670		57.9	19-110				
<i>Surrogate: SURR: Terphenyl-d14</i>	547		"	833		65.7	24-116				



Organochlorine Pesticides by GC/ECD - 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 BK80982 - EPA 3550C

Blank (BK80982-BLK1)

Prepared: 11/19/2018 Analyzed: 11/21/2018

4,4'-DDD	ND	0.330	ug/kg wet								
4,4'-DDE	ND	0.330	"								
4,4'-DDT	ND	0.330	"								
Aldrin	ND	0.330	"								
alpha-BHC	ND	0.330	"								
alpha-Chlordane	ND	0.330	"								
beta-BHC	ND	0.330	"								
delta-BHC	ND	0.330	"								
Dieldrin	ND	0.330	"								
Endosulfan I	ND	0.330	"								
Endosulfan II	ND	0.330	"								
Endosulfan sulfate	ND	0.330	"								
Endrin	ND	0.330	"								
gamma-BHC (Lindane)	ND	0.330	"								
Heptachlor	ND	0.330	"								
<i>Surrogate: Decachlorobiphenyl</i>	56.2		"	67.0		83.8	30-150				
<i>Surrogate: Tetrachloro-m-xylene</i>	64.6		"	67.3		95.9	30-150				

LCS (BK80982-BS1)

Prepared: 11/19/2018 Analyzed: 11/21/2018

4,4'-DDD	41.2	0.330	ug/kg wet	33.3		124	40-140				
4,4'-DDE	36.4	0.330	"	33.3		109	40-140				
4,4'-DDT	43.2	0.330	"	33.3		130	40-140				
Aldrin	35.3	0.330	"	33.3		106	40-140				
alpha-BHC	37.3	0.330	"	33.3		112	40-140				
alpha-Chlordane	33.0	0.330	"	33.3		99.0	40-140				
beta-BHC	33.6	0.330	"	33.3		101	40-140				
delta-BHC	35.1	0.330	"	33.3		105	40-140				
Dieldrin	37.2	0.330	"	33.3		112	40-140				
Endosulfan I	40.2	0.330	"	33.3		121	40-140				
Endosulfan II	37.0	0.330	"	33.3		111	40-140				
Endosulfan sulfate	39.0	0.330	"	33.3		117	40-140				
Endrin	36.1	0.330	"	33.3		108	40-140				
gamma-BHC (Lindane)	36.7	0.330	"	33.3		110	40-140				
Heptachlor	31.4	0.330	"	33.3		94.1	40-140				
<i>Surrogate: Decachlorobiphenyl</i>	60.3		"	67.0		90.0	30-150				
<i>Surrogate: Tetrachloro-m-xylene</i>	66.0		"	67.3		98.0	30-150				



Organochlorine Pesticides by GC/ECD - 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 BK80982 - EPA 3550C

Matrix Spike (BK80982-MS1)	*Source sample: 18K0528-12 (SB-59C)					Prepared: 11/19/2018 Analyzed: 11/22/2018					
4,4'-DDD	4.76	0.330	ug/kg dry	34.4	ND	13.8	30-150	Low Bias			
4,4'-DDE	3.96	0.330	"	34.4	ND	11.5	30-150	Low Bias			
4,4'-DDT	4.21	0.330	"	34.4	ND	12.2	30-150	Low Bias			
Aldrin	4.02	0.330	"	34.4	ND	11.7	30-150	Low Bias			
alpha-BHC	3.77	0.330	"	34.4	ND	10.9	30-150	Low Bias			
alpha-Chlordane	4.45	0.330	"	34.4	ND	12.9	30-150	Low Bias			
beta-BHC	4.56	0.330	"	34.4	ND	13.3	30-150	Low Bias			
delta-BHC	3.74	0.330	"	34.4	ND	10.9	30-150	Low Bias			
Dieldrin	4.20	0.330	"	34.4	ND	12.2	30-150	Low Bias			
Endosulfan I	5.39	0.330	"	34.4	ND	15.7	30-150	Low Bias			
Endosulfan II	4.38	0.330	"	34.4	ND	12.7	30-150	Low Bias			
Endosulfan sulfate	4.02	0.330	"	34.4	ND	11.7	30-150	Low Bias			
Endrin	4.60	0.330	"	34.4	ND	13.4	30-150	Low Bias			
gamma-BHC (Lindane)	4.29	0.330	"	34.4	ND	12.5	30-150	Low Bias			
Heptachlor	3.93	0.330	"	34.4	ND	11.4	30-150	Low Bias			
Surrogate: Decachlorobiphenyl	7.99		"	69.1		11.6	30-150				
Surrogate: Tetrachloro-m-xylene	8.68		"	69.5		12.5	30-150				

Matrix Spike Dup (BK80982-MSD1)	*Source sample: 18K0528-12 (SB-59C)					Prepared: 11/19/2018 Analyzed: 11/22/2018					
4,4'-DDD	5.37	0.330	ug/kg dry	34.4	ND	15.6	30-150	Low Bias	11.9	30	
4,4'-DDE	5.70	0.330	"	34.4	ND	16.6	30-150	Low Bias	36.0	30	Non-dir.
4,4'-DDT	4.42	0.330	"	34.4	ND	12.9	30-150	Low Bias	4.88	30	
Aldrin	5.40	0.330	"	34.4	ND	15.7	30-150	Low Bias	29.3	30	
alpha-BHC	5.19	0.330	"	34.4	ND	15.1	30-150	Low Bias	31.9	30	Non-dir.
alpha-Chlordane	5.42	0.330	"	34.4	ND	15.7	30-150	Low Bias	19.6	30	
beta-BHC	5.56	0.330	"	34.4	ND	16.2	30-150	Low Bias	19.7	30	
delta-BHC	4.45	0.330	"	34.4	ND	12.9	30-150	Low Bias	17.4	30	
Dieldrin	5.44	0.330	"	34.4	ND	15.8	30-150	Low Bias	25.7	30	
Endosulfan I	6.90	0.330	"	34.4	ND	20.1	30-150	Low Bias	24.6	30	
Endosulfan II	5.25	0.330	"	34.4	ND	15.3	30-150	Low Bias	18.2	30	
Endosulfan sulfate	4.90	0.330	"	34.4	ND	14.3	30-150	Low Bias	19.7	30	
Endrin	5.77	0.330	"	34.4	ND	16.8	30-150	Low Bias	22.6	30	
gamma-BHC (Lindane)	5.72	0.330	"	34.4	ND	16.6	30-150	Low Bias	28.5	30	
Heptachlor	5.22	0.330	"	34.4	ND	15.2	30-150	Low Bias	28.0	30	
Surrogate: Decachlorobiphenyl	9.91		"	69.1		14.3	30-150				
Surrogate: Tetrachloro-m-xylene	11.7		"	69.5		16.9	30-150				



Organochlorine Pesticides by GC/ECD - 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 BK81060 - EPA 3550C

Blank (BK81060-BLK1)

Prepared & Analyzed: 11/20/2018

4,4'-DDD	ND	0.330	ug/kg wet								
4,4'-DDE	ND	0.330	"								
4,4'-DDT	ND	0.330	"								
Aldrin	ND	0.330	"								
alpha-BHC	ND	0.330	"								
alpha-Chlordane	ND	0.330	"								
beta-BHC	ND	0.330	"								
delta-BHC	ND	0.330	"								
Dieldrin	ND	0.330	"								
Endosulfan I	ND	0.330	"								
Endosulfan II	ND	0.330	"								
Endosulfan sulfate	ND	0.330	"								
Endrin	ND	0.330	"								
gamma-BHC (Lindane)	ND	0.330	"								
Heptachlor	ND	0.330	"								

Surrogate: Decachlorobiphenyl

51.2

"

67.0

76.5

30-150

Surrogate: Tetrachloro-m-xylene

68.6

"

67.3

102

30-150

LCS (BK81060-BS1)

Prepared & Analyzed: 11/20/2018

4,4'-DDD	37.7	0.330	ug/kg wet	33.3		113	40-140				
4,4'-DDE	38.7	0.330	"	33.3		116	40-140				
4,4'-DDT	36.0	0.330	"	33.3		108	40-140				
Aldrin	36.7	0.330	"	33.3		110	40-140				
alpha-BHC	38.5	0.330	"	33.3		116	40-140				
alpha-Chlordane	33.9	0.330	"	33.3		102	40-140				
beta-BHC	35.3	0.330	"	33.3		106	40-140				
delta-BHC	37.8	0.330	"	33.3		113	40-140				
Dieldrin	36.7	0.330	"	33.3		110	40-140				
Endosulfan I	40.4	0.330	"	33.3		121	40-140				
Endosulfan II	35.2	0.330	"	33.3		106	40-140				
Endosulfan sulfate	37.3	0.330	"	33.3		112	40-140				
Endrin	36.1	0.330	"	33.3		108	40-140				
gamma-BHC (Lindane)	37.8	0.330	"	33.3		114	40-140				
Heptachlor	33.9	0.330	"	33.3		102	40-140				

Surrogate: Decachlorobiphenyl

60.1

"

67.0

89.6

30-150

Surrogate: Tetrachloro-m-xylene

68.5

"

67.3

102

30-150



Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit								Limit			

Batch Y8K2305 - BH80158

Performance Mix (Y8K2305-PEM2)

Prepared: 11/20/2018 Analyzed: 11/21/2018

4,4'-DDD	0.00		ng/mL	0.00				0-200					
4,4'-DDE	0.643		"	0.00				0-200					
4,4'-DDT	167		"	200		83.5		0-200					
Endrin	95.5		"	100		95.5		0-200					

Batch Y8K2306 - BH80158

Performance Mix (Y8K2306-PEM1)

Prepared: 11/20/2018 Analyzed: 11/21/2018

4,4'-DDD	0.00		ng/mL	0.00				0-200					
4,4'-DDE	0.00		"	0.00				0-200					
4,4'-DDT	153		"	200		76.6		0-200					
Endrin	89.1		"	100		89.1		0-200					



Polychlorinated Biphenyls by GC/ECD - 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 BK81060 - EPA 3550C

Blank (BK81060-BLK1)

Prepared & Analyzed: 11/20/2018

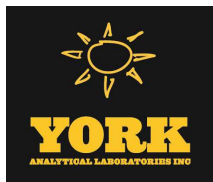
Aroclor 1016	ND	0.0167	mg/kg wet								
Aroclor 1221	ND	0.0167	"								
Aroclor 1232	ND	0.0167	"								
Aroclor 1242	ND	0.0167	"								
Aroclor 1248	ND	0.0167	"								
Aroclor 1254	ND	0.0167	"								
Aroclor 1260	ND	0.0167	"								
Total PCBs	ND	0.0167	"								

<i>Surrogate: Tetrachloro-m-xylene</i>	0.0673		"	0.0673		100	30-140				
<i>Surrogate: Decachlorobiphenyl</i>	0.0423		"	0.0670		63.2	30-140				

LCS (BK81060-BS2)

Prepared & Analyzed: 11/20/2018

Aroclor 1016	0.297	0.0167	mg/kg wet	0.333		89.1	40-130				
Aroclor 1260	0.315	0.0167	"	0.333		94.6	40-130				
<i>Surrogate: Tetrachloro-m-xylene</i>	0.0667		"	0.0673		99.0	30-140				
<i>Surrogate: Decachlorobiphenyl</i>	0.0480		"	0.0670		71.6	30-140				



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit								RPD	Limit

Batch BK80842 - EPA 3050B

Blank (BK80842-BLK1)

Prepared: 11/15/2018 Analyzed: 11/20/2018

Aluminum	ND	5.00	mg/kg wet
Antimony	ND	2.50	"
Arsenic	ND	1.50	"
Barium	ND	2.50	"
Beryllium	ND	0.050	"
Cadmium	ND	0.300	"
Calcium	ND	5.00	"
Chromium	ND	0.500	"
Cobalt	ND	0.400	"
Copper	ND	2.00	"
Iron	ND	25.0	"
Lead	ND	0.500	"
Magnesium	ND	5.00	"
Manganese	ND	0.500	"
Nickel	ND	1.00	"
Potassium	ND	5.00	"
Selenium	ND	2.50	"
Silver	ND	0.500	"
Sodium	ND	50.0	"
Thallium	ND	2.50	"
Vanadium	ND	1.00	"
Zinc	ND	2.50	"

Duplicate (BK80842-DUP1)

*Source sample: 18K0528-22 (SB-64B)

Prepared: 11/15/2018 Analyzed: 11/20/2018

Aluminum	6160	5.59	mg/kg dry	7640	21.4	35	
Antimony	ND	2.79	"	ND		35	
Arsenic	8.41	1.68	"	8.18	2.88	35	
Barium	443	2.79	"	740	50.3	35	Non-dir.
Beryllium	ND	0.056	"	ND		35	
Cadmium	1.13	0.335	"	1.42	22.5	35	
Calcium	42000	5.59	"	48500	14.3	35	
Chromium	17.9	0.559	"	25.8	36.0	35	Non-dir.
Cobalt	6.01	0.447	"	7.33	19.7	35	
Copper	154	2.23	"	54.7	95.2	35	Non-dir.
Iron	18600	27.9	"	19900	6.43	35	
Lead	536	0.559	"	686	24.6	35	
Magnesium	5670	5.59	"	5400	4.89	35	
Manganese	294	0.559	"	299	1.67	35	
Nickel	56.9	1.12	"	20.7	93.4	35	Non-dir.
Potassium	1180	5.59	"	1600	30.3	35	
Selenium	ND	2.79	"	ND		35	
Silver	ND	0.559	"	ND		35	
Sodium	540	55.9	"	757	33.4	35	
Thallium	ND	2.79	"	ND		35	
Vanadium	18.9	1.12	"	24.7	27.0	35	
Zinc	442	2.79	"	572	25.8	35	



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit								Level	Result

Batch BK80842 - EPA 3050B

Matrix Spike (BK80842-MS1) *Source sample: 18K0528-22 (SB-64B) Prepared: 11/15/2018 Analyzed: 11/20/2018

Aluminum	6810	5.59	mg/kg dry	223	7640	NR	75-125	Low Bias
Antimony	17.3	2.79	"	27.9	ND	61.8	75-125	Low Bias
Arsenic	224	1.68	"	223	8.18	96.8	75-125	
Barium	604	2.79	"	223	740	NR	75-125	Low Bias
Beryllium	5.31	0.056	"	5.59	ND	95.1	75-125	
Cadmium	6.54	0.335	"	5.59	1.42	91.7	75-125	
Chromium	42.5	0.559	"	22.3	25.8	75.0	75-125	
Cobalt	67.9	0.447	"	55.9	7.33	108	75-125	
Copper	137	2.23	"	27.9	54.7	295	75-125	High Bias
Iron	22600	27.9	"	112	19900	NR	75-125	High Bias
Lead	2280	0.559	"	55.9	686	NR	75-125	High Bias
Magnesium	4470	5.59	"	112	5400	NR	75-125	Low Bias
Manganese	336	0.559	"	55.9	299	66.3	75-125	Low Bias
Nickel	87.1	1.12	"	55.9	20.7	119	75-125	
Potassium	1830	5.59	"	112	1600	206	75-125	High Bias
Selenium	171	2.79	"	223	ND	76.7	75-125	
Silver	3.23	0.559	"	5.59	ND	57.9	75-125	Low Bias
Sodium	611	55.9	"	112	757	NR	75-125	Low Bias
Thallium	209	2.79	"	223	ND	93.5	75-125	
Vanadium	78.0	1.12	"	55.9	24.7	95.3	75-125	
Zinc	555	2.79	"	55.9	572	NR	75-125	Low Bias

Reference (BK80842-SRM1)

Prepared: 11/15/2018 Analyzed: 11/20/2018

Aluminum	6560	5.00	mg/kg wet	8360		78.5	39.4-160.5	
Antimony	63.7	2.50	"	75.5		84.4	25.1-275.7	
Arsenic	148	1.50	"	161		92.2	69.9-132.9	
Barium	233	2.50	"	260		89.8	71.5-136.3	
Beryllium	96.9	0.050	"	97.6		99.3	75.4-138.1	
Cadmium	209	0.300	"	211		99.1	73.3-141.5	
Calcium	4440	5.00	"	4760		93.4	73.7-136.1	
Chromium	128	0.500	"	136		94.5	69.1-143.3	
Cobalt	49.4	0.400	"	48.2		102	74.6-142	
Copper	170	2.00	"	166		103	72.7-141.6	
Iron	9580	25.0	"	14100		67.9	35.6-163.9	
Lead	102	0.500	"	111		91.8	70.8-137.1	
Magnesium	2040	5.00	"	2340		87.1	63.6-136.1	
Manganese	211	0.500	"	228		92.5	75.7-134.3	
Nickel	102	1.00	"	91.9		111	70.7-146.3	
Potassium	1820	5.00	"	2020		90.3	59.8-140.2	
Selenium	158	2.50	"	191		82.7	67.1-136.8	
Silver	41.1	0.500	"	43.3		94.9	66.5-139.5	
Sodium	225	50.0	"	218		103	40.6-159.8	
Thallium	156	2.50	"	156		100	68-136.2	
Vanadium	45.5	1.00	"	56.7		80.3	58.9-141.8	
Zinc	185	2.50	"	199		93.1	69.5-131.1	



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Flag	RPD	RPD	
		Limit								Limit	Flag

Batch BK80843 - EPA 3050B

Blank (BK80843-BLK1)

Prepared: 11/15/2018 Analyzed: 11/16/2018

Aluminum	48.2	5.00	mg/kg wet								
Antimony	ND	2.50	"								
Arsenic	1.55	1.50	"								
Barium	ND	2.50	"								
Beryllium	ND	0.050	"								
Cadmium	ND	0.300	"								
Calcium	ND	5.00	"								
Chromium	ND	0.500	"								
Cobalt	ND	0.400	"								
Copper	ND	2.00	"								
Iron	ND	25.0	"								
Lead	ND	0.500	"								
Magnesium	ND	5.00	"								
Manganese	ND	0.500	"								
Nickel	ND	1.00	"								
Potassium	ND	5.00	"								
Selenium	ND	2.50	"								
Silver	ND	0.500	"								
Sodium	ND	50.0	"								
Thallium	ND	2.50	"								
Vanadium	ND	1.00	"								
Zinc	7.00	2.50	"								

Reference (BK80843-SRM1)

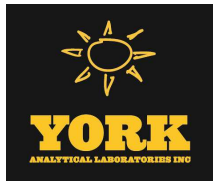
Prepared: 11/15/2018 Analyzed: 11/16/2018

Aluminum	6740	5.00	mg/kg wet	8360	80.6	39.4-160.5
Antimony	68.1	2.50	"	75.5	90.1	25.1-275.7
Arsenic	170	1.50	"	161	106	69.9-132.9
Barium	262	2.50	"	260	101	71.5-136.3
Beryllium	103	0.050	"	97.6	106	75.4-138.1
Cadmium	221	0.300	"	211	105	73.3-141.5
Calcium	4880	5.00	"	4760	102	73.7-136.1
Chromium	139	0.500	"	136	102	69.1-143.3
Cobalt	54.8	0.400	"	48.2	114	74.6-142
Copper	185	2.00	"	166	112	72.7-141.6
Iron	11100	25.0	"	14100	78.5	35.6-163.9
Lead	119	0.500	"	111	107	70.8-137.1
Magnesium	2280	5.00	"	2340	97.6	63.6-136.1
Manganese	254	0.500	"	228	111	75.7-134.3
Nickel	112	1.00	"	91.9	122	70.7-146.3
Potassium	2020	5.00	"	2020	99.9	59.8-140.2
Selenium	171	2.50	"	191	89.4	67.1-136.8
Silver	44.5	0.500	"	43.3	103	66.5-139.5
Sodium	219	50.0	"	218	101	40.6-159.8
Thallium	157	2.50	"	156	101	68-136.2
Vanadium	50.3	1.00	"	56.7	88.7	58.9-141.8
Zinc	191	2.50	"	199	96.0	69.5-131.1



Mercury by EPA 7000/200 Series Methods - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK80835 - EPA 7473 soil											
Blank (BK80835-BLK1)										Prepared & Analyzed: 11/15/2018	
Mercury	ND	0.0300	mg/kg wet								
Duplicate (BK80835-DUP1)										*Source sample: 18K0528-11 (SB-59B) Prepared & Analyzed: 11/15/2018	
Mercury	0.776	0.0329	mg/kg dry		0.734				5.64	35	
Matrix Spike (BK80835-MS1)										*Source sample: 18K0528-11 (SB-59B) Prepared & Analyzed: 11/15/2018	
Mercury	1.02		mg/kg	0.500	0.670	69.8	75-125	Low Bias			
Reference (BK80835-SRM1)										Prepared & Analyzed: 11/15/2018	
Mercury	11.016		mg/kg	13.8		79.8	57.1-143.5				
Batch BK80836 - EPA 7473 soil											
Blank (BK80836-BLK1)										Prepared & Analyzed: 11/15/2018	
Mercury	ND	0.0300	mg/kg wet								
Duplicate (BK80836-DUP1)										*Source sample: 18K0528-13 (SB-60A) Prepared & Analyzed: 11/15/2018	
Mercury	0.436	0.0316	mg/kg dry		0.339				24.9	35	
Matrix Spike (BK80836-MS1)										*Source sample: 18K0528-13 (SB-60A) Prepared & Analyzed: 11/15/2018	
Mercury	0.781		mg/kg	0.500	0.322	91.8	75-125				
Reference (BK80836-SRM1)										Prepared & Analyzed: 11/15/2018	
Mercury	11.339		mg/kg	13.8		82.2	57.1-143.5				



Miscellaneous Physical Parameters - 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 BK81020 - % Solids Prep

Duplicate (BK81020-DUP1)	*Source sample: 18K0528-01 (SB-56A)						Prepared & Analyzed: 11/19/2018				
% Solids	88.1	0.100	%		88.2				0.213	20	



Wet Chemistry Parameters - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK80994 - EPA SW846-3060											
Blank (BK80994-BLK1)										Prepared & Analyzed: 11/19/2018	
Chromium, Hexavalent	ND	0.500	mg/kg wet								
Duplicate (BK80994-DUP1) *Source sample: 18K0528-01 (SB-56A)										Prepared & Analyzed: 11/19/2018	
Chromium, Hexavalent	ND	0.567	mg/kg dry		2.72					35	
Matrix Spike (BK80994-MS1) *Source sample: 18K0528-01 (SB-56A)										Prepared & Analyzed: 11/19/2018	
Chromium, Hexavalent	14.2	0.567	mg/kg dry	22.7	2.72	50.6	75-125	Low Bias			
Reference (BK80994-SRM1)										Prepared & Analyzed: 11/19/2018	
Chromium, Hexavalent	23.8		mg/L	76.9		30.9	20.3-212				
Batch BK81066 - Analysis Preparation Soil											
Blank (BK81066-BLK1)										Prepared & Analyzed: 11/20/2018	
Cyanide, total	ND	0.500	mg/kg wet								
LCS (BK81066-BS1)										Prepared & Analyzed: 11/20/2018	
Cyanide, total	43.2		ug/mL	41.4		104	72.9-112				
Batch BK81067 - EPA SW846-3060											
Blank (BK81067-BLK1)										Prepared & Analyzed: 11/20/2018	
Chromium, Hexavalent	ND	0.500	mg/kg wet								
Reference (BK81067-SRM1)										Prepared & Analyzed: 11/20/2018	
Chromium, Hexavalent	37.2		mg/L	76.9		48.3	20.3-212				



Wet Chemistry Parameters - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK81138 - Analysis Preparation Soil											
Blank (BK81138-BLK1)											Prepared & Analyzed: 11/21/2018
Cyanide, total	ND	0.500	mg/kg wet								
LCS (BK81138-BS1)											Prepared & Analyzed: 11/21/2018
Cyanide, total	41.9		ug/mL	41.4		101	72.9-112				
Duplicate (BK81138-DUP1)											Prepared & Analyzed: 11/21/2018
*Source sample: 18K0528-28 (SB-67B)											
Cyanide, total	ND	0.562	mg/kg dry		0.742						15
Matrix Spike (BK81138-MS1)											Prepared & Analyzed: 11/21/2018
*Source sample: 18K0528-28 (SB-67B)											
Cyanide, total	9.77	0.562	mg/kg dry	11.2	0.742	80.4	79.6-107				
Batch BK81139 - Analysis Preparation Soil											
Blank (BK81139-BLK1)											Prepared & Analyzed: 11/21/2018
Cyanide, total	ND	0.500	mg/kg wet								
LCS (BK81139-BS1)											Prepared & Analyzed: 11/21/2018
Cyanide, total	42.1		ug/mL	41.4		102	72.9-112				
Batch BK81145 - EPA SW846-3060											
Blank (BK81145-BLK1)											Prepared & Analyzed: 11/21/2018
Chromium, Hexavalent	ND	0.500	mg/kg wet								
Duplicate (BK81145-DUP1)											Prepared & Analyzed: 11/21/2018
*Source sample: 18K0528-32 (SB-69B)											
Chromium, Hexavalent	ND	0.542	mg/kg dry		ND						35



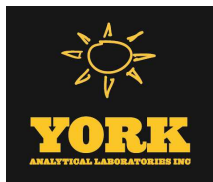
Wet Chemistry Parameters - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK81145 - EPA SW846-3060											
Matrix Spike (BK81145-MS1)		*Source sample: 18K0528-32 (SB-69B)					Prepared & Analyzed: 11/21/2018				
Chromium, Hexavalent	5.33	0.542	mg/kg dry	21.7	ND	24.6	75-125	Low Bias			
Reference (BK81145-SRM1)							Prepared & Analyzed: 11/21/2018				
Chromium, Hexavalent	37.2		mg/L	76.9		48.3	20.3-212				
Batch BK81229 - Analysis Preparation Soil											
Blank (BK81229-BLK1)							Prepared & Analyzed: 11/26/2018				
Cyanide, total	ND	0.500	mg/kg wet								
LCS (BK81229-BS1)							Prepared & Analyzed: 11/26/2018				
Cyanide, total	44.4		ug/mL	41.4		107	72.9-112				



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
18K0528-01	SB-56A	40mL Vial with Stir Bar-Cool 4° C
18K0528-02	SB-56B	40mL Vial with Stir Bar-Cool 4° C
18K0528-03	SB-56C	40mL Vial with Stir Bar-Cool 4° C
18K0528-04	SB-57A	40mL Vial with Stir Bar-Cool 4° C
18K0528-05	SB-57B	40mL Vial with Stir Bar-Cool 4° C
18K0528-06	SB-57C	40mL Vial with Stir Bar-Cool 4° C
18K0528-07	SB-58A	40mL Vial with Stir Bar-Cool 4° C
18K0528-08	SB-58B	40mL Vial with Stir Bar-Cool 4° C
18K0528-09	SB-58C	40mL Vial with Stir Bar-Cool 4° C
18K0528-10	SB-59A	40mL Vial with Stir Bar-Cool 4° C
18K0528-11	SB-59B	40mL Vial with Stir Bar-Cool 4° C
18K0528-12	SB-59C	40mL Vial with Stir Bar-Cool 4° C
18K0528-13	SB-60A	40mL Vial with Stir Bar-Cool 4° C
18K0528-14	SB-60B	40mL Vial with Stir Bar-Cool 4° C
18K0528-15	SB-60C	40mL Vial with Stir Bar-Cool 4° C
18K0528-16	SB-61A	40mL 01_Clear Vial Cool to 4° C
18K0528-17	SB-61B	40mL Vial with Stir Bar-Cool 4° C
18K0528-18	SB-61C	40mL Vial with Stir Bar-Cool 4° C
18K0528-19	SB-62	40mL 01_Clear Vial Cool to 4° C
18K0528-20	SB-63	40mL Vial with Stir Bar-Cool 4° C
18K0528-21	SB-64A	40mL Vial with Stir Bar-Cool 4° C
18K0528-22	SB-64B	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
18K0528-23	SB-65A	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
18K0528-24	SB-65B	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
18K0528-25	SB-66A	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
18K0528-26	SB-66B	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
18K0528-27	SB-67A	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
18K0528-28	SB-67B	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
18K0528-29	SB-68A	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
18K0528-30	SB-68B	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
18K0528-31	SB-69A	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
18K0528-32	SB-69B	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C

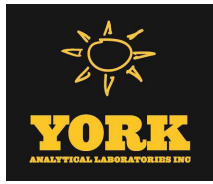


Sample and Data Qualifiers Relating to This Work Order

M-MBLk	Analyte was detected in the batch method blank above the Reporting Limit.
A-01a	Sample is a mix of products. The later product resembles hydraulic fluid. The earlier product resembles kerosene, but is not an exact match.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
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).
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.
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.
M-CRL	The RL check for this element recovered outside of control limits.
A-01	Sample is a mix of products. The later product resembles hydraulic fluid. The earlier product pattern does not match the laboratory's standards, but elutes within the turpentine range of the laboratory's instrumentation.
M-ICV2	The recovery for this element in the ICV was outside the 90-110% recovery criteria.
See attach	See attached
M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
M-SRD1	The serial dilution for this element was outside control 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.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
S-01	The surrogate recovery for this sample may not be available due to sample dilution required from high analyte concentration and/or matrix interferences.
S-08	The recovery of this surrogate was outside of QC limits.
M-DUPS	The RPD between the native sample and the duplicate is outside of limits due to sample non-homogeneity

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.



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120 Research Drive
Stratford, CT 06615
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Field Chain-of-Custody Record

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.
18K0528

Page 1 of 4

YOUR Information		Report To:		Invoice To:		YOUR Project Number		Turn-Around Time	
Company: AST	Company:	Address: 5 MARINE VIEW PLAZA SUITE 401		Company:		37321-STX		RUSH - Next Day	
Address: 5 MARINE VIEW PLAZA SUITE 401	Address:	Phone: 201-876-9400		Address: 27-10 49TH AVE.		YOUR Project Name		RUSH - Two Day	
Phone: 201-876-9400	Phone:	Contact: SEAMUS KELLY		Phone:		27-10 49TH AVE.		RUSH - Three Day	
Contact: SEAMUS KELLY	Contact:	E-mail: SKELLY@SOLUTIONSENVIRONMENTAL.COM		E-mail:		YOUR PO#:		RUSH - Four Day	
E-mail: SKELLY@SOLUTIONSENVIRONMENTAL.COM	E-mail:	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.		E-mail:				Standard (5-7 Day)	

Matrix Codes	Samples From	Report / EDD Type (circle selections)	YORK Reg. Comp.
<input checked="" type="checkbox"/> S - soil / solid	New York	Summary Report	Compared to the following Regulation(s): (please fill in)
<input type="checkbox"/> GW - groundwater	New Jersey	QA Report	Standard Excel EDD
<input type="checkbox"/> DW - drinking water	Connecticut	NY ASP A Package	EquiS (Standard)
<input type="checkbox"/> WW - wastewater	Pennsylvania	<input checked="" type="checkbox"/> NY ASP B Package	<input checked="" type="checkbox"/> NYSDEC EQUiS
<input type="checkbox"/> O - Oil ; Other	Other		<input type="checkbox"/> NJDEP Reduced Deliverables
			<input type="checkbox"/> NJDEP SRP HazSite
			Other:

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
SB-56A	S	11/13 8:17	PORT 375, VOCs, SVOCs, PCBs, PESTICIDES	TAL METALS
SB-56B	S	8:37	including hex. chrom., PFOs.	
SB-56C	S	8:45		
SB-57A	S	8:50		
SB-57B	S	9:16		
SB-57C	S	9:27		
SB-58A	S	9:31		
SB-58B	S	9:51		
SB-58C	S	10:03		
SB-59A	S	10:18		

Comments:

Preservation: (check all that apply)
 HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___
 Ascorbic Acid ___ Other: ___

Samples Relinquished by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Special Instruction
Peteca G	11/14 8:07	11/14/18 gorman	11/14/18	Field Filtered Lab to Filter
		KB Schwick	1805	



YORK
ANALYTICAL LABORATORIES, INC.

York Analytical Laboratories, Inc.
120 Research Drive
Stratford, CT 06615
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

YORK Project No.
18K0528

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.

Page 2 of 4

YOUR Information		Report To:		Invoice To:		YOUR Project Number		Turn-Around Time	
Company: AESI	Company:	Company:	Company:	Company:	Company:	Company:	Company:	RUSH - Next Day	
Address: 5 MARINE VIEW PLAZA SUITE 401	Address:	Address:	Address:	Address:	Address:	Address:	Address:	RUSH - Two Day	
Phone: 201-876-9400	Phone:	Phone:	Phone:	Phone:	Phone:	Phone:	Phone:	RUSH - Three Day	
Contact: SEIMUS KELTY	Contact:	Contact:	Contact:	Contact:	Contact:	Contact:	Contact:	RUSH - Four Day	
E-mail: SKELTY@QUANTIKSENSEENVIRONMENTAL.COM	E-mail:	E-mail:	E-mail:	E-mail:	E-mail:	E-mail:	E-mail:	Standard (5-7 Day)	
<p>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.</p> <p>Samples Collected by: (print your name above and sign below)</p>									
Sample Identification	Sample Matrix	Matrix Codes	Samples From	Report / EDD Type (circle selections)	Analysis Requested	Container Description	YORK Reg. Comp.		
SB-591A	S	S - soil / solid	New York	Summary Report	CT RCP	Standard Excel EDD	Compared to the following Regulation(s). (please fill in)		
SB-591C		GW - groundwater	New Jersey	QA Report	CT RCP DQA/DUE	EQUS (Standard)			
SB-60A		DW - drinking water	Connecticut	NY ASP A Package	NJDEP Reduced Deliverables	NYSPCEQUS			
SB-60B		WW - wastewater	Pennsylvania	NJ ASP B Package	NJDEP SRP HazSite				
SB-60C		O - Oil / Other	Other		NJDKQP	Other:			
SB-61A									
SB-61B									
SB-61C									
SB-62									
SB-63									
<p>Comments:</p> <p>Preservation: (check all that apply) HCl ___ MeOH ___ HNO₃ ___ H₂SO₄ ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other: ___</p>									
Samples Relinquished by / Company		Samples Relinquished by / Company		Samples Relinquished by / Company		Samples Relinquished by / Company		Date/Time	
Rebecca		K. Sabharwal		11/14/18		10/24/18		11/14/18	
Date/Time		Date/Time		Date/Time		Date/Time		Date/Time	
11/14/18		11/14/18		8:07 AM		8:07 AM		1805	
Date/Time		Date/Time		Date/Time		Date/Time		Date/Time	
11/14/18		11/14/18		1805		1805		1.3	
Date/Time		Date/Time		Date/Time		Date/Time		Temp. Received at Lab	
11/14/18		11/14/18		1805		1805		1.3	



York Analytical Laboratories, Inc.
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Stratford, CT 06615
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www.yorklab.com



YOUR INFORMATION

Company: AEST
Address: 5 MARINE VIEW
PIZZA, SUITE 401
Phone: 201-876-9400
Contact: SKELLT

Report To:

Company: [blank]
Address: [blank]
Phone: [blank]
Contact: [blank]
E-mail: [blank]

Invoice To:

Company: [blank]
Address: [blank]
Phone: [blank]
Contact: [blank]
E-mail: [blank]

YOUR PROJECT NUMBER

YOUR PROJECT NAME

Turn-Around Time

RUSH - Next Day
RUSH - Two Day
RUSH - Three Day
RUSH - Four Day
Standard (5-7 Day)

YORK Project No. 18K0528

Page 3 of 4

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Signature: [Handwritten Signature]

Matrix Codes	Samples From	Report / EDD Type (circle selections)	YORK Reg. Comp.
S-solid	New York	CT RCP	Compared to the following Regulation(s): (please fill in)
GW - groundwater	New Jersey	CT RCP DQA/DUE	Standard Excel EDD
DW - drinking water	Connecticut	NY ASP A Package	EQUIS (Standard)
WW - wastewater	Pennsylvania	NY ASP B Package	NYSDEC EQUIS
O - Oil ; Other	Other	NJDEP Reduced Deliverables	NJDEP SRP HazSite
		NJDKQP	Other:

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
SB-64A	S	11/13 13:15	Part 375, VOCs, SVOCs, PCBs, PESTICIDES	TAL me
SB-64B		13:20	PAHs, including hexav. chromium, PFOs	
SB-65A		13:30		
SB-65B		13:35		
SB-66A		13:41		
SB-66B		13:49		
SB-67A		13:57		
SB-67B		14:00		
SB-68A		14:17		
SB-68B		14:20		

Comments:	Preservation: (check all that apply)	Special Instruction
	HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other: ___	Field Filtered ___ Lab to Filter ___
Rebecca G	11/14/18 8:07 AM K. Suberock	11/14/18 1805
	11/14/18 8:07 AM K. Suberock	11/14/18 1805
	TC Suberock 11/14/18 1805	1.3

November 30, 2018

Richard August
York Analytical Labs
120 Research Drive
Stratford, CT 06615

Project Location: 18K0528
Client Job Number:
Project Number: 18K0528
Laboratory Work Order Number: 18K0702

Enclosed are results of analyses for samples received by the laboratory on November 15, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive style with a large, prominent "K" and "M".

Kerry K. McGee
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

York Analytical Labs
 120 Research Drive
 Stratford, CT 06615
 ATTN: Richard August

REPORT DATE: 11/30/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 18K0528

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18K0702

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 18K0528

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB-56A	18K0702-01	Soil		SOP-465 PFAS	
SB-56B	18K0702-02	Soil		SOP-465 PFAS	
SB-56C	18K0702-03	Soil		SOP-465 PFAS	
SB-57A	18K0702-04	Soil		SOP-465 PFAS	
SB-57B	18K0702-05	Soil		SOP-465 PFAS	
SB-57C	18K0702-06	Soil		SOP-465 PFAS	
SB-58A	18K0702-07	Soil		SOP-465 PFAS	
SB-58B	18K0702-08	Soil		SOP-465 PFAS	
SB-58C	18K0702-09	Soil		SOP-465 PFAS	
SB-59A	18K0702-10	Soil		SOP-465 PFAS	
SB-59B	18K0702-11	Soil		SOP-465 PFAS	
SB-59C	18K0702-12	Soil		SOP-465 PFAS	
SB-60A	18K0702-13	Soil		SOP-465 PFAS	
SB-60B	18K0702-14	Soil		SOP-465 PFAS	
SB-60C	18K0702-15	Soil		SOP-465 PFAS	
SB-61A	18K0702-16	Soil		SOP-465 PFAS	
SB-61B	18K0702-17	Soil		SOP-465 PFAS	
SB-61C	18K0702-18	Soil		SOP-465 PFAS	
SB-64A	18K0702-19	Soil		SOP-465 PFAS	
SB-64B	18K0702-20	Soil		SOP-465 PFAS	
SB-65A	18K0702-21	Soil		SOP-465 PFAS	
SB-65B	18K0702-22	Soil		SOP-465 PFAS	
SB-66A	18K0702-23	Soil		SOP-465 PFAS	
SB-66B	18K0702-24	Soil		SOP-465 PFAS	
SB-67A	18K0702-25	Soil		SOP-465 PFAS	
SB-67B	18K0702-26	Soil		SOP-465 PFAS	
SB-68A	18K0702-27	Soil		SOP-465 PFAS	
SB-68B	18K0702-28	Soil		SOP-465 PFAS	
SB-69A	18K0702-29	Soil		SOP-465 PFAS	
SB-69B	18K0702-30	Soil		SOP-465 PFAS	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SOP-465 PFAS

Qualifications:**MS-11**

Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:**Perfluorotetradecanoic acid (PFTA)**

B217814-MSD1

MS-23

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:**Perfluorotetradecanoic acid (PFTA)**

B217814-MSD1

R-02

Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.

Analyte & Samples(s) Qualified:**6:2 Fluorotelomersulfonate (6:2 FT)**

B217814-MSD1

Perfluorobutanesulfonic acid (PFBS)

B217816-MSD1

Perfluorodecanoic acid (PFDA)

B217814-MSD1

Perfluorododecanoic acid (PFDoA)

B217816-MSD1

Perfluorohexanoic acid (PFHxA)

B217814-MSD1

Perfluorooctanesulfonic acid (PFO)

B217814-MSD1

Perfluorooctanoic acid (PFOA)

B217814-MSD1

Perfluoroundecanoic acid (PFUnA)

B217816-MSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**6:2 Fluorotelomersulfonate (6:2 FT)**

S029793-CCV4

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink that reads "Tod Kopycinski". The signature is written in a cursive style with a large, sweeping initial "T".

Tod E. Kopycinski
Laboratory Director

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0528

Sample Description:

Work Order: 18K0702

Date Received: 11/15/2018

Field Sample #: SB-56A

Sampled: 11/13/2018 08:17

Sample ID: 18K0702-01

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 12:53	KAF
Perfluorohexanoic acid (PFHxA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 12:53	KAF
Perfluoroheptanoic acid (PFHpA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 12:53	KAF
Perfluorobutanoic acid (PFBA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 12:53	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 12:53	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 12:53	KAF
Perfluorooctanesulfonamide (FOSA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 12:53	KAF
Perfluoropentanoic acid (PFPeA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 12:53	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 12:53	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 12:53	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 12:53	KAF
Perfluorooctanoic acid (PFOA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 12:53	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 12:53	KAF
Perfluorononanoic acid (PFNA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 12:53	KAF
Perfluorodecanoic acid (PFDA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 12:53	KAF
NMeFOSAA	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 12:53	KAF
Perfluoroundecanoic acid (PFUnA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 12:53	KAF
NEtFOSAA	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 12:53	KAF
Perfluorododecanoic acid (PFDoA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 12:53	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 12:53	KAF
Perfluorotetradecanoic acid (PFTA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 12:53	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		88.1	70-130					11/28/18 12:53	
13C-PFDA		96.3	70-130					11/28/18 12:53	
d5-NEtFOSAA		93.6	70-130					11/28/18 12:53	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0528

Sample Description:

Work Order: 18K0702

Date Received: 11/15/2018

Field Sample #: SB-56B

Sampled: 11/13/2018 08:37

Sample ID: 18K0702-02

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:05	KAF
Perfluorohexanoic acid (PFHxA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:05	KAF
Perfluoroheptanoic acid (PFHpA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:05	KAF
Perfluorobutanoic acid (PFBA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:05	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:05	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:05	KAF
Perfluorooctanesulfonamide (FOSA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:05	KAF
Perfluoropentanoic acid (PFPeA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:05	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:05	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:05	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:05	KAF
Perfluorooctanoic acid (PFOA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:05	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:05	KAF
Perfluorononanoic acid (PFNA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:05	KAF
Perfluorodecanoic acid (PFDA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:05	KAF
NMeFOSAA	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:05	KAF
Perfluoroundecanoic acid (PFUnA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:05	KAF
NEtFOSAA	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:05	KAF
Perfluorododecanoic acid (PFDoA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:05	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:05	KAF
Perfluorotetradecanoic acid (PFTA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:05	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		84.3	70-130					11/28/18 13:05	
13C-PFDA		72.9	70-130					11/28/18 13:05	
d5-NEtFOSAA		83.2	70-130					11/28/18 13:05	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0528

Sample Description:

Work Order: 18K0702

Date Received: 11/15/2018

Field Sample #: SB-56C

Sampled: 11/13/2018 08:45

Sample ID: 18K0702-03

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:18	KAF
Perfluorohexanoic acid (PFHxA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:18	KAF
Perfluoroheptanoic acid (PFHpA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:18	KAF
Perfluorobutanoic acid (PFBA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:18	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:18	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:18	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:18	KAF
Perfluoropentanoic acid (PFPeA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:18	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:18	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:18	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:18	KAF
Perfluorooctanoic acid (PFOA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:18	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:18	KAF
Perfluorononanoic acid (PFNA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:18	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:18	KAF
NMeFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:18	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:18	KAF
NEtFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:18	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:18	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:18	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:18	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		88.5	70-130					11/28/18 13:18	
13C-PFDA		85.6	70-130					11/28/18 13:18	
d5-NEtFOSAA		87.3	70-130					11/28/18 13:18	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0528

Sample Description:

Work Order: 18K0702

Date Received: 11/15/2018

Field Sample #: SB-57A

Sampled: 11/13/2018 08:50

Sample ID: 18K0702-04

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:31	KAF
Perfluorohexanoic acid (PFHxA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:31	KAF
Perfluoroheptanoic acid (PFHpA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:31	KAF
Perfluorobutanoic acid (PFBA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:31	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:31	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:31	KAF
Perfluorooctanesulfonamide (FOSA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:31	KAF
Perfluoropentanoic acid (PFPeA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:31	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:31	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:31	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:31	KAF
Perfluorooctanoic acid (PFOA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:31	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:31	KAF
Perfluorononanoic acid (PFNA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:31	KAF
Perfluorodecanoic acid (PFDA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:31	KAF
NMeFOSAA	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:31	KAF
Perfluoroundecanoic acid (PFUnA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:31	KAF
NEtFOSAA	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:31	KAF
Perfluorododecanoic acid (PFDoA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:31	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:31	KAF
Perfluorotetradecanoic acid (PFTA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:31	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		88.3	70-130					11/28/18 13:31	
13C-PFDA		84.6	70-130					11/28/18 13:31	
d5-NEtFOSAA		94.1	70-130					11/28/18 13:31	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0528

Sample Description:

Work Order: 18K0702

Date Received: 11/15/2018

Field Sample #: SB-57B

Sampled: 11/13/2018 09:16

Sample ID: 18K0702-05

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:44	KAF
Perfluorohexanoic acid (PFHxA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:44	KAF
Perfluoroheptanoic acid (PFHpA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:44	KAF
Perfluorobutanoic acid (PFBA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:44	KAF
Perfluorodecanesulfonic acid (PFDS)	6.7	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:44	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:44	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:44	KAF
Perfluoropentanoic acid (PFPeA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:44	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:44	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:44	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:44	KAF
Perfluorooctanoic acid (PFOA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:44	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:44	KAF
Perfluorononanoic acid (PFNA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:44	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:44	KAF
NMeFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:44	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:44	KAF
NEtFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:44	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:44	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:44	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:44	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		90.0	70-130					11/28/18 13:44	
13C-PFDA		90.4	70-130					11/28/18 13:44	
d5-NEtFOSAA		94.0	70-130					11/28/18 13:44	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0528

Sample Description:

Work Order: 18K0702

Date Received: 11/15/2018

Field Sample #: SB-57C

Sampled: 11/13/2018 09:27

Sample ID: 18K0702-06

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:56	KAF
Perfluorohexanoic acid (PFHxA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:56	KAF
Perfluoroheptanoic acid (PFHpA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:56	KAF
Perfluorobutanoic acid (PFBA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:56	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:56	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:56	KAF
Perfluorooctanesulfonamide (FOSA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:56	KAF
Perfluoropentanoic acid (PFPeA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:56	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:56	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:56	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:56	KAF
Perfluorooctanoic acid (PFOA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:56	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:56	KAF
Perfluorononanoic acid (PFNA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:56	KAF
Perfluorodecanoic acid (PFDA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:56	KAF
NMeFOSAA	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:56	KAF
Perfluoroundecanoic acid (PFUnA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:56	KAF
NEtFOSAA	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:56	KAF
Perfluorododecanoic acid (PFDoA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:56	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:56	KAF
Perfluorotetradecanoic acid (PFTA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 13:56	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		89.7	70-130					11/28/18 13:56	
13C-PFDA		85.8	70-130					11/28/18 13:56	
d5-NEtFOSAA		91.0	70-130					11/28/18 13:56	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0528

Sample Description:

Work Order: 18K0702

Date Received: 11/15/2018

Field Sample #: SB-58A

Sampled: 11/13/2018 09:34

Sample ID: 18K0702-07

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:09	KAF
Perfluorohexanoic acid (PFHxA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:09	KAF
Perfluoroheptanoic acid (PFHpA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:09	KAF
Perfluorobutanoic acid (PFBA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:09	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:09	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:09	KAF
Perfluorooctanesulfonamide (FOSA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:09	KAF
Perfluoropentanoic acid (PFPeA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:09	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:09	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:09	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:09	KAF
Perfluorooctanoic acid (PFOA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:09	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:09	KAF
Perfluorononanoic acid (PFNA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:09	KAF
Perfluorodecanoic acid (PFDA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:09	KAF
NMeFOSAA	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:09	KAF
Perfluoroundecanoic acid (PFUnA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:09	KAF
NEtFOSAA	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:09	KAF
Perfluorododecanoic acid (PFDoA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:09	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:09	KAF
Perfluorotetradecanoic acid (PFTA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:09	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		89.6	70-130					11/28/18 14:09	
13C-PFDA		90.6	70-130					11/28/18 14:09	
d5-NEtFOSAA		93.4	70-130					11/28/18 14:09	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0528

Sample Description:

Work Order: 18K0702

Date Received: 11/15/2018

Field Sample #: SB-58B

Sampled: 11/13/2018 09:55

Sample ID: 18K0702-08

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:22	KAF
Perfluorohexanoic acid (PFHxA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:22	KAF
Perfluoroheptanoic acid (PFHpA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:22	KAF
Perfluorobutanoic acid (PFBA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:22	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:22	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:22	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:22	KAF
Perfluoropentanoic acid (PFPeA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:22	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:22	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:22	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:22	KAF
Perfluorooctanoic acid (PFOA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:22	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:22	KAF
Perfluorononanoic acid (PFNA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:22	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:22	KAF
NMeFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:22	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:22	KAF
NEtFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:22	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:22	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:22	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:22	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		85.7	70-130					11/28/18 14:22	
13C-PFDA		81.6	70-130					11/28/18 14:22	
d5-NEtFOSAA		85.5	70-130					11/28/18 14:22	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0528

Sample Description:

Work Order: 18K0702

Date Received: 11/15/2018

Field Sample #: SB-58C

Sampled: 11/13/2018 10:03

Sample ID: 18K0702-09

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:34	KAF
Perfluorohexanoic acid (PFHxA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:34	KAF
Perfluoroheptanoic acid (PFHpA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:34	KAF
Perfluorobutanoic acid (PFBA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:34	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:34	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:34	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:34	KAF
Perfluoropentanoic acid (PFPeA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:34	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:34	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:34	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:34	KAF
Perfluorooctanoic acid (PFOA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:34	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:34	KAF
Perfluorononanoic acid (PFNA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:34	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:34	KAF
NMeFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:34	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:34	KAF
NEtFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:34	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:34	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:34	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:34	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		96.9	70-130					11/28/18 14:34	
13C-PFDA		97.5	70-130					11/28/18 14:34	
d5-NEtFOSAA		102	70-130					11/28/18 14:34	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0528

Sample Description:

Work Order: 18K0702

Date Received: 11/15/2018

Field Sample #: SB-59A

Sampled: 11/13/2018 10:18

Sample ID: 18K0702-10

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:47	KAF
Perfluorohexanoic acid (PFHxA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:47	KAF
Perfluoroheptanoic acid (PFHpA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:47	KAF
Perfluorobutanoic acid (PFBA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:47	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:47	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:47	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:47	KAF
Perfluoropentanoic acid (PFPeA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:47	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:47	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:47	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:47	KAF
Perfluorooctanoic acid (PFOA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:47	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:47	KAF
Perfluorononanoic acid (PFNA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:47	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:47	KAF
NMeFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:47	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:47	KAF
NEtFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:47	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:47	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:47	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 14:47	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		93.1	70-130					11/28/18 14:47	
13C-PFDA		91.3	70-130					11/28/18 14:47	
d5-NEtFOSAA		98.8	70-130					11/28/18 14:47	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0528

Sample Description:

Work Order: 18K0702

Date Received: 11/15/2018

Field Sample #: SB-59B

Sampled: 11/13/2018 10:29

Sample ID: 18K0702-11

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:15	KAF
Perfluorohexanoic acid (PFHxA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:15	KAF
Perfluoroheptanoic acid (PFHpA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:15	KAF
Perfluorobutanoic acid (PFBA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:15	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:15	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:15	KAF
Perfluorooctanesulfonamide (FOSA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:15	KAF
Perfluoropentanoic acid (PFPeA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:15	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:15	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:15	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:15	KAF
Perfluorooctanoic acid (PFOA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:15	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:15	KAF
Perfluorononanoic acid (PFNA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:15	KAF
Perfluorodecanoic acid (PFDA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:15	KAF
NMeFOSAA	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:15	KAF
Perfluoroundecanoic acid (PFUnA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:15	KAF
NEtFOSAA	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:15	KAF
Perfluorododecanoic acid (PFDoA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:15	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:15	KAF
Perfluorotetradecanoic acid (PFTA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:15	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		92.7	70-130					11/28/18 15:15	
13C-PFDA		89.6	70-130					11/28/18 15:15	
d5-NEtFOSAA		97.7	70-130					11/28/18 15:15	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0528

Sample Description:

Work Order: 18K0702

Date Received: 11/15/2018

Field Sample #: SB-59C

Sampled: 11/13/2018 10:40

Sample ID: 18K0702-12

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:28	KAF
Perfluorohexanoic acid (PFHxA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:28	KAF
Perfluoroheptanoic acid (PFHpA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:28	KAF
Perfluorobutanoic acid (PFBA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:28	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:28	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:28	KAF
Perfluorooctanesulfonamide (FOSA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:28	KAF
Perfluoropentanoic acid (PFPeA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:28	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:28	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:28	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:28	KAF
Perfluorooctanoic acid (PFOA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:28	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:28	KAF
Perfluorononanoic acid (PFNA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:28	KAF
Perfluorodecanoic acid (PFDA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:28	KAF
NMeFOSAA	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:28	KAF
Perfluoroundecanoic acid (PFUnA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:28	KAF
NEtFOSAA	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:28	KAF
Perfluorododecanoic acid (PFDoA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:28	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:28	KAF
Perfluorotetradecanoic acid (PFTA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:28	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		97.6	70-130					11/28/18 15:28	
13C-PFDA		89.2	70-130					11/28/18 15:28	
d5-NEtFOSAA		97.7	70-130					11/28/18 15:28	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0528

Sample Description:

Work Order: 18K0702

Date Received: 11/15/2018

Field Sample #: SB-60A

Sampled: 11/13/2018 10:57

Sample ID: 18K0702-13

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:41	KAF
Perfluorohexanoic acid (PFHxA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:41	KAF
Perfluoroheptanoic acid (PFHpA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:41	KAF
Perfluorobutanoic acid (PFBA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:41	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:41	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:41	KAF
Perfluorooctanesulfonamide (FOSA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:41	KAF
Perfluoropentanoic acid (PFPeA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:41	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:41	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:41	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:41	KAF
Perfluorooctanoic acid (PFOA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:41	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:41	KAF
Perfluorononanoic acid (PFNA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:41	KAF
Perfluorodecanoic acid (PFDA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:41	KAF
NMeFOSAA	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:41	KAF
Perfluoroundecanoic acid (PFUnA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:41	KAF
NEtFOSAA	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:41	KAF
Perfluorododecanoic acid (PFDoA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:41	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:41	KAF
Perfluorotetradecanoic acid (PFTA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:41	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		95.7	70-130					11/28/18 15:41	
13C-PFDA		90.3	70-130					11/28/18 15:41	
d5-NEtFOSAA		99.9	70-130					11/28/18 15:41	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0528

Sample Description:

Work Order: 18K0702

Date Received: 11/15/2018

Field Sample #: SB-60B

Sampled: 11/13/2018 11:10

Sample ID: 18K0702-14

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:53	KAF
Perfluorohexanoic acid (PFHxA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:53	KAF
Perfluoroheptanoic acid (PFHpA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:53	KAF
Perfluorobutanoic acid (PFBA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:53	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:53	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:53	KAF
Perfluorooctanesulfonamide (FOSA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:53	KAF
Perfluoropentanoic acid (PFPeA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:53	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:53	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:53	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:53	KAF
Perfluorooctanoic acid (PFOA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:53	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:53	KAF
Perfluorononanoic acid (PFNA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:53	KAF
Perfluorodecanoic acid (PFDA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:53	KAF
NMeFOSAA	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:53	KAF
Perfluoroundecanoic acid (PFUnA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:53	KAF
NEtFOSAA	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:53	KAF
Perfluorododecanoic acid (PFDoA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:53	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:53	KAF
Perfluorotetradecanoic acid (PFTA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 15:53	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		91.5	70-130					11/28/18 15:53	
13C-PFDA		82.4	70-130					11/28/18 15:53	
d5-NEtFOSAA		98.2	70-130					11/28/18 15:53	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0528

Sample Description:

Work Order: 18K0702

Date Received: 11/15/2018

Field Sample #: SB-60C

Sampled: 11/13/2018 11:30

Sample ID: 18K0702-15

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:06	KAF
Perfluorohexanoic acid (PFHxA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:06	KAF
Perfluoroheptanoic acid (PFHpA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:06	KAF
Perfluorobutanoic acid (PFBA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:06	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:06	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:06	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:06	KAF
Perfluoropentanoic acid (PFPeA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:06	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:06	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:06	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:06	KAF
Perfluorooctanoic acid (PFOA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:06	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:06	KAF
Perfluorononanoic acid (PFNA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:06	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:06	KAF
NMeFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:06	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:06	KAF
NEtFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:06	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:06	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:06	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:06	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		97.2	70-130					11/28/18 16:06	
13C-PFDA		84.1	70-130					11/28/18 16:06	
d5-NEtFOSAA		100	70-130					11/28/18 16:06	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0528

Sample Description:

Work Order: 18K0702

Date Received: 11/15/2018

Field Sample #: SB-61A

Sampled: 11/13/2018 10:50

Sample ID: 18K0702-16

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:19	KAF
Perfluorohexanoic acid (PFHxA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:19	KAF
Perfluoroheptanoic acid (PFHpA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:19	KAF
Perfluorobutanoic acid (PFBA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:19	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:19	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:19	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:19	KAF
Perfluoropentanoic acid (PFPeA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:19	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:19	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:19	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:19	KAF
Perfluorooctanoic acid (PFOA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:19	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:19	KAF
Perfluorononanoic acid (PFNA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:19	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:19	KAF
NMeFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:19	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:19	KAF
NEtFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:19	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:19	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:19	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:19	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		96.8	70-130					11/28/18 16:19	
13C-PFDA		103	70-130					11/28/18 16:19	
d5-NEtFOSAA		99.0	70-130					11/28/18 16:19	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0528

Sample Description:

Work Order: 18K0702

Date Received: 11/15/2018

Field Sample #: SB-61B

Sampled: 11/13/2018 12:02

Sample ID: 18K0702-17

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:32	KAF
Perfluorohexanoic acid (PFHxA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:32	KAF
Perfluoroheptanoic acid (PFHpA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:32	KAF
Perfluorobutanoic acid (PFBA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:32	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:32	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:32	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:32	KAF
Perfluoropentanoic acid (PFPeA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:32	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:32	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:32	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:32	KAF
Perfluorooctanoic acid (PFOA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:32	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:32	KAF
Perfluorononanoic acid (PFNA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:32	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:32	KAF
NMeFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:32	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:32	KAF
NEtFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:32	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:32	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:32	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:32	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		110	70-130					11/28/18 16:32	
13C-PFDA		102	70-130					11/28/18 16:32	
d5-NEtFOSAA		115	70-130					11/28/18 16:32	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0528

Sample Description:

Work Order: 18K0702

Date Received: 11/15/2018

Field Sample #: SB-61C

Sampled: 11/13/2018 12:11

Sample ID: 18K0702-18

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:44	KAF
Perfluorohexanoic acid (PFHxA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:44	KAF
Perfluoroheptanoic acid (PFHpA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:44	KAF
Perfluorobutanoic acid (PFBA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:44	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:44	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:44	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:44	KAF
Perfluoropentanoic acid (PFPeA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:44	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:44	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:44	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:44	KAF
Perfluorooctanoic acid (PFOA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:44	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:44	KAF
Perfluorononanoic acid (PFNA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:44	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:44	KAF
NMeFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:44	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:44	KAF
NEtFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:44	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:44	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:44	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:44	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		91.3	70-130					11/28/18 16:44	
13C-PFDA		81.0	70-130					11/28/18 16:44	
d5-NEtFOSAA		88.8	70-130					11/28/18 16:44	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0528

Sample Description:

Work Order: 18K0702

Date Received: 11/15/2018

Field Sample #: SB-64A

Sampled: 11/13/2018 13:15

Sample ID: 18K0702-19

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:57	KAF
Perfluorohexanoic acid (PFHxA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:57	KAF
Perfluoroheptanoic acid (PFHpA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:57	KAF
Perfluorobutanoic acid (PFBA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:57	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:57	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:57	KAF
Perfluorooctanesulfonamide (FOSA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:57	KAF
Perfluoropentanoic acid (PFPeA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:57	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:57	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:57	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:57	KAF
Perfluorooctanoic acid (PFOA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:57	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:57	KAF
Perfluorononanoic acid (PFNA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:57	KAF
Perfluorodecanoic acid (PFDA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:57	KAF
NMeFOSAA	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:57	KAF
Perfluoroundecanoic acid (PFUnA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:57	KAF
NEtFOSAA	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:57	KAF
Perfluorododecanoic acid (PFDoA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:57	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:57	KAF
Perfluorotetradecanoic acid (PFTA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 16:57	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		89.3	70-130					11/28/18 16:57	
13C-PFDA		86.3	70-130					11/28/18 16:57	
d5-NEtFOSAA		100	70-130					11/28/18 16:57	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0528

Sample Description:

Work Order: 18K0702

Date Received: 11/15/2018

Field Sample #: SB-64B

Sampled: 11/13/2018 13:20

Sample ID: 18K0702-20

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 17:10	KAF
Perfluorohexanoic acid (PFHxA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 17:10	KAF
Perfluoroheptanoic acid (PFHpA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 17:10	KAF
Perfluorobutanoic acid (PFBA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 17:10	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 17:10	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 17:10	KAF
Perfluorooctanesulfonamide (FOSA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 17:10	KAF
Perfluoropentanoic acid (PFPeA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 17:10	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 17:10	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 17:10	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 17:10	KAF
Perfluorooctanoic acid (PFOA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 17:10	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 17:10	KAF
Perfluorononanoic acid (PFNA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 17:10	KAF
Perfluorodecanoic acid (PFDA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 17:10	KAF
NMeFOSAA	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 17:10	KAF
Perfluoroundecanoic acid (PFUnA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 17:10	KAF
NEtFOSAA	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 17:10	KAF
Perfluorododecanoic acid (PFDoA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 17:10	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 17:10	KAF
Perfluorotetradecanoic acid (PFTA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/28/18 17:10	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		91.2	70-130					11/28/18 17:10	
13C-PFDA		83.5	70-130					11/28/18 17:10	
d5-NEtFOSAA		98.1	70-130					11/28/18 17:10	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0528

Sample Description:

Work Order: 18K0702

Date Received: 11/15/2018

Field Sample #: SB-65A

Sampled: 11/13/2018 13:30

Sample ID: 18K0702-21

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:13	KAF
Perfluorohexanoic acid (PFHxA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:13	KAF
Perfluoroheptanoic acid (PFHpA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:13	KAF
Perfluorobutanoic acid (PFBA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:13	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:13	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:13	KAF
Perfluorooctanesulfonamide (FOSA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:13	KAF
Perfluoropentanoic acid (PFPeA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:13	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:13	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:13	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:13	KAF
Perfluorooctanoic acid (PFOA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:13	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:13	KAF
Perfluorononanoic acid (PFNA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:13	KAF
Perfluorodecanoic acid (PFDA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:13	KAF
NMeFOSAA	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:13	KAF
Perfluoroundecanoic acid (PFUnA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:13	KAF
NEtFOSAA	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:13	KAF
Perfluorododecanoic acid (PFDoA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:13	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:13	KAF
Perfluorotetradecanoic acid (PFTA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:13	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		92.7	70-130					11/29/18 15:13	
13C-PFDA		83.1	70-130					11/29/18 15:13	
d5-NEtFOSAA		90.0	70-130					11/29/18 15:13	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0528

Sample Description:

Work Order: 18K0702

Date Received: 11/15/2018

Field Sample #: SB-65B

Sampled: 11/13/2018 13:35

Sample ID: 18K0702-22

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:26	KAF
Perfluorohexanoic acid (PFHxA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:26	KAF
Perfluoroheptanoic acid (PFHpA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:26	KAF
Perfluorobutanoic acid (PFBA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:26	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:26	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:26	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:26	KAF
Perfluoropentanoic acid (PFPeA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:26	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:26	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:26	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:26	KAF
Perfluorooctanoic acid (PFOA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:26	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:26	KAF
Perfluorononanoic acid (PFNA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:26	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:26	KAF
NMeFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:26	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:26	KAF
NEtFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:26	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:26	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:26	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:26	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		90.8	70-130					11/29/18 15:26	
13C-PFDA		87.5	70-130					11/29/18 15:26	
d5-NEtFOSAA		95.8	70-130					11/29/18 15:26	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0528

Sample Description:

Work Order: 18K0702

Date Received: 11/15/2018

Field Sample #: SB-66A

Sampled: 11/13/2018 13:41

Sample ID: 18K0702-23

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:39	KAF
Perfluorohexanoic acid (PFHxA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:39	KAF
Perfluoroheptanoic acid (PFHpA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:39	KAF
Perfluorobutanoic acid (PFBA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:39	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:39	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:39	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:39	KAF
Perfluoropentanoic acid (PFPeA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:39	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:39	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:39	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:39	KAF
Perfluorooctanoic acid (PFOA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:39	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:39	KAF
Perfluorononanoic acid (PFNA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:39	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:39	KAF
NMeFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:39	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:39	KAF
NEtFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:39	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:39	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:39	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:39	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		95.6	70-130					11/29/18 15:39	
13C-PFDA		88.7	70-130					11/29/18 15:39	
d5-NEtFOSAA		99.5	70-130					11/29/18 15:39	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0528

Sample Description:

Work Order: 18K0702

Date Received: 11/15/2018

Field Sample #: SB-66B

Sampled: 11/13/2018 13:49

Sample ID: 18K0702-24

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:51	KAF
Perfluorohexanoic acid (PFHxA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:51	KAF
Perfluoroheptanoic acid (PFHpA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:51	KAF
Perfluorobutanoic acid (PFBA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:51	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:51	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:51	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:51	KAF
Perfluoropentanoic acid (PFPeA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:51	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:51	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:51	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:51	KAF
Perfluorooctanoic acid (PFOA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:51	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:51	KAF
Perfluorononanoic acid (PFNA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:51	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:51	KAF
NMeFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:51	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:51	KAF
NEtFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:51	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:51	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:51	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 15:51	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		89.1	70-130					11/29/18 15:51	
13C-PFDA		84.3	70-130					11/29/18 15:51	
d5-NEtFOSAA		92.0	70-130					11/29/18 15:51	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0528

Sample Description:

Work Order: 18K0702

Date Received: 11/15/2018

Field Sample #: SB-67A

Sampled: 11/13/2018 13:57

Sample ID: 18K0702-25

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:04	KAF
Perfluorohexanoic acid (PFHxA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:04	KAF
Perfluoroheptanoic acid (PFHpA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:04	KAF
Perfluorobutanoic acid (PFBA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:04	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:04	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:04	KAF
Perfluorooctanesulfonamide (FOSA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:04	KAF
Perfluoropentanoic acid (PFPeA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:04	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:04	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:04	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:04	KAF
Perfluorooctanoic acid (PFOA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:04	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:04	KAF
Perfluorononanoic acid (PFNA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:04	KAF
Perfluorodecanoic acid (PFDA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:04	KAF
NMeFOSAA	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:04	KAF
Perfluoroundecanoic acid (PFUnA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:04	KAF
NEtFOSAA	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:04	KAF
Perfluorododecanoic acid (PFDoA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:04	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:04	KAF
Perfluorotetradecanoic acid (PFTA)	ND	1.9	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:04	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		93.4	70-130					11/29/18 16:04	
13C-PFDA		91.1	70-130					11/29/18 16:04	
d5-NEtFOSAA		101	70-130					11/29/18 16:04	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0528

Sample Description:

Work Order: 18K0702

Date Received: 11/15/2018

Field Sample #: SB-67B

Sampled: 11/13/2018 14:00

Sample ID: 18K0702-26

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:17	KAF
Perfluorohexanoic acid (PFHxA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:17	KAF
Perfluoroheptanoic acid (PFHpA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:17	KAF
Perfluorobutanoic acid (PFBA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:17	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:17	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:17	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:17	KAF
Perfluoropentanoic acid (PFPeA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:17	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:17	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:17	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:17	KAF
Perfluorooctanoic acid (PFOA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:17	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:17	KAF
Perfluorononanoic acid (PFNA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:17	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:17	KAF
NMeFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:17	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:17	KAF
NEtFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:17	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:17	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:17	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:17	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		94.9	70-130					11/29/18 16:17	
13C-PFDA		78.4	70-130					11/29/18 16:17	
d5-NEtFOSAA		86.9	70-130					11/29/18 16:17	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0528

Sample Description:

Work Order: 18K0702

Date Received: 11/15/2018

Field Sample #: SB-68A

Sampled: 11/13/2018 14:17

Sample ID: 18K0702-27

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:30	KAF
Perfluorohexanoic acid (PFHxA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:30	KAF
Perfluoroheptanoic acid (PFHpA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:30	KAF
Perfluorobutanoic acid (PFBA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:30	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:30	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:30	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:30	KAF
Perfluoropentanoic acid (PFPeA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:30	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:30	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:30	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:30	KAF
Perfluorooctanoic acid (PFOA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:30	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:30	KAF
Perfluorononanoic acid (PFNA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:30	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:30	KAF
NMeFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:30	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:30	KAF
NEtFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:30	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:30	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:30	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:30	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		90.0	70-130					11/29/18 16:30	
13C-PFDA		83.0	70-130					11/29/18 16:30	
d5-NEtFOSAA		97.8	70-130					11/29/18 16:30	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0528

Sample Description:

Work Order: 18K0702

Date Received: 11/15/2018

Field Sample #: SB-68B

Sampled: 11/13/2018 14:20

Sample ID: 18K0702-28

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:43	KAF
Perfluorohexanoic acid (PFHxA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:43	KAF
Perfluoroheptanoic acid (PFHpA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:43	KAF
Perfluorobutanoic acid (PFBA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:43	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:43	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:43	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:43	KAF
Perfluoropentanoic acid (PFPeA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:43	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:43	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:43	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:43	KAF
Perfluorooctanoic acid (PFOA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:43	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:43	KAF
Perfluorononanoic acid (PFNA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:43	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:43	KAF
NMeFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:43	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:43	KAF
NEtFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:43	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:43	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:43	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:43	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		97.7	70-130					11/29/18 16:43	
13C-PFDA		88.3	70-130					11/29/18 16:43	
d5-NEtFOSAA		99.9	70-130					11/29/18 16:43	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0528

Sample Description:

Work Order: 18K0702

Date Received: 11/15/2018

Field Sample #: SB-69A

Sampled: 11/13/2018 14:44

Sample ID: 18K0702-29

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:55	KAF
Perfluorohexanoic acid (PFHxA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:55	KAF
Perfluoroheptanoic acid (PFHpA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:55	KAF
Perfluorobutanoic acid (PFBA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:55	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:55	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:55	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:55	KAF
Perfluoropentanoic acid (PFPeA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:55	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:55	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:55	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:55	KAF
Perfluorooctanoic acid (PFOA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:55	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:55	KAF
Perfluorononanoic acid (PFNA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:55	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:55	KAF
NMeFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:55	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:55	KAF
NEtFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:55	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:55	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:55	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 16:55	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		83.9	70-130					11/29/18 16:55	
13C-PFDA		72.9	70-130					11/29/18 16:55	
d5-NEtFOSAA		83.2	70-130					11/29/18 16:55	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 18K0528

Sample Description:

Work Order: 18K0702

Date Received: 11/15/2018

Field Sample #: SB-69B

Sampled: 11/13/2018 14:50

Sample ID: 18K0702-30

Sample Matrix: Soil

Semivolatile Organic Compounds by - GC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 17:08	KAF
Perfluorohexanoic acid (PFHxA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 17:08	KAF
Perfluoroheptanoic acid (PFHpA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 17:08	KAF
Perfluorobutanoic acid (PFBA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 17:08	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 17:08	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 17:08	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 17:08	KAF
Perfluoropentanoic acid (PFPeA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 17:08	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 17:08	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 17:08	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 17:08	KAF
Perfluorooctanoic acid (PFOA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 17:08	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 17:08	KAF
Perfluorononanoic acid (PFNA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 17:08	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 17:08	KAF
NMeFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 17:08	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 17:08	KAF
NEtFOSAA	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 17:08	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 17:08	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 17:08	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	µg/kg	1		SOP-465 PFAS	11/26/18	11/29/18 17:08	KAF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		91.9	70-130					11/29/18 17:08	
13C-PFDA		85.2	70-130					11/29/18 17:08	
d5-NEtFOSAA		94.1	70-130					11/29/18 17:08	

Sample Extraction Data

Prep Method: EPA 537-SOP-465 PFAS

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0702-01 [SB-56A]	B217814	2.08	10.0	11/26/18
18K0702-02 [SB-56B]	B217814	2.07	10.0	11/26/18
18K0702-03 [SB-56C]	B217814	2.04	10.0	11/26/18
18K0702-04 [SB-57A]	B217814	2.08	10.0	11/26/18
18K0702-05 [SB-57B]	B217814	2.05	10.0	11/26/18
18K0702-06 [SB-57C]	B217814	2.07	10.0	11/26/18
18K0702-07 [SB-58A]	B217814	2.07	10.0	11/26/18
18K0702-08 [SB-58B]	B217814	2.03	10.0	11/26/18
18K0702-09 [SB-58C]	B217814	2.01	10.0	11/26/18
18K0702-10 [SB-59A]	B217814	2.01	10.0	11/26/18
18K0702-11 [SB-59B]	B217814	2.09	10.0	11/26/18
18K0702-12 [SB-59C]	B217814	2.08	10.0	11/26/18
18K0702-13 [SB-60A]	B217814	2.08	10.0	11/26/18
18K0702-14 [SB-60B]	B217814	2.08	10.0	11/26/18
18K0702-15 [SB-60C]	B217814	2.04	10.0	11/26/18
18K0702-16 [SB-61A]	B217814	2.04	10.0	11/26/18
18K0702-17 [SB-61B]	B217814	2.01	10.0	11/26/18
18K0702-18 [SB-61C]	B217814	2.04	10.0	11/26/18
18K0702-19 [SB-64A]	B217814	2.08	10.0	11/26/18
18K0702-20 [SB-64B]	B217814	2.09	10.0	11/26/18

Prep Method: EPA 537-SOP-465 PFAS

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0702-21 [SB-65A]	B217816	2.08	10.0	11/26/18
18K0702-22 [SB-65B]	B217816	2.01	10.0	11/26/18
18K0702-23 [SB-66A]	B217816	2.02	10.0	11/26/18
18K0702-24 [SB-66B]	B217816	2.03	10.0	11/26/18
18K0702-25 [SB-67A]	B217816	2.06	10.0	11/26/18
18K0702-26 [SB-67B]	B217816	2.03	10.0	11/26/18
18K0702-27 [SB-68A]	B217816	2.03	10.0	11/26/18
18K0702-28 [SB-68B]	B217816	2.05	10.0	11/26/18
18K0702-29 [SB-69A]	B217816	2.05	10.0	11/26/18
18K0702-30 [SB-69B]	B217816	2.03	10.0	11/26/18

QUALITY CONTROL

Semivolatile Organic Compounds by - GC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217814 - EPA 537										
Blank (B217814-BLK1)										
Prepared: 11/26/18 Analyzed: 11/28/18										
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	µg/kg							
Perfluorohexanoic acid (PFHxA)	ND	2.0	µg/kg							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	µg/kg							
Perfluorobutanoic acid (PFBA)	ND	2.0	µg/kg							
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	µg/kg							
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	µg/kg							
Perfluorooctanesulfonamide (FOSA)	ND	2.0	µg/kg							
Perfluoropentanoic acid (PFPeA)	ND	2.0	µg/kg							
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0	µg/kg							
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	µg/kg							
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	µg/kg							
Perfluorooctanoic acid (PFOA)	ND	2.0	µg/kg							
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	µg/kg							
Perfluorononanoic acid (PFNA)	ND	2.0	µg/kg							
Perfluorodecanoic acid (PFDA)	ND	2.0	µg/kg							
NMeFOSAA	ND	2.0	µg/kg							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	µg/kg							
NEtFOSAA	ND	2.0	µg/kg							
Perfluorododecanoic acid (PFDoA)	ND	2.0	µg/kg							
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	µg/kg							
Perfluorotetradecanoic acid (PFTA)	ND	2.0	µg/kg							
Surrogate: 13C-PFHxA	51.7		µg/kg	50.0		103	70-130			
Surrogate: 13C-PFDA	49.8		µg/kg	50.0		99.6	70-130			
Surrogate: d5-NEtFOSAA	191		µg/kg	200		95.3	70-130			
LCS (B217814-BS1)										
Prepared: 11/26/18 Analyzed: 11/28/18										
Perfluorobutanesulfonic acid (PFBS)	2.70	2.0	µg/kg	2.17		124	50-150			
Perfluorohexanoic acid (PFHxA)	2.85	2.0	µg/kg	2.45		116	50-150			
Perfluoroheptanoic acid (PFHpA)	2.31	2.0	µg/kg	2.45		94.1	50-150			
Perfluorobutanoic acid (PFBA)	2.70	2.0	µg/kg	2.45		110	50-150			
Perfluorodecanesulfonic acid (PFDS)	2.57	2.0	µg/kg	2.37		109	50-150			
Perfluoroheptanesulfonic acid (PFHpS)	2.48	2.0	µg/kg	2.33		107	50-150			
Perfluorooctanesulfonamide (FOSA)	3.65	2.0	µg/kg	2.45		149	50-150			
Perfluoropentanoic acid (PFPeA)	2.84	2.0	µg/kg	2.45		116	50-150			
6:2 Fluorotelomersulfonate (6:2 FTS)	1.21	2.0	µg/kg	2.33		52.2	50-150			
8:2 Fluorotelomersulfonate (8:2 FTS)	3.22	2.0	µg/kg	2.35		137	50-150			
Perfluorohexanesulfonic acid (PFHxS)	2.50	2.0	µg/kg	2.23		112	50-150			
Perfluorooctanoic acid (PFOA)	3.16	2.0	µg/kg	2.45		129	50-150			
Perfluorooctanesulfonic acid (PFOS)	2.16	2.0	µg/kg	2.27		95.4	50-150			
Perfluorononanoic acid (PFNA)	2.63	2.0	µg/kg	2.45		107	50-150			
Perfluorodecanoic acid (PFDA)	2.40	2.0	µg/kg	2.45		97.8	50-150			
NMeFOSAA	3.02	2.0	µg/kg	2.45		123	50-150			
Perfluoroundecanoic acid (PFUnA)	3.01	2.0	µg/kg	2.45		123	50-150			
NEtFOSAA	3.57	2.0	µg/kg	2.45		146	50-150			
Perfluorododecanoic acid (PFDoA)	2.81	2.0	µg/kg	2.45		115	50-150			
Perfluorotridecanoic acid (PFTrDA)	2.31	2.0	µg/kg	2.45		94.3	50-150			
Perfluorotetradecanoic acid (PFTA)	1.36	2.0	µg/kg	2.45		55.5	50-150			
Surrogate: 13C-PFHxA	50.3		µg/kg	49.0		103	70-130			
Surrogate: 13C-PFDA	48.0		µg/kg	49.0		97.9	70-130			
Surrogate: d5-NEtFOSAA	198		µg/kg	196		101	70-130			

QUALITY CONTROL

Semivolatile Organic Compounds by - GC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217814 - EPA 537										
Matrix Spike (B217814-MS1)	Source: 18K0702-13			Prepared: 11/26/18 Analyzed: 11/28/18						
Perfluorobutanesulfonic acid (PFBS)	2.34	2.0	µg/kg	2.17	ND	108	50-150			
Perfluorohexanoic acid (PFHxA)	2.42	2.0	µg/kg	2.45	ND	98.8	50-150			
Perfluoroheptanoic acid (PFHpA)	2.83	2.0	µg/kg	2.45	ND	115	50-150			
Perfluorobutanoic acid (PFBA)	2.95	2.0	µg/kg	2.45	ND	120	50-150			
Perfluorodecanesulfonic acid (PFDS)	2.65	2.0	µg/kg	2.37	ND	112	50-150			
Perfluoroheptanesulfonic acid (PFHpS)	2.13	2.0	µg/kg	2.33	ND	91.3	50-150			
Perfluorooctanesulfonamide (FOSA)	3.12	2.0	µg/kg	2.45	ND	127	50-150			
Perfluoropentanoic acid (PFPeA)	2.71	2.0	µg/kg	2.45	ND	111	50-150			
6:2 Fluorotelomersulfonate (6:2 FTS)	2.87	2.0	µg/kg	2.33	ND	123	50-150			
8:2 Fluorotelomersulfonate (8:2 FTS)	2.72	2.0	µg/kg	2.35	ND	116	50-150			
Perfluorohexanesulfonic acid (PFHxS)	1.93	2.0	µg/kg	2.23	ND	86.6	50-150			
Perfluorooctanoic acid (PFOA)	3.18	2.0	µg/kg	2.45	ND	130	50-150			
Perfluorooctanesulfonic acid (PFOS)	1.91	2.0	µg/kg	2.27	ND	84.3	50-150			
Perfluorononanoic acid (PFNA)	2.59	2.0	µg/kg	2.45	ND	105	50-150			
Perfluorodecanoic acid (PFDA)	2.23	2.0	µg/kg	2.45	ND	90.9	50-150			
NMeFOSAA	2.56	2.0	µg/kg	2.45	ND	104	50-150			
Perfluoroundecanoic acid (PFUnA)	3.07	2.0	µg/kg	2.45	ND	125	50-150			
NEtFOSAA	3.00	2.0	µg/kg	2.45	ND	122	50-150			
Perfluorododecanoic acid (PFDoA)	2.47	2.0	µg/kg	2.45	ND	101	50-150			
Perfluorotridecanoic acid (PFTrDA)	2.34	2.0	µg/kg	2.45	ND	95.5	50-150			
Perfluorotetradecanoic acid (PFTA)	2.28	2.0	µg/kg	2.45	ND	93.2	50-150			
Surrogate: 13C-PFHxA	45.9		µg/kg	49.0		93.7	70-130			
Surrogate: 13C-PFDA	44.7		µg/kg	49.0		91.1	70-130			
Surrogate: d5-NEtFOSAA	190		µg/kg	196		96.8	70-130			
Matrix Spike Dup (B217814-MSD1)	Source: 18K0702-13			Prepared: 11/26/18 Analyzed: 11/28/18						
Perfluorobutanesulfonic acid (PFBS)	2.83	2.0	µg/kg	2.21	ND	128	50-150	19.1	30	
Perfluorohexanoic acid (PFHxA)	3.76	2.0	µg/kg	2.50	ND	150	50-150	43.2 *	30	R-02
Perfluoroheptanoic acid (PFHpA)	2.75	2.0	µg/kg	2.50	ND	110	50-150	2.59	30	
Perfluorobutanoic acid (PFBA)	3.20	2.0	µg/kg	2.50	ND	128	50-150	8.01	30	
Perfluorodecanesulfonic acid (PFDS)	2.49	2.0	µg/kg	2.41	ND	103	50-150	6.18	30	
Perfluoroheptanesulfonic acid (PFHpS)	1.94	2.0	µg/kg	2.38	ND	81.5	50-150	9.30	30	
Perfluorooctanesulfonamide (FOSA)	3.56	2.0	µg/kg	2.50	ND	142	50-150	13.2	30	
Perfluoropentanoic acid (PFPeA)	2.95	2.0	µg/kg	2.50	ND	118	50-150	8.33	30	
6:2 Fluorotelomersulfonate (6:2 FTS)	1.95	2.0	µg/kg	2.38	ND	81.9	50-150	38.3 *	30	R-02
8:2 Fluorotelomersulfonate (8:2 FTS)	3.15	2.0	µg/kg	2.40	ND	131	50-150	14.4	30	
Perfluorohexanesulfonic acid (PFHxS)	2.50	2.0	µg/kg	2.28	ND	110	50-150	25.6	30	
Perfluorooctanoic acid (PFOA)	2.23	2.0	µg/kg	2.50	ND	89.1	50-150	35.3 *	30	R-02
Perfluorooctanesulfonic acid (PFOS)	2.68	2.0	µg/kg	2.31	ND	116	50-150	33.5 *	30	R-02
Perfluorononanoic acid (PFNA)	3.48	2.0	µg/kg	2.50	ND	139	50-150	29.5	30	
Perfluorodecanoic acid (PFDA)	3.13	2.0	µg/kg	2.50	ND	125	50-150	33.6 *	30	R-02
NMeFOSAA	2.40	2.0	µg/kg	2.50	ND	96.2	50-150	6.16	30	
Perfluoroundecanoic acid (PFUnA)	3.21	2.0	µg/kg	2.50	ND	129	50-150	4.63	30	
NEtFOSAA	3.58	2.0	µg/kg	2.50	ND	143	50-150	17.4	30	
Perfluorododecanoic acid (PFDoA)	2.42	2.0	µg/kg	2.50	ND	96.7	50-150	2.21	30	
Perfluorotridecanoic acid (PFTrDA)	2.82	2.0	µg/kg	2.50	ND	113	50-150	18.6	30	
Perfluorotetradecanoic acid (PFTA)	4.12	2.0	µg/kg	2.50	ND	165 *	50-150	57.5 *	30	MS-11, MS-23
Surrogate: 13C-PFHxA	53.6		µg/kg	50.0		107	70-130			
Surrogate: 13C-PFDA	53.6		µg/kg	50.0		107	70-130			
Surrogate: d5-NEtFOSAA	189		µg/kg	200		94.7	70-130			

QUALITY CONTROL

Semivolatile Organic Compounds by - GC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217816 - EPA 537										
Blank (B217816-BLK1)										
Prepared: 11/26/18 Analyzed: 11/28/18										
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	µg/kg							
Perfluorohexanoic acid (PFHxA)	ND	2.0	µg/kg							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	µg/kg							
Perfluorobutanoic acid (PFBA)	ND	2.0	µg/kg							
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	µg/kg							
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	µg/kg							
Perfluorooctanesulfonamide (FOSA)	ND	2.0	µg/kg							
Perfluoropentanoic acid (PFPeA)	ND	2.0	µg/kg							
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0	µg/kg							
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	µg/kg							
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	µg/kg							
Perfluorooctanoic acid (PFOA)	ND	2.0	µg/kg							
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	µg/kg							
Perfluorononanoic acid (PFNA)	ND	2.0	µg/kg							
Perfluorodecanoic acid (PFDA)	ND	2.0	µg/kg							
NMeFOSAA	ND	2.0	µg/kg							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	µg/kg							
NEtFOSAA	ND	2.0	µg/kg							
Perfluorododecanoic acid (PFDoA)	ND	2.0	µg/kg							
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	µg/kg							
Perfluorotetradecanoic acid (PFTA)	ND	2.0	µg/kg							
Surrogate: 13C-PFHxA	45.0		µg/kg	49.0		91.9	70-130			
Surrogate: 13C-PFDA	44.2		µg/kg	49.0		90.1	70-130			
Surrogate: d5-NEtFOSAA	197		µg/kg	196		100	70-130			
LCS (B217816-BS1)										
Prepared: 11/26/18 Analyzed: 11/28/18										
Perfluorobutanesulfonic acid (PFBS)	2.28	2.0	µg/kg	2.21		103	50-150			
Perfluorohexanoic acid (PFHxA)	2.63	2.0	µg/kg	2.50		105	50-150			
Perfluoroheptanoic acid (PFHpA)	2.63	2.0	µg/kg	2.50		105	50-150			
Perfluorobutanoic acid (PFBA)	2.79	2.0	µg/kg	2.50		112	50-150			
Perfluorodecanesulfonic acid (PFDS)	3.35	2.0	µg/kg	2.41		139	50-150			
Perfluoroheptanesulfonic acid (PFHpS)	1.21	2.0	µg/kg	2.38		51.1	50-150			
Perfluorooctanesulfonamide (FOSA)	3.74	2.0	µg/kg	2.50		149	50-150			
Perfluoropentanoic acid (PFPeA)	2.67	2.0	µg/kg	2.50		107	50-150			
6:2 Fluorotelomersulfonate (6:2 FTS)	2.26	2.0	µg/kg	2.38		95.0	50-150			
8:2 Fluorotelomersulfonate (8:2 FTS)	3.57	2.0	µg/kg	2.40		149	50-150			
Perfluorohexanesulfonic acid (PFHxS)	2.11	2.0	µg/kg	2.28		92.8	50-150			
Perfluorooctanoic acid (PFOA)	2.16	2.0	µg/kg	2.50		86.6	50-150			
Perfluorooctanesulfonic acid (PFOS)	1.94	2.0	µg/kg	2.31		83.9	50-150			
Perfluorononanoic acid (PFNA)	2.48	2.0	µg/kg	2.50		99.2	50-150			
Perfluorodecanoic acid (PFDA)	2.46	2.0	µg/kg	2.50		98.5	50-150			
NMeFOSAA	3.38	2.0	µg/kg	2.50		135	50-150			
Perfluoroundecanoic acid (PFUnA)	2.24	2.0	µg/kg	2.50		89.6	50-150			
NEtFOSAA	3.10	2.0	µg/kg	2.50		124	50-150			
Perfluorododecanoic acid (PFDoA)	2.32	2.0	µg/kg	2.50		92.8	50-150			
Perfluorotridecanoic acid (PFTrDA)	2.10	2.0	µg/kg	2.50		83.9	50-150			
Perfluorotetradecanoic acid (PFTA)	2.06	2.0	µg/kg	2.50		82.6	50-150			
Surrogate: 13C-PFHxA	46.9		µg/kg	50.0		93.8	70-130			
Surrogate: 13C-PFDA	42.8		µg/kg	50.0		85.6	70-130			
Surrogate: d5-NEtFOSAA	185		µg/kg	200		92.6	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - GC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B217816 - EPA 537											
Matrix Spike (B217816-MS1)	Source: 18K0702-26			Prepared: 11/26/18 Analyzed: 11/28/18							
Perfluorobutanesulfonic acid (PFBS)	3.02	1.9	µg/kg	2.13	ND	142	50-150				
Perfluorohexanoic acid (PFHxA)	2.21	1.9	µg/kg	2.40	ND	91.8	50-150				
Perfluoroheptanoic acid (PFHpA)	2.92	1.9	µg/kg	2.40	ND	122	50-150				
Perfluorobutanoic acid (PFBA)	2.66	1.9	µg/kg	2.40	ND	111	50-150				
Perfluorodecanesulfonic acid (PFDS)	2.49	1.9	µg/kg	2.32	ND	107	50-150				
Perfluoroheptanesulfonic acid (PFHpS)	2.47	1.9	µg/kg	2.28	ND	108	50-150				
Perfluorooctanesulfonamide (FOSA)	3.35	1.9	µg/kg	2.40	ND	139	50-150				
Perfluoropentanoic acid (PFPeA)	2.57	1.9	µg/kg	2.40	ND	107	50-150				
6:2 Fluorotelomersulfonate (6:2 FTS)	2.06	1.9	µg/kg	2.28	ND	90.2	50-150				
8:2 Fluorotelomersulfonate (8:2 FTS)	2.31	1.9	µg/kg	2.31	ND	100	50-150				
Perfluorohexanesulfonic acid (PFHxS)	2.28	1.9	µg/kg	2.19	ND	104	50-150				
Perfluorooctanoic acid (PFOA)	2.42	1.9	µg/kg	2.40	ND	101	50-150				
Perfluorooctanesulfonic acid (PFOS)	1.98	1.9	µg/kg	2.22	ND	89.1	50-150				
Perfluorononanoic acid (PFNA)	2.19	1.9	µg/kg	2.40	ND	90.9	50-150				
Perfluorodecanoic acid (PFDA)	2.27	1.9	µg/kg	2.40	ND	94.6	50-150				
NMeFOSAA	3.28	1.9	µg/kg	2.40	ND	137	50-150				
Perfluoroundecanoic acid (PFUnA)	2.57	1.9	µg/kg	2.40	ND	107	50-150				
NEtFOSAA	2.19	1.9	µg/kg	2.40	ND	91.0	50-150				
Perfluorododecanoic acid (PFDoA)	1.84	1.9	µg/kg	2.40	ND	76.7	50-150				
Perfluorotridecanoic acid (PFTrDA)	1.89	1.9	µg/kg	2.40	ND	78.7	50-150				
Perfluorotetradecanoic acid (PFTA)	2.61	1.9	µg/kg	2.40	ND	109	50-150				
Surrogate: 13C-PFHxA	44.6		µg/kg	48.1		92.8	70-130				
Surrogate: 13C-PFDA	37.9		µg/kg	48.1		78.7	70-130				
Surrogate: d5-NEtFOSAA	159		µg/kg	192		82.6	70-130				
Matrix Spike Dup (B217816-MSD1)	Source: 18K0702-26			Prepared: 11/26/18 Analyzed: 11/28/18							
Perfluorobutanesulfonic acid (PFBS)	1.68	1.9	µg/kg	2.13	ND	78.8	50-150	57.3	*	30	R-02
Perfluorohexanoic acid (PFHxA)	2.11	1.9	µg/kg	2.40	ND	87.9	50-150	4.36		30	
Perfluoroheptanoic acid (PFHpA)	2.38	1.9	µg/kg	2.40	ND	99.2	50-150	20.3		30	
Perfluorobutanoic acid (PFBA)	2.61	1.9	µg/kg	2.40	ND	109	50-150	2.08		30	
Perfluorodecanesulfonic acid (PFDS)	2.32	1.9	µg/kg	2.32	ND	100	50-150	7.02		30	
Perfluoroheptanesulfonic acid (PFHpS)	2.62	1.9	µg/kg	2.28	ND	115	50-150	5.65		30	
Perfluorooctanesulfonamide (FOSA)	3.15	1.9	µg/kg	2.40	ND	131	50-150	6.13		30	
Perfluoropentanoic acid (PFPeA)	2.10	1.9	µg/kg	2.40	ND	87.3	50-150	20.3		30	
6:2 Fluorotelomersulfonate (6:2 FTS)	2.78	1.9	µg/kg	2.28	ND	122	50-150	29.8		30	
8:2 Fluorotelomersulfonate (8:2 FTS)	2.63	1.9	µg/kg	2.31	ND	114	50-150	12.7		30	
Perfluorohexanesulfonic acid (PFHxS)	1.92	1.9	µg/kg	2.19	ND	88.0	50-150	16.9		30	
Perfluorooctanoic acid (PFOA)	2.98	1.9	µg/kg	2.40	ND	124	50-150	20.6		30	
Perfluorooctanesulfonic acid (PFOS)	2.17	1.9	µg/kg	2.22	ND	97.4	50-150	8.88		30	
Perfluorononanoic acid (PFNA)	2.06	1.9	µg/kg	2.40	ND	85.6	50-150	6.07		30	
Perfluorodecanoic acid (PFDA)	2.12	1.9	µg/kg	2.40	ND	88.3	50-150	6.91		30	
NMeFOSAA	2.53	1.9	µg/kg	2.40	ND	105	50-150	26.1		30	
Perfluoroundecanoic acid (PFUnA)	1.82	1.9	µg/kg	2.40	ND	75.8	50-150	34.2	*	30	R-02
NEtFOSAA	2.47	1.9	µg/kg	2.40	ND	103	50-150	12.1		30	
Perfluorododecanoic acid (PFDoA)	2.66	1.9	µg/kg	2.40	ND	110	50-150	36.1	*	30	R-02
Perfluorotridecanoic acid (PFTrDA)	1.71	1.9	µg/kg	2.40	ND	71.2	50-150	10.0		30	
Perfluorotetradecanoic acid (PFTA)	2.96	1.9	µg/kg	2.40	ND	123	50-150	12.6		30	
Surrogate: 13C-PFHxA	44.1		µg/kg	48.1		91.6	70-130				
Surrogate: 13C-PFDA	39.0		µg/kg	48.1		81.2	70-130				
Surrogate: d5-NEtFOSAA	167		µg/kg	192		86.8	70-130				

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
MS-11	Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-23	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.
R-02	Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SOP 434-PFAAS in Water</i>	
Perfluorobutanesulfonic acid (PFBS)	NH-P
Perfluorohexanoic acid (PFHxA)	NH-P
Perfluoroheptanoic acid (PFHpA)	NH-P
Perfluorobutanoic acid (PFBA)	NH-P
Perfluoropentanoic acid (PFPeA)	NH-P
6:2 Fluorotelomersulfonate (6:2 FTS)	NH-P
8:2 Fluorotelomersulfonate (8:2 FTS)	NH-P
Perfluorohexanesulfonic acid (PFHxS)	NH-P
Perfluorooctanoic acid (PFOA)	NH-P
Perfluorooctanesulfonic acid (PFOS)	NH-P
Perfluorononanoic acid (PFNA)	NH-P
Perfluorodecanoic acid (PFDA)	NH-P
NMeFOSAA	NH-P
Perfluoroundecanoic acid (PFUnA)	NH-P
NEtFOSAA	NH-P
Perfluorododecanoic acid (PFDoA)	NH-P
Perfluorotridecanoic acid (PFTrDA)	NH-P
Perfluorotetradecanoic acid (PFTA)	NH-P
<i>SOP-465 PFAS in Soil</i>	
Perfluorobutanesulfonic acid (PFBS)	NH-P
Perfluorohexanoic acid (PFHxA)	NH-P
Perfluoroheptanoic acid (PFHpA)	NH-P
Perfluorohexanesulfonic acid (PFHxS)	NH-P
Perfluorooctanoic acid (PFOA)	NH-P
Perfluorooctanesulfonic acid (PFOS)	NH-P
Perfluorononanoic acid (PFNA)	NH-P
Perfluorodecanoic acid (PFDA)	NH-P
NMeFOSAA	NH-P
Perfluoroundecanoic acid (PFUnA)	NH-P
NEtFOSAA	NH-P
Perfluorododecanoic acid (PFDoA)	NH-P
Perfluorotridecanoic acid (PFTrDA)	NH-P
Perfluorotetradecanoic acid (PFTA)	NH-P

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

18K07-02

YORK

Analytical Laboratories, Inc.

11/14/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody York Project No.: 18K0528

This information is being sent to inform you that York intends to subcontract certain samples to another licensed laboratory for specific parameters that we cannot perform in-house. The specific parameters that will be subcontracted are detailed below. Do not contact the subcontract laboratory directly. Please contact the YORK project manager for further information.

Note: E-mail lab reports to: York_Lab_Report@yorklab.com Mail/Fax Hard Copies to: York Analytical at the address below

SENDING LABORATORY:

York Analytical Laboratories, Inc.
120 Research Drive
Stratford, CT 06615
Phone: 203.325.1371
Fax: 203.357.0166
Contact: York Analytical

RECEIVING LABORATORY:

Con-Test Analytical Laboratory
39 Spruce Street
East Long Meadow, MA 01028
Phone : (413) 525-2332
Fax: (413) 525-6405

York Ref: 18K0528-01

Sample ID: 18K0528-01

Matrix: Soil

Date Sampled : 11/13/2018 08:17

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 08:17	

Containers Supplied:

10_250mL Plastic Cool to 4° C (A)

York Ref: 18K0528-02

Sample ID: 18K0528-02

Matrix: Soil

Date Sampled : 11/13/2018 08:37

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 08:37	

Containers Supplied:

10_250mL Plastic Cool to 4° C (A)

York Purchase Order No.: **18K0528**

Samples from State of: NY

Deliverables required: **NYSDEC ASP B**

Data Pkg DUE: 12/14/2018

EDDs required: **NYSDEC EQUIS**

Special Info:

Chain-of-Custody Information

Released By York Sample Control	Paul Grace	11/14/2018	Received By	[Signature]	11/15/18	730
Received By	[Signature]	11/15/18	Received in Subcontract Lab By	[Signature]	11/15/18	915

18K0702

YORK

Analytical Laboratories, Inc.

11/14/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody

York Project No.: 18K0528

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Note: E-mail lab reports to: York_Lab_Report@yorklab.com Mail/Fax Hard Copies to: York Analytical at the address below

York Ref: 18K0528-03

Sample ID: 18K0528-03

Matrix: Soil

Date Sampled : 11/13/2018 08:45

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 08:45	

Containers Supplied:

10_250mL Plastic Cool to 4° C (A)

York Ref: 18K0528-04

Sample ID: 18K0528-04

Matrix: Soil

Date Sampled : 11/13/2018 08:50

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 08:50	

Containers Supplied:

10_250mL Plastic Cool to 4° C (A)

York Ref: 18K0528-05

Sample ID: 18K0528-05

Matrix: Soil

Date Sampled : 11/13/2018 09:16

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 09:16	

Containers Supplied:

10_250mL Plastic Cool to 4° C (A)

York Purchase Order No.: 18K0528

Samples from State of: NY

Deliverables required: NYSDEC ASP B

Data Pkg DUE: 12/14/2018

EDDs required: NYSDEC EQUIS

Special Info:

Chain-of-Custody Information

Released By York Sample Control	Date	Received By	Date
Paul Grace	11/14/2018	[Signature]	11/15/18 730
[Signature]	11/15/18	[Signature]	11/15/18 945
Received By	Date	Received in Subcontract Lab By	Date
		[Signature]	

18K0702

YORK

Analytical Laboratories, Inc.

11/14/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody

York Project No.: 18K0528

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York Ref: 18K0528-06

Sample ID: 18K0528-06	Matrix: Soil	Date Sampled: 11/13/2018 09:27	
<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 09:27	

Containers Supplied:
10_250mL Plastic Cool to 4° C (A)

York Ref: 18K0528-07

Sample ID: 18K0528-07	Matrix: Soil	Date Sampled: 11/13/2018 09:34	
<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 09:34	

Containers Supplied:
10_250mL Plastic Cool to 4° C (A)

York Ref: 18K0528-08

Sample ID: 18K0528-08	Matrix: Soil	Date Sampled: 11/13/2018 09:55	
<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 09:55	

Containers Supplied:
10_250mL Plastic Cool to 4° C (A)

York Purchase Order No.: 18K0528

Samples from State of: NY

Deliverables required: NYSDEC ASP B

Data Pkg DUE: 12/14/2018

EDDs required: NYSDEC EQUIS

Special Info:

Chain-of-Custody Information

Released By <i>Paul Grace</i>	Date 11/14/2018	Received By <i>[Signature]</i>	Date 11/15/18 7:30
Received By <i>[Signature]</i>	Date 11/15/18	Received in Subcontract Lab By <i>[Signature]</i>	Date 11/15/18 9:45

18K0702

YORK

Analytical Laboratories, Inc.

11/14/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody York Project No.: 18K0528

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Note: E-mail lab reports to: York_Lab_Report@yorklab.com Mail/Fax Hard Copies to: York Analytical at the address below

York Ref: 18K0528-09

Sample ID: 18K0528-09	Matrix: Soil	Date Sampled: 11/13/2018 10:03
<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 10:03

Containers Supplied:

10_250mL Plastic Cool to 4° C (A)

York Ref: 18K0528-10

Sample ID: 18K0528-10	Matrix: Soil	Date Sampled: 11/13/2018 10:18
<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 10:18

Containers Supplied:

10_250mL Plastic Cool to 4° C (A)

York Ref: 18K0528-11

Sample ID: 18K0528-11	Matrix: Soil	Date Sampled: 11/13/2018 10:29
<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 10:29

Containers Supplied:

10_250mL Plastic Cool to 4° C (A)

York Purchase Order No.: 18K0528

Samples from State of: NY

Deliverables required: NYSDEC ASP B

Data Pkg DUE: 12/14/2018

EDDs required: NYSDEC EQUIS

Special Info:

Chain-of-Custody Information

Released By York Sample Control	Date	Received By	Date
Paul Grace	11/14/2018	<i>[Signature]</i>	11/15/18 730
Received By	Date	Received in Subcontract Lab By	Date
<i>[Signature]</i>	11/15/18	5-4	11/15/18 945

18K0702

YORK

Analytical Laboratories, Inc.

11/14/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody York Project No.: 18K0528

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Note: E-mail lab reports to: York_Lab_Report@yorklab.com **Mail/Fax Hard Copies to:** York Analytical at the address below

York Ref: 18K0528-12

Sample ID: 18K0528-12

Matrix: Soil

Date Sampled: 11/13/2018 10:40

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 10:40	

Containers Supplied:

10_250mL Plastic Cool to 4° C (A)

York Ref: 18K0528-13

Sample ID: 18K0528-13

Matrix: Soil

Date Sampled: 11/13/2018 10:57

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 10:57	

Containers Supplied:

10_250mL Plastic Cool to 4° C (A)

York Ref: 18K0528-14

Sample ID: 18K0528-14

Matrix: Soil

Date Sampled: 11/13/2018 11:10

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 11:10	

Containers Supplied:

10_250mL Plastic Cool to 4° C (A)

York Purchase Order No.: **18K0528**

Samples from State of: NY

Deliverables required: **NYSDEC ASP B**

Data Pkg DUE: 12/14/2018

EDDs required: **NYSDEC EQUIS**

Special Info:

Chain-of-Custody Information

Released By York Sample Control	Paul Grace	11/14/2018	Received By	[Signature]	11/15/18	730
Received By	[Signature]	11/15/18	Received in Subcontract Lab By	[Signature]	11/15/18	945

18K0702

YORK

Analytical Laboratories, Inc.

11/14/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody York Project No.: 18K0528

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York Ref: 18K0528-15

Sample ID: 18K0528-15	Matrix: Soil	Date Sampled: 11/13/2018 11:30
<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>
		<u>Comments</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 11:30
<i>Containers Supplied:</i> 10_250mL Plastic Cool to 4° C (A)		

York Ref: 18K0528-16

Sample ID: 18K0528-16	Matrix: Soil	Date Sampled: 11/13/2018 10:50
<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>
		<u>Comments</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 10:50
<i>Containers Supplied:</i> 10_250mL Plastic Cool to 4° C (A)		

York Ref: 18K0528-17

Sample ID: 18K0528-17	Matrix: Soil	Date Sampled: 11/13/2018 12:02
<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>
		<u>Comments</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 12:02
<i>Containers Supplied:</i> 10_250mL Plastic Cool to 4° C (A)		

York Purchase Order No.: 18K0528

Samples from State of: NY

Deliverables required: NYSDEC ASP B

Data Pkg DUE: 12/14/2018

EDDs required: NYSDEC EQUIS

Special Info:

Chain-of-Custody Information

Released By York Sample Control	Paul Grace	11/14/2018	Received By	[Signature]	11/15/18	730
Received By	[Signature]	11/15/18	Received in Subcontract Lab By	[Signature]	11/15/18	945

18K0528

YORK

Analytical Laboratories, Inc.

11/14/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody

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York Ref: 18K0528-18

Sample ID: 18K0528-18 Matrix: Soil Date Sampled: 11/13/2018 12:11

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 12:11	

Containers Supplied:
10_250mL Plastic Cool to 4° C (A)

York Ref: 18K0528-21

Sample ID: 18K0528-21 Matrix: Soil Date Sampled: 11/13/2018 13:15

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 13:15	

Containers Supplied:
10_250mL Plastic Cool to 4° C (A)

York Ref: 18K0528-22

Sample ID: 18K0528-22 Matrix: Soil Date Sampled: 11/13/2018 13:20

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 13:20	

Containers Supplied:
10_250mL Plastic Cool to 4° C (A)

York Purchase Order No.: 18K0528

Samples from State of: NY

Deliverables required: NYSDEC ASP B

Data Pkg DUE: 12/14/2018

EDDs required: NYSDEC EQUIS

Special Info:

Chain-of-Custody Information

Released By York Sample/Control	Date	Received By	Date
Paul Grace	11/14/2018	<i>[Signature]</i>	11/15/18 730
Received By	Date	Received in Subcontract Lab By	Date
<i>[Signature]</i>	11/15/18	<i>[Signature]</i>	11/15/18 945

18K0528

YORK

Analytical Laboratories, Inc.

11/14/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody York Project No.: 18K0528

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York Ref: 18K0528-23

Sample ID: 18K0528-23	Matrix: Soil	Date Sampled: 11/13/2018 13:30	
<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 13:30	
<i>Containers Supplied:</i> 10_250mL Plastic Cool to 4° C (A)			

York Ref: 18K0528-24

Sample ID: 18K0528-24	Matrix: Soil	Date Sampled: 11/13/2018 13:35	
<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 13:35	
<i>Containers Supplied:</i> 10_250mL Plastic Cool to 4° C (A)			

York Ref: 18K0528-25

Sample ID: 18K0528-25	Matrix: Soil	Date Sampled: 11/13/2018 13:41	
<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 13:41	
<i>Containers Supplied:</i> 10_250mL Plastic Cool to 4° C (A)			

York Purchase Order No.: 18K0528

Samples from State of: NY

Deliverables required: NYSDEC ASP B

Data Pkg DUE: 12/14/2018

EDDs required: NYSDEC EQUIS

Special Info:

Chain-of-Custody Information

Released By: Paul Grace	Date: 11/14/2018	Received By: [Signature]	Date: 11/15/18	730
Received By: [Signature]	Date: 11/15/18	Received in Subcontract Lab By: [Signature]	Date: 11/15/18	945

18K0528

YORK

Analytical Laboratories, Inc.

11/14/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody York Project No.: 18K0528

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York Ref: 18K0528-26

Sample ID: 18K0528-26	Matrix: Soil	Date Sampled: 11/13/2018 13:49	
<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 13:49	
<i>Containers Supplied:</i>			
10_250mL Plastic Cool to 4° C (A)			

York Ref: 18K0528-27

Sample ID: 18K0528-27	Matrix: Soil	Date Sampled: 11/13/2018 13:57	
<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 13:57	
<i>Containers Supplied:</i>			
10_250mL Plastic Cool to 4° C (A)			

York Ref: 18K0528-28

Sample ID: 18K0528-28	Matrix: Soil	Date Sampled: 11/13/2018 14:00	
<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 14:00	
<i>Containers Supplied:</i>			
10_250mL Plastic Cool to 4° C (A)			

York Purchase Order No.: 18K0528

Samples from State of: NY

Deliverables required: NYSDEC ASP B

Data Pkg DUE: 12/14/2018

EDDs required: NYSDEC EQUIS

Special Info:

Chain-of-Custody Information

Released By York Sample Control	Paul Grace	11/14/2018	Received By	[Signature]	11/15/18	730
Received By	[Signature]	11/15/18	Received in Subcontract Lab By	S.U.	11/15/18	945

18K0528

YORK

Analytical Laboratories, Inc.

11/14/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody

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York Ref: 18K0528-29

Sample ID: 18K0528-29 Matrix: Soil Date Sampled : 11/13/2018 14:17

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 14:17	

Containers Supplied:
10_250mL Plastic Cool to 4° C (A)

York Ref: 18K0528-30

Sample ID: 18K0528-30 Matrix: Soil Date Sampled : 11/13/2018 14:20

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 14:20	

Containers Supplied:
10_250mL Plastic Cool to 4° C (A)

York Ref: 18K0528-31

Sample ID: 18K0528-31 Matrix: Soil Date Sampled : 11/13/2018 14:44

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 14:44	

Containers Supplied:
10_250mL Plastic Cool to 4° C (A)

York Purchase Order No.: **18K0528**

Samples from State of: NY

Deliverables required: **NYSDEC ASP B**

Data Pkg DUE: 12/14/2018

EDDs required: **NYSDEC EQUIS**

Special Info:

Chain-of-Custody Information

Released By York Sample Control	11/14/2018	Received By	11/15/18 7:30
<i>Paul Grace</i>		<i>Rough Justice</i>	
Received By	11/15/18	Received in Subcontract Lab By	11/15/18 945
<i>Rough Justice</i>		<i>54</i>	

18K0528

YORK

Analytical Laboratories, Inc.

11/14/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody
York Project No.: 18K0528

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York Ref: 18K0528-32

Sample ID: 18K0528-32

Matrix: Soil

Date Sampled: 11/13/2018 14:50

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 14:50	

Containers Supplied:

10_250mL Plastic Cool to 4° C (A)

York Purchase Order No.: 18K0528

Samples from State of: NY

Deliverables required: NYSDEC ASP B

Data Pkg DUE: 12/14/2018

EDDs required: NYSDEC EQUIS

Special Info:

Chain-of-Custody Information

Released By York Sample Control	Date	Received By	Date
Paul Grace	11/14/2018	<i>[Signature]</i>	11/15/18 730
Received By	Date	Received in Subcontract Lab By	Date
		<i>[Signature]</i>	11/15/18 945

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



con-test
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client York

Received By RAP Date 11/15/18 Time 9:45

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 5.4
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name F
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F

Are there Rushes? F

Are there Short Holds? F

Is there enough Volume? T

Is there Headspace where applicable? F

Proper Media/Containers Used? T

Were trip blanks received? F

Do all samples have the proper pH? NA

Who was notified? _____

Who was notified? _____

Who was notified? _____

MS/MSD? F

Is splitting samples required? F

On COC? F

Acid _____ Base _____

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria	2oz Amb/Clear
DI-		Other Glass		Other Plastic	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Unused Media

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-		Other Plastic		Other Glass	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Comments:

18K0702

YORK

Analytical Laboratories, Inc.

11/19/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody

York Project No.: **18K0528**

This information is being sent to inform you that York intends to subcontract certain samples to another licensed laboratory for specific parameters that we cannot perform in-house. The specific parameters that will be subcontracted are detailed below. Do not contact the subcontract laboratory directly. Please contact the YORK project manager for further information.

Note: E-mail lab reports to: York_Lab_Report@yorklab.com Mail/Fax Hard Copies to: York Analytical at the address below

SENDING LABORATORY:

York Analytical Laboratories, Inc.
120 Research Drive
Stratford, CT 06615
Phone: 203.325.1371
Fax: 203.357.0166
Contact: York Analytical

RECEIVING LABORATORY:

Con-Test Analytical Laboratory
39 Spruce Street
East Long Meadow, MA 01028
Phone : (413) 525-2332
Fax: (413) 525-6405

York Ref: 18K0528-01

Sample ID: SB-56A

Matrix: Soil

Date Sampled : 11/13/2018 08:17

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 08:17	

Containers Supplied:

10_250mL Plastic Cool to 4° C (A)

York Ref: 18K0528-02

Sample ID: SB-56B

Matrix: Soil

Date Sampled : 11/13/2018 08:37

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 08:37	

Containers Supplied:

10_250mL Plastic Cool to 4° C (A)

York Purchase Order No.: **18K0528**

Samples from State of: NY

Deliverables required: **NYSDEC ASP B**

Data Pkg DUE: 12/14/2018

EDDs required: **NYSDEC EQUIS**

Special Info:

Chain-of-Custody Information

Paul Grace

11/19/2018

Released By York Sample Control	Date	Received By	Date
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Received By	Date	Received in Subcontract Lab By	Date
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18K0702

YORK

Analytical Laboratories, Inc.

11/19/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody

York Project No.: **18K0528**

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Note: E-mail lab reports to: York_Lab_Report@yorklab.com **Mail/Fax Hard Copies to:** York Analytical at the address below

York Ref: 18K0528-03

03 **Sample ID: SB-56C**

Matrix: Soil

Date Sampled: 11/13/2018 08:45

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 08:45	

Containers Supplied:

10_250mL Plastic Cool to 4° C (A)

York Ref: 18K0528-04

04 **Sample ID: SB-57A**

Matrix: Soil

Date Sampled: 11/13/2018 08:50

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 08:50	

Containers Supplied:

10_250mL Plastic Cool to 4° C (A)

York Ref: 18K0528-05

05 **Sample ID: SB-57B**

Matrix: Soil

Date Sampled: 11/13/2018 09:16

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 09:16	

Containers Supplied:

10_250mL Plastic Cool to 4° C (A)

York Purchase Order No.: **18K0528**

Samples from State of: NY

Deliverables required: **NYSDEC ASP B**

Data Pkg DUE: 12/14/2018

EDDs required: **NYSDEC EQUIS**

Special Info:

Chain-of-Custody Information

Paul Grace

11/19/2018

Released By York Sample Control	Date	Received By	Date
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Received By	Date	Received in Subcontract Lab By	Date
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18K0702

YORK

Analytical Laboratories, Inc.

11/19/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody

York Project No.: **18K0528**

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Note: E-mail lab reports to: York_Lab_Report@yorklab.com Mail/Fax Hard Copies to: York Analytical at the address below

York Ref: 18K0528-06

Sample ID: SB-57C Matrix: Soil Date Sampled: 11/13/2018 09:27

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 09:27	

Containers Supplied:
10_250mL Plastic Cool to 4° C (A)

York Ref: 18K0528-07

Sample ID: SB-58A Matrix: Soil Date Sampled: 11/13/2018 09:34

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 09:34	

Containers Supplied:
10_250mL Plastic Cool to 4° C (A)

York Ref: 18K0528-08

Sample ID: SB-58B Matrix: Soil Date Sampled: 11/13/2018 09:55

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 09:55	

Containers Supplied:
10_250mL Plastic Cool to 4° C (A)

York Purchase Order No.: **18K0528**

Samples from State of: NY

Deliverables required: **NYSDEC ASP B**

Data Pkg DUE: 12/14/2018

EDDs required: **NYSDEC EQUIS**

Special Info:

Chain-of-Custody Information

Paul Grace 11/19/2018

Released By York Sample Control	Date	Received By	Date
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Received By	Date	Received in Subcontract Lab By	Date
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18K0702

YORK

Analytical Laboratories, Inc.

11/19/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody

York Project No.: **18K0528**

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Note: E-mail lab reports to: York_Lab_Report@yorklab.com Mail/Fax Hard Copies to: York Analytical at the address below

York Ref: 18K0528-09

Sample ID: SB-58C Matrix: Soil Date Sampled: 11/13/2018 10:03
Analysis Needed Date Due Holding Time Expires Comments
 PFAS in Soil by EPA 537m 11/30/2018 16:30 11/27/2018 10:03

Containers Supplied:
 10_250mL Plastic Cool to 4° C (A)

York Ref: 18K0528-10

Sample ID: SB-59A Matrix: Soil Date Sampled: 11/13/2018 10:18
Analysis Needed Date Due Holding Time Expires Comments
 PFAS in Soil by EPA 537m 11/30/2018 16:30 11/27/2018 10:18

Containers Supplied:
 10_250mL Plastic Cool to 4° C (A)

York Ref: 18K0528-11

Sample ID: SB-59B Matrix: Soil Date Sampled: 11/13/2018 10:29
Analysis Needed Date Due Holding Time Expires Comments
 PFAS in Soil by EPA 537m 11/30/2018 16:30 11/27/2018 10:29

Containers Supplied:
 10_250mL Plastic Cool to 4° C (A)

York Purchase Order No.: **18K0528**

Samples from State of: NY

Deliverables required: **NYSDEC ASP B**

Data Pkg DUE: 12/14/2018

EDDs required: **NYSDEC EQUIS**

Special Info:

Chain-of-Custody Information

Paul Grace 11/19/2018

Released By York Sample Control Date Received By Date

Received By Date Received in Subcontract Lab By Date

18K0702 **YORK**

Analytical Laboratories, Inc.

11/19/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody

York Project No.: 18K0528

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Note: E-mail lab reports to: York_Lab_Report@yorklab.com **Mail/Fax Hard Copies to:** York Analytical at the address below

York Ref: 18K0528-12

Sample ID: SB-59C

Matrix: Soil

Date Sampled: 11/13/2018 10:40

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
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PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 10:40	
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Containers Supplied:

10_250mL Plastic Cool to 4° C (A)

York Ref: 18K0528-13

Sample ID: SB-60A

Matrix: Soil

Date Sampled: 11/13/2018 10:57

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
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PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 10:57	
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Containers Supplied:

10_250mL Plastic Cool to 4° C (A)

York Ref: 18K0528-14

Sample ID: SB-60B

Matrix: Soil

Date Sampled: 11/13/2018 11:10

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
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PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 11:10	
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Containers Supplied:

10_250mL Plastic Cool to 4° C (A)

York Purchase Order No.: 18K0528

Samples from State of: NY

Deliverables required: NYSDEC ASP B

Data Pkg DUE: 12/14/2018

EDDs required: NYSDEC EQUIS

Special Info:

Chain-of-Custody Information

Paul Grace

11/19/2018

Released By York Sample Control	Date	Received By	Date
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Received By	Date	Received in Subcontract Lab By	Date
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18K0702

YORK

Analytical Laboratories, Inc.

11/19/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody

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Note: E-mail lab reports to: York_Lab_Report@yorklab.com **Mail/Fax Hard Copies to:** York Analytical at the address below

York Ref: 18K0528-15

Sample ID: SB-60C	Matrix: Soil	Date Sampled: 11/13/2018 11:30
<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 11:30

Containers Supplied:

10_250mL Plastic Cool to 4° C (A)

York Ref: 18K0528-16

Sample ID: SB-61A	Matrix: Soil	Date Sampled: 11/13/2018 10:50
<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 10:50

Containers Supplied:

10_250mL Plastic Cool to 4° C (A)

York Ref: 18K0528-17

Sample ID: SB-61B	Matrix: Soil	Date Sampled: 11/13/2018 12:02
<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 12:02

Containers Supplied:

10_250mL Plastic Cool to 4° C (A)

York Purchase Order No.: **18K0528**

Samples from State of: NY

Deliverables required: **NYSDEC ASP B**

Data Pkg DUE: 12/14/2018

EDDs required: **NYSDEC EQUIS**

Special Info:

Chain-of-Custody Information

Paul Grace 11/19/2018

Released By York Sample Control	Date	Received By	Date
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Received By	Date	Received in Subcontract Lab By	Date
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18K0702

YORK

Analytical Laboratories, Inc.

11/19/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody

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Note: E-mail lab reports to: York_Lab_Report@yorklab.com Mail/Fax Hard Copies to: York Analytical at the address below

York Ref: 18K0528-18

Sample ID: SB-61C Matrix: Soil Date Sampled: 11/13/2018 12:11

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 12:11	

Containers Supplied:
10_250mL Plastic Cool to 4° C (A)

York Ref: 18K0528-21

Sample ID: SB-64A Matrix: Soil Date Sampled: 11/13/2018 13:15

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 13:15	

Containers Supplied:
10_250mL Plastic Cool to 4° C (A)

York Ref: 18K0528-22

Sample ID: SB-64B Matrix: Soil Date Sampled: 11/13/2018 13:20

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 13:20	

Containers Supplied:
10_250mL Plastic Cool to 4° C (A)

York Purchase Order No.: **18K0528**

Samples from State of: NY

Deliverables required: **NYSDEC ASP B**

Data Pkg DUE: 12/14/2018

EDDs required: **NYSDEC EQUIS**

Special Info:

Chain-of-Custody Information

Paul Grace 11/19/2018

Released By York Sample Control	Date	Received By	Date
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Received By	Date	Received in Subcontract Lab By	Date
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18K0702

YORK

Analytical Laboratories, Inc.

11/19/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody

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Note: E-mail lab reports to: York_Lab_Report@yorklab.com Mail/Fax Hard Copies to: York Analytical at the address below

York Ref: 18K0528-23

Sample ID: SB-65A Matrix: Soil Date Sampled: 11/13/2018 13:30
Analysis Needed Date Due Holding Time Expires Comments
 PFAS in Soil by EPA 537m 11/30/2018 16:30 11/27/2018 13:30

21

Containers Supplied:
 10_250mL Plastic Cool to 4° C (A)

York Ref: 18K0528-24

Sample ID: SB-65B Matrix: Soil Date Sampled: 11/13/2018 13:35
Analysis Needed Date Due Holding Time Expires Comments
 PFAS in Soil by EPA 537m 11/30/2018 16:30 11/27/2018 13:35

22

Containers Supplied:
 10_250mL Plastic Cool to 4° C (A)

York Ref: 18K0528-25

Sample ID: SB-66A Matrix: Soil Date Sampled: 11/13/2018 13:41
Analysis Needed Date Due Holding Time Expires Comments
 PFAS in Soil by EPA 537m 11/30/2018 16:30 11/27/2018 13:41

23

Containers Supplied:
 10_250mL Plastic Cool to 4° C (A)

York Purchase Order No.: 18K0528

Samples from State of: NY

Deliverables required: NYSDEC ASP B

Data Pkg DUE: 12/14/2018

EDDs required: NYSDEC EQUIS

Special Info:

Chain-of-Custody Information

Paul Grace 11/19/2018

Released By York Sample Control Date Received By Date

Received By Date Received in Subcontract Lab By Date

18K0702

YORK

Analytical Laboratories, Inc.

11/19/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody

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Note: E-mail lab reports to: York_Lab_Report@yorklab.com **Mail/Fax Hard Copies to:** York Analytical at the address below

York Ref: 18K0528-26

24

Sample ID: SB-66B

Matrix: Soil

Date Sampled: 11/13/2018 13:49

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 13:49	

Containers Supplied:

10_250mL Plastic Cool to 4° C (A)

York Ref: 18K0528-27

25

Sample ID: SB-67A

Matrix: Soil

Date Sampled: 11/13/2018 13:57

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 13:57	

Containers Supplied:

10_250mL Plastic Cool to 4° C (A)

York Ref: 18K0528-28

26

Sample ID: SB-67B

Matrix: Soil

Date Sampled: 11/13/2018 14:00

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 14:00	

Containers Supplied:

10_250mL Plastic Cool to 4° C (A)

York Purchase Order No.: **18K0528**

Samples from State of: NY

Deliverables required: **NYSDEC ASP B**

Data Pkg DUE: 12/14/2018

EDDs required: **NYSDEC EQUIS**

Special Info:

Chain-of-Custody Information

Paul Grace

11/19/2018

Released By York Sample Control	Date	Received By	Date
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Received By	Date	Received in Subcontract Lab By	Date
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18K0702

YORK

Analytical Laboratories, Inc.

11/19/2018

SUBCONTRACT Notification, Purchase Order and Chain-of-Custody

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Note: E-mail lab reports to: York_Lab_Report@yorklab.com Mail/Fax Hard Copies to: York Analytical at the address below

York Ref: 18K0528-29

Sample ID: SB-68A Matrix: Soil Date Sampled: 11/13/2018 14:17

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
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PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 14:17	
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Containers Supplied:

10_250mL Plastic Cool to 4° C (A)

York Ref: 18K0528-30

Sample ID: SB-68B Matrix: Soil Date Sampled: 11/13/2018 14:20

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
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PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 14:20	
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Containers Supplied:

10_250mL Plastic Cool to 4° C (A)

York Ref: 18K0528-31

Sample ID: SB-69A Matrix: Soil Date Sampled: 11/13/2018 14:44

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
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PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 14:44	
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Containers Supplied:

10_250mL Plastic Cool to 4° C (A)

York Purchase Order No.: **18K0528**

Samples from State of: NY

Deliverables required: **NYSDEC ASP B**

Data Pkg DUE: 12/14/2018

EDDs required: **NYSDEC EQUIS**

Special Info:

Chain-of-Custody Information

Paul Grace 11/19/2018

Released By York Sample Control	Date	Received By	Date
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Received By	Date	Received in Subcontract Lab By	Date
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18K0702

YORK

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11/19/2018

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Note: E-mail lab reports to: York_Lab_Report@yorklab.com Mail/Fax Hard Copies to: York Analytical at the address below

York Ref: 18K0528-32

Sample ID: SB-69B

Matrix: Soil

Date Sampled: 11/13/2018 14:50

<u>Analysis Needed</u>	<u>Date Due</u>	<u>Holding Time Expires</u>	<u>Comments</u>
PFAS in Soil by EPA 537m	11/30/2018 16:30	11/27/2018 14:50	

Containers Supplied:

10_250mL Plastic Cool to 4° C (A)

York Purchase Order No.: **18K0528**

Samples from State of: NY

Deliverables required: **NYSDEC ASP B**

Data Pkg DUE: 12/14/2018

EDDs required: **NYSDEC EQUIS**

Special Info:

Chain-of-Custody Information

Paul Grace

11/19/2018

Released By York Sample Control	Date	Received By	Date
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Received By	Date	Received in Subcontract Lab By	Date
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Appendix E
CAMP Results



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17/06/13 23:37

Summary

Unit Name MiniRAE 3000(PGM-7320)
Unit SN 592-919490
Unit Firmware Ver V2.14

Running Mode Hygiene Mode
Datalog Mode Auto
Diagnostic Mode Yes
Stop Reason Pause in Menu Mode

Site ID RAE00000
User ID USER0000

Begin 6/13/2017 23:37:22
End 6/13/2017 23:48:55
Sample Period(s) 60
Number of Records 11

Sensor PID(ppm)
Sensor SN S023030231U6
Measure Type Min; Avg; Max; Real
Span 100.0
Span 2 1000.0
Low Alarm 50.0
High Alarm 100.0
Over Alarm 15000.0
STEL Alarm 25.0
TWA Alarm 10.0
Measurement Gas Isobutylene
Calibration Time 6/13/2017 22:49
Peak 0
Min 0
Average 0

Datalog

Index	Date/Time	PID(ppm) (Min)	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)	PID(ppm)
001	6/13/2017 23:38:22	267	0	0	0	0
002	6/13/2017 23:39:22	267	0	0	0	0
003	6/13/2017 23:40:22	267	0	0	0	0
004	6/13/2017 23:41:22	267	0	0	0	0
005	6/13/2017 23:42:22	267	0	0	0	0
006	6/13/2017 23:43:22	267	0	0	0	0

PRS_EXPORT_20181119.txt39390

007	6/13/2017	23:44:22	267	0	0	0
008	6/13/2017	23:45:22	267	0	0	0
009	6/13/2017	23:46:22	267	0	0	0
010	6/13/2017	23:47:22	267	0	0	0
011	6/13/2017	23:48:22	267	0	0	0
Peak	267	0	0	0		
Min	267	0	0	0		
Average	267	0	0	0		

=====
17/06/13 23:49

Summary

Unit Name MiniRAE 3000(PGM-7320)
Unit SN 592-919490
Unit Firmware Ver V2.14

Running Mode Hygiene Mode
Datalog Mode Auto
Diagnostic Mode Yes
Stop Reason Power Down

Site ID RAE00000
User ID USER0000

Begin 6/13/2017 23:49:14
End 6/13/2017 23:49:40
Sample Period(s) 60
Number of Records 0

Sensor PID(ppm)
Sensor SN S023030231U6
Measure Type Min; Avg; Max; Real
Span 100.0
Span 2 1000.0
Low Alarm 50.0
High Alarm 100.0
Over Alarm 15000.0
STEL Alarm 25.0
TWA Alarm 10.0
Measurement Gas Isobutylene
Calibration Time 6/13/2017 22:49

Datalog

0 record.

=====
17/06/13 23:51

Summary

Unit Name MiniRAE 3000(PGM-7320)
Unit SN 592-919490
Unit Firmware Ver V2.14

Running Mode Hygiene Mode
Datalog Mode Auto
Diagnostic Mode No
Stop Reason Power Down

Site ID RAE00000
User ID USER0000

Begin 6/13/2017 23:51:16
End 6/13/2017 23:51:33
Sample Period(s) 60
Number of Records 0

Sensor PID(ppm)
Sensor SN S023030231U6
Measure Type Avg
Span 100.0
Span 2 1000.0
Low Alarm 50.0
High Alarm 100.0
Over Alarm 15000.0
STEL Alarm 25.0
TWA Alarm 10.0
Measurement Gas Isobutylene
Calibration Time 6/13/2017 22:49

Datalog

0 record.

=====
17/06/14 01:35

Summary

Unit Name MiniRAE 3000(PGM-7320)
Unit SN 592-919490

Unit Firmware Ver V2.14

Running Mode Hygiene Mode
Datalog Mode Auto
Diagnostic Mode No
Stop Reason Pause in Menu Mode

Site ID RAE00000
User ID USER0000

Begin 6/14/2017 01:35:53
End 6/14/2017 01:36:50
Sample Period(s) 60
Number of Records 0

Sensor PID(ppm)
Sensor SN S023030231U6
Measure Type Avg
Span 100.0
Span 2 1000.0
Low Alarm 50.0
High Alarm 100.0
Over Alarm 15000.0
STEL Alarm 25.0
TWA Alarm 10.0
Measurement Gas Isobutylene
Calibration Time 6/13/2017 22:49

Datalog

0 record.

17/06/14 01:36

Summary

Unit Name MiniRAE 3000(PGM-7320)
Unit SN 592-919490
Unit Firmware Ver V2.14

Running Mode Hygiene Mode
Datalog Mode Auto
Diagnostic Mode No
Stop Reason Pause in Menu Mode

Site ID RAE00000

User ID USER0000

```

-----
Begin   6/14/2017 01:36:53
End     6/14/2017 01:38:26
Sample Period(s)    60
Number of Records   1
-----

```

```

-----
Sensor  PID(ppm)
Sensor SN      S023030231U6
Measure Type   Avg
Span          100.0
Span 2        1000.0
Low Alarm      50.0
High Alarm     100.0
Over Alarm     15000.0
STEL Alarm     25.0
TWA Alarm      10.0
Measurement Gas Isobutylene
Calibration Time      6/13/2017 22:49
Peak           N/A
Min           N/A
Average       N/A
-----

```

Datalog

```

          PID(ppm)
Index  Date/Time      (Avg)
001    6/14/2017 01:37:53    0.0
Peak           0.0
Min           0.0
Average       0.0

```

=====
17/06/14 01:38

Summary

```

-----
Unit Name      MiniRAE 3000(PGM-7320)
Unit SN 592-919490
Unit Firmware Ver    V2.14
-----

```

```

-----
Running Mode    Hygiene Mode
Datalog Mode    Auto
Diagnostic Mode No
Stop Reason     Power Down
-----

```

```

-----
Site ID RAE00000
User ID USER0000
-----

```

Begin 6/14/2017 01:38:30
End 6/14/2017 01:38:51
Sample Period(s) 60
Number of Records 0

Sensor PID(ppm)
Sensor SN S023030231U6
Measure Type Avg
Span 100.0
Span 2 1000.0
Low Alarm 50.0
High Alarm 100.0
Over Alarm 15000.0
STEL Alarm 25.0
TWA Alarm 10.0
Measurement Gas Isobutylene
Calibration Time 6/13/2017 22:49

Datalog

0 record.

=====
17/06/14 01:40

Summary

Unit Name MiniRAE 3000(PGM-7320)
Unit SN 592-919490
Unit Firmware Ver V2.14

Running Mode Hygiene Mode
Datalog Mode Auto
Diagnostic Mode No
Stop Reason Power Down

Site ID RAE00000
User ID USER0000

Begin 6/14/2017 01:40:01
End 6/14/2017 01:40:22
Sample Period(s) 60
Number of Records 0

Sensor PID(ppm)
Sensor SN S023030231U6

Measure Type Avg
Span 100.0
Span 2 1000.0
Low Alarm 50.0
High Alarm 100.0
Over Alarm 15000.0
STEL Alarm 25.0
TWA Alarm 10.0
Measurement Gas Isobutylene
Calibration Time 6/13/2017 22:49

Datalog

0 record.

=====

17/06/26 13:38

Summary

Unit Name MiniRAE 3000(PGM-7320)
Unit SN 592-919490
Unit Firmware Ver V2.14

Running Mode Hygiene Mode
Datalog Mode Auto
Diagnostic Mode No
Stop Reason Power Down

Site ID RAE00000
User ID USER0000

Begin 6/26/2017 13:38:49
End 6/26/2017 13:41:23
Sample Period(s) 60
Number of Records 2

Sensor PID(ppm)
Sensor SN S023030231U6
Measure Type Avg
Span 100.0
Span 2 1000.0
Low Alarm 50.0
High Alarm 100.0
Over Alarm 15000.0
STEL Alarm 25.0
TWA Alarm 10.0

Measurement Gas Isobutylene
Calibration Time 6/13/2017 22:49
Peak N/A
Min N/A
Average N/A

Datalog

Index	Date/Time	PID(ppm) (Avg)
001	6/26/2017 13:39:49	0.0
002	6/26/2017 13:40:49	0.0
Peak	0.0	
Min	0.0	
Average	0.0	

=====

17/08/15 12:37

Summary

Unit Name MiniRAE 3000(PGM-7320)
 Unit SN 592-919490
 Unit Firmware Ver V2.14

Running Mode Hygiene Mode
 Datalog Mode Auto
 Diagnostic Mode No
 Stop Reason Pause in Menu Mode

Site ID RAE0000
 User ID USER0000

Begin 8/15/2017 12:37:34
 End 8/15/2017 12:43:28
 Sample Period(s) 60
 Number of Records 5

Sensor PID(ppm)
 Sensor SN S023030231U6
 Measure Type Avg
 Span 100.0
 Span 2 1000.0
 Low Alarm 50.0
 High Alarm 100.0
 Over Alarm 15000.0
 STEL Alarm 25.0
 TWA Alarm 10.0

Measurement Gas Isobutylene
Calibration Time 6/13/2017 22:49
Peak N/A
Min N/A
Average N/A

Datalog

Index	Date/Time	PID(ppm) (Avg)	
001	8/15/2017 12:38:34		4.5
002	8/15/2017 12:39:34		5.1
003	8/15/2017 12:40:34		4.4
004	8/15/2017 12:41:34		4.6
005	8/15/2017 12:42:34		4.7
Peak		5.1	
Min		4.4	
Average		4.7	

=====

17/08/15 12:46

Summary

Unit Name MiniRAE 3000(PGM-7320)
Unit SN 592-919490
Unit Firmware Ver V2.14

Running Mode Hygiene Mode
Datalog Mode Auto
Diagnostic Mode No
Stop Reason Power Down

Site ID RAE00000
User ID USER0000

Begin 8/15/2017 12:46:10
End 8/15/2017 12:46:55
Sample Period(s) 60
Number of Records 0

Sensor PID(ppm)
Sensor SN S023030231U6
Measure Type Avg
Span 100.0
Span 2 1000.0
Low Alarm 50.0
High Alarm 100.0

Over Alarm 15000.0
STEL Alarm 25.0
TWA Alarm 10.0
Measurement Gas Isobutylene
Calibration Time 8/15/2017 12:46

Datalog

0 record.

=====

17/08/17 17:01

Summary

Unit Name MiniRAE 3000(PGM-7320)
Unit SN 592-919490
Unit Firmware Ver V2.14

Running Mode Hygiene Mode
Datalog Mode Auto
Diagnostic Mode No
Stop Reason Power Down

Site ID RAE00000
User ID USER0000

Begin 8/17/2017 17:01:58
End 8/17/2017 17:05:44
Sample Period(s) 60
Number of Records 3

Sensor PID(ppm)
Sensor SN S023030231U6
Measure Type Avg
Span 100.0
Span 2 1000.0
Low Alarm 50.0
High Alarm 100.0
Over Alarm 15000.0
STEL Alarm 25.0
TWA Alarm 10.0
Measurement Gas Isobutylene
Calibration Time 8/15/2017 12:46
Peak N/A
Min N/A
Average N/A

Datalog

Index	Date/Time	PID(ppm) (Avg)	
001	8/17/2017 17:02:58		0.0
002	8/17/2017 17:03:58		4.6
003	8/17/2017 17:04:58		5.4
Peak		5.4	
Min		0.0	
Average		3.3	

=====

17/08/18 05:35

Summary

Unit Name MiniRAE 3000(PGM-7320)
Unit SN 592-919490
Unit Firmware Ver V2.14

Running Mode Hygiene Mode
Datalog Mode Auto
Diagnostic Mode No
Stop Reason Pause in Menu Mode

Site ID RAE00000
User ID USER0000

Begin 8/18/2017 05:35:14
End 8/18/2017 05:38:22
Sample Period(s) 60
Number of Records 3

Sensor PID(ppm)
Sensor SN S023030231U6
Measure Type Avg
Span 100.0
Span 2 1000.0
Low Alarm 50.0
High Alarm 100.0
Over Alarm 15000.0
STEL Alarm 25.0
TWA Alarm 10.0
Measurement Gas Isobutylene
Calibration Time 8/15/2017 12:46
Peak N/A
Min N/A

Average N/A

Datalog

Index	Date/Time	PID(ppm) (Avg)
001	8/18/2017 05:36:14	0.0
002	8/18/2017 05:37:14	0.0
003	8/18/2017 05:38:14	0.0
Peak	0.0	
Min	0.0	
Average	0.0	

=====

17/08/18 05:40

Summary

Unit Name MiniRAE 3000(PGM-7320)
 Unit SN 592-919490
 Unit Firmware Ver V2.14

Running Mode Hygiene Mode
 Datalog Mode Auto
 Diagnostic Mode No
 Stop Reason Battery Low

Site ID RAE00000
 User ID USER0000

Begin 8/18/2017 05:40:48
 End 8/18/2017 07:30:23
 Sample Period(s) 60
 Number of Records 109

Sensor PID(ppm)
 Sensor SN S023030231U6
 Measure Type Avg
 Span 100.0
 Span 2 1000.0
 Low Alarm 50.0
 High Alarm 100.0
 Over Alarm 15000.0
 STEL Alarm 25.0
 TWA Alarm 10.0
 Measurement Gas Isobutylene
 Calibration Time 8/18/2017 05:40
 Peak N/A

Min N/A
 Average N/A

Datalog

Index	Date/Time	PID(ppm) (Avg)
001	8/18/2017 05:41:48	29.4
002	8/18/2017 05:42:48	0.0
003	8/18/2017 05:43:48	0.0
004	8/18/2017 05:44:48	0.0
005	8/18/2017 05:45:48	0.0
006	8/18/2017 05:46:48	0.0
007	8/18/2017 05:47:48	0.0
008	8/18/2017 05:48:48	0.0
009	8/18/2017 05:49:48	0.0
010	8/18/2017 05:50:48	0.0
011	8/18/2017 05:51:48	0.0
012	8/18/2017 05:52:48	0.0
013	8/18/2017 05:53:48	0.0
014	8/18/2017 05:54:48	0.0
015	8/18/2017 05:55:48	0.0
016	8/18/2017 05:56:48	0.0
017	8/18/2017 05:57:48	0.0
018	8/18/2017 05:58:48	0.0
019	8/18/2017 05:59:48	0.0
020	8/18/2017 06:00:48	0.0
021	8/18/2017 06:01:48	0.0
022	8/18/2017 06:02:48	0.0
023	8/18/2017 06:03:48	0.0
024	8/18/2017 06:04:48	0.0
025	8/18/2017 06:05:48	0.0
026	8/18/2017 06:06:48	0.0
027	8/18/2017 06:07:48	0.0
028	8/18/2017 06:08:48	0.0
029	8/18/2017 06:09:48	0.0
030	8/18/2017 06:10:48	0.0
031	8/18/2017 06:11:48	0.0
032	8/18/2017 06:12:48	0.0
033	8/18/2017 06:13:48	0.0
034	8/18/2017 06:14:48	0.0
035	8/18/2017 06:15:48	0.0
036	8/18/2017 06:16:48	0.0
037	8/18/2017 06:17:48	0.0
038	8/18/2017 06:18:48	0.0
039	8/18/2017 06:19:48	0.0
040	8/18/2017 06:20:48	0.0
041	8/18/2017 06:21:48	0.0

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042	8/18/2017	06:22:48	0.0
043	8/18/2017	06:23:48	0.0
044	8/18/2017	06:24:48	0.0
045	8/18/2017	06:25:48	0.0
046	8/18/2017	06:26:48	0.0
047	8/18/2017	06:27:48	0.0
048	8/18/2017	06:28:48	0.0
049	8/18/2017	06:29:48	0.0
050	8/18/2017	06:30:48	0.0
051	8/18/2017	06:31:48	0.0
052	8/18/2017	06:32:48	0.0
053	8/18/2017	06:33:48	0.0
054	8/18/2017	06:34:48	0.0
055	8/18/2017	06:35:48	0.0
056	8/18/2017	06:36:48	0.0
057	8/18/2017	06:37:48	0.0
058	8/18/2017	06:38:48	0.0
059	8/18/2017	06:39:48	0.0
060	8/18/2017	06:40:48	0.0
061	8/18/2017	06:41:48	0.0
062	8/18/2017	06:42:48	0.0
063	8/18/2017	06:43:48	0.0
064	8/18/2017	06:44:48	0.0
065	8/18/2017	06:45:48	0.0
066	8/18/2017	06:46:48	0.0
067	8/18/2017	06:47:48	0.0
068	8/18/2017	06:48:48	0.0
069	8/18/2017	06:49:48	0.0
070	8/18/2017	06:50:48	0.0
071	8/18/2017	06:51:48	0.0
072	8/18/2017	06:52:48	0.0
073	8/18/2017	06:53:48	0.0
074	8/18/2017	06:54:48	0.0
075	8/18/2017	06:55:48	0.0
076	8/18/2017	06:56:48	0.0
077	8/18/2017	06:57:48	0.0
078	8/18/2017	06:58:48	0.0
079	8/18/2017	06:59:48	4.4
080	8/18/2017	07:00:48	5.4
081	8/18/2017	07:01:48	13.1
082	8/18/2017	07:02:48	1.3
083	8/18/2017	07:03:48	0.9
084	8/18/2017	07:04:48	0.8
085	8/18/2017	07:05:48	0.6
086	8/18/2017	07:06:48	0.5
087	8/18/2017	07:07:48	0.4
088	8/18/2017	07:08:48	0.4
089	8/18/2017	07:09:48	0.3

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090	8/18/2017 07:10:48	0.2
091	8/18/2017 07:11:48	0.2
092	8/18/2017 07:12:48	0.1
093	8/18/2017 07:13:48	0.1
094	8/18/2017 07:14:48	0.1
095	8/18/2017 07:15:48	0.0
096	8/18/2017 07:16:48	0.0
097	8/18/2017 07:17:48	0.0
098	8/18/2017 07:18:48	0.0
099	8/18/2017 07:19:48	0.0
100	8/18/2017 07:20:48	0.0
101	8/18/2017 07:21:48	0.0
102	8/18/2017 07:22:48	0.0
103	8/18/2017 07:23:48	0.0
104	8/18/2017 07:24:48	0.0
105	8/18/2017 07:25:48	0.0
106	8/18/2017 07:26:48	0.0
107	8/18/2017 07:27:48	0.0
108	8/18/2017 07:28:48	0.0
109	8/18/2017 07:29:48	0.0

Peak 29.4
Min 0.0
Average 0.5

=====
17/08/18 07:33

Summary

Unit Name MiniRAE 3000(PGM-7320)
Unit SN 592-919490
Unit Firmware Ver V2.14

Running Mode Hygiene Mode
Datalog Mode Auto
Diagnostic Mode No
Stop Reason Power Down

Site ID RAE00000
User ID USER0000

Begin 8/18/2017 07:33:24
End 8/18/2017 09:22:35
Sample Period(s) 60
Number of Records 109

Sensor PID(ppm)
Sensor SN S023030231U6

Measure Type Avg
Span 100.0
Span 2 1000.0
Low Alarm 50.0
High Alarm 100.0
Over Alarm 15000.0
STEL Alarm 25.0
TWA Alarm 10.0
Measurement Gas Isobutylene
Calibration Time 8/18/2017 05:40
Peak N/A
Min N/A
Average N/A

Datalog

Index	Date/Time	PID(ppm) (Avg)	
001	8/18/2017 07:34:24	0.0	
002	8/18/2017 07:35:24	0.0	
003	8/18/2017 07:36:24	0.0	
004	8/18/2017 07:37:24	0.0	
005	8/18/2017 07:38:24	0.0	
006	8/18/2017 07:39:24	0.0	
007	8/18/2017 07:40:24	0.0	
008	8/18/2017 07:41:24	0.0	
009	8/18/2017 07:42:24	0.0	
010	8/18/2017 07:43:24	0.0	
011	8/18/2017 07:44:24	0.0	
012	8/18/2017 07:45:24	0.0	
013	8/18/2017 07:46:24	0.0	
014	8/18/2017 07:47:24	0.0	
015	8/18/2017 07:48:24	0.0	
016	8/18/2017 07:49:24	0.0	
017	8/18/2017 07:50:24	0.0	
018	8/18/2017 07:51:24	0.0	
019	8/18/2017 07:52:24	0.0	
020	8/18/2017 07:53:24	0.0	
021	8/18/2017 07:54:24	0.0	
022	8/18/2017 07:55:24	0.0	
023	8/18/2017 07:56:24	0.0	
024	8/18/2017 07:57:24	0.0	
025	8/18/2017 07:58:24	0.0	
026	8/18/2017 07:59:24	0.0	
027	8/18/2017 08:00:24	0.0	
028	8/18/2017 08:01:24	0.0	
029	8/18/2017 08:02:24	0.0	
030	8/18/2017 08:03:24	0.0	

PRS_EXPORT_20181119.txt39390

031	8/18/2017	08:04:24	0.0
032	8/18/2017	08:05:24	0.0
033	8/18/2017	08:06:24	0.0
034	8/18/2017	08:07:24	0.0
035	8/18/2017	08:08:24	0.0
036	8/18/2017	08:09:24	0.0
037	8/18/2017	08:10:24	0.0
038	8/18/2017	08:11:24	0.0
039	8/18/2017	08:12:24	0.0
040	8/18/2017	08:13:24	0.0
041	8/18/2017	08:14:24	0.0
042	8/18/2017	08:15:24	0.0
043	8/18/2017	08:16:24	0.0
044	8/18/2017	08:17:24	0.0
045	8/18/2017	08:18:24	0.0
046	8/18/2017	08:19:24	0.0
047	8/18/2017	08:20:24	0.0
048	8/18/2017	08:21:24	0.0
049	8/18/2017	08:22:24	0.0
050	8/18/2017	08:23:24	0.0
051	8/18/2017	08:24:24	0.0
052	8/18/2017	08:25:24	5.5
053	8/18/2017	08:26:24	21.9
054	8/18/2017	08:27:24	0.7
055	8/18/2017	08:28:24	0.1
056	8/18/2017	08:29:24	0.0
057	8/18/2017	08:30:24	0.0
058	8/18/2017	08:31:24	0.0
059	8/18/2017	08:32:24	1.2
060	8/18/2017	08:33:24	52.5
061	8/18/2017	08:34:24	41.6
062	8/18/2017	08:35:24	17.1
063	8/18/2017	08:36:24	0.4
064	8/18/2017	08:37:24	0.4
065	8/18/2017	08:38:24	0.5
066	8/18/2017	08:39:24	0.0
067	8/18/2017	08:40:24	0.0
068	8/18/2017	08:41:24	0.0
069	8/18/2017	08:42:24	0.1
070	8/18/2017	08:43:24	0.0
071	8/18/2017	08:44:24	0.0
072	8/18/2017	08:45:24	19.9
073	8/18/2017	08:46:24	65.2
074	8/18/2017	08:47:24	2.9
075	8/18/2017	08:48:24	1.0
076	8/18/2017	08:49:24	0.7
077	8/18/2017	08:50:24	0.7
078	8/18/2017	08:51:24	0.4

PRS_EXPORT_20181119.txt39390

079	8/18/2017 08:52:24	0.4
080	8/18/2017 08:53:24	0.4
081	8/18/2017 08:54:24	0.4
082	8/18/2017 08:55:24	0.0
083	8/18/2017 08:56:24	0.0
084	8/18/2017 08:57:24	0.0
085	8/18/2017 08:58:24	0.0
086	8/18/2017 08:59:24	0.0
087	8/18/2017 09:00:24	0.0
088	8/18/2017 09:01:24	0.0
089	8/18/2017 09:02:24	0.0
090	8/18/2017 09:03:24	0.0
091	8/18/2017 09:04:24	0.0
092	8/18/2017 09:05:24	0.0
093	8/18/2017 09:06:24	0.0
094	8/18/2017 09:07:24	0.0
095	8/18/2017 09:08:24	3.4
096	8/18/2017 09:09:24	0.2
097	8/18/2017 09:10:24	0.5
098	8/18/2017 09:11:24	0.1
099	8/18/2017 09:12:24	12.1
100	8/18/2017 09:13:24	42.4
101	8/18/2017 09:14:24	2.1
102	8/18/2017 09:15:24	0.9
103	8/18/2017 09:16:24	1.4
104	8/18/2017 09:17:24	1.4
105	8/18/2017 09:18:24	1.1
106	8/18/2017 09:19:24	0.6
107	8/18/2017 09:20:24	0.4
108	8/18/2017 09:21:24	0.2
109	8/18/2017 09:22:24	0.7

Peak 65.2
Min 0.0
Average 2.8

=====
17/08/18 10:44

Summary

Unit Name MiniRAE 3000(PGM-7320)
Unit SN 592-919490
Unit Firmware Ver V2.14

Running Mode Hygiene Mode
Datalog Mode Auto
Diagnostic Mode No
Stop Reason Power Down

Site ID RAE00000
User ID USER0000

Begin 8/18/2017 10:44:17
End 8/18/2017 11:14:38
Sample Period(s) 60
Number of Records 30

Sensor PID(ppm)
Sensor SN S023030231U6
Measure Type Avg
Span 100.0
Span 2 1000.0
Low Alarm 50.0
High Alarm 100.0
Over Alarm 15000.0
STEL Alarm 25.0
TWA Alarm 10.0
Measurement Gas Isobutylene
Calibration Time 8/18/2017 05:40
Peak N/A
Min N/A
Average N/A

Datalog

Index	Date/Time	PID(ppm) (Avg)
001	8/18/2017 10:45:17	0.0
002	8/18/2017 10:46:17	0.0
003	8/18/2017 10:47:17	0.0
004	8/18/2017 10:48:17	0.0
005	8/18/2017 10:49:17	0.0
006	8/18/2017 10:50:17	0.0
007	8/18/2017 10:51:17	0.0
008	8/18/2017 10:52:17	0.0
009	8/18/2017 10:53:17	0.0
010	8/18/2017 10:54:17	0.0
011	8/18/2017 10:55:17	0.0
012	8/18/2017 10:56:17	0.0
013	8/18/2017 10:57:17	0.0
014	8/18/2017 10:58:17	0.0
015	8/18/2017 10:59:17	0.0
016	8/18/2017 11:00:17	0.0
017	8/18/2017 11:01:17	0.0
018	8/18/2017 11:02:17	0.0
019	8/18/2017 11:03:17	0.0

020	8/18/2017	11:04:17	0.0
021	8/18/2017	11:05:17	0.0
022	8/18/2017	11:06:17	0.0
023	8/18/2017	11:07:17	0.0
024	8/18/2017	11:08:17	0.0
025	8/18/2017	11:09:17	0.0
026	8/18/2017	11:10:17	0.0
027	8/18/2017	11:11:17	0.0
028	8/18/2017	11:12:17	0.0
029	8/18/2017	11:13:17	0.0
030	8/18/2017	11:14:17	0.0
Peak		0.0	
Min		0.0	
Average		0.0	

=====
17/08/21 07:19

Summary

Unit Name MiniRAE 3000(PGM-7320)
Unit SN 592-919490
Unit Firmware Ver V2.14

Running Mode Hygiene Mode
Datalog Mode Auto
Diagnostic Mode No
Stop Reason Pause in Menu Mode

Site ID RAE00000
User ID USER0000

Begin 8/21/2017 07:19:13
End 8/21/2017 07:21:56
Sample Period(s) 60
Number of Records 2

Sensor PID(ppm)
Sensor SN S023030231U6
Measure Type Avg
Span 100.0
Span 2 1000.0
Low Alarm 50.0
High Alarm 100.0
Over Alarm 15000.0
STEL Alarm 25.0
TWA Alarm 10.0
Measurement Gas Isobutylene

Calibration Time 8/18/2017 05:40
Peak N/A
Min N/A
Average N/A

Datalog

Index	Date/Time	PID(ppm)	(Avg)
001	8/21/2017 07:20:13	0.0	
002	8/21/2017 07:21:13	30.6	
Peak		30.6	
Min		0.0	
Average		15.3	

=====

18/11/01 09:47

Summary

Unit Name MiniRAE 3000(PGM-7320)
Unit SN 592-919490
Unit Firmware Ver V2.14

Running Mode Hygiene Mode
Datalog Mode Manual
Diagnostic Mode No
Stop Reason Power Down

Site ID RAE00000
User ID USER0000

Begin 11/1/2018 09:47:59
End 11/1/2018 15:02:39
Sample Period(s) 60
Number of Records 314

Sensor PID(ppm)
Sensor SN S023030231U6
Measure Type Avg
Span 100.0
Span 2 1000.0
Low Alarm 50.0
High Alarm 100.0
Over Alarm 15000.0
STEL Alarm 9100.0
TWA Alarm 50.0
Measurement Gas Isobutylene

Calibration Time 10/31/2018 15:19
Peak N/A
Min N/A
Average N/A

Datalog

Index	Date/Time	PID(ppm) (Avg)	
001	11/1/2018 09:48:59		0.0
002	11/1/2018 09:49:59		0.0
003	11/1/2018 09:50:59		0.0
004	11/1/2018 09:51:59		0.0
005	11/1/2018 09:52:59		0.0
006	11/1/2018 09:53:59		0.0
007	11/1/2018 09:54:59		0.0
008	11/1/2018 09:55:59		0.0
009	11/1/2018 09:56:59		0.0
010	11/1/2018 09:57:59		0.0
011	11/1/2018 09:58:59		0.0
012	11/1/2018 09:59:59		0.0
013	11/1/2018 10:00:59		0.0
014	11/1/2018 10:01:59		0.0
015	11/1/2018 10:02:59		0.0
016	11/1/2018 10:03:59		0.0
017	11/1/2018 10:04:59		0.0
018	11/1/2018 10:05:59		0.0
019	11/1/2018 10:06:59		0.0
020	11/1/2018 10:07:59		0.0
021	11/1/2018 10:08:59		0.0
022	11/1/2018 10:09:59		0.0
023	11/1/2018 10:10:59		0.0
024	11/1/2018 10:11:59		0.0
025	11/1/2018 10:12:59		0.0
026	11/1/2018 10:13:59		0.0
027	11/1/2018 10:14:59		0.0
028	11/1/2018 10:15:59		0.0
029	11/1/2018 10:16:59		0.0
030	11/1/2018 10:17:59		0.0
031	11/1/2018 10:18:59		0.0
032	11/1/2018 10:19:59		0.0
033	11/1/2018 10:20:59		0.0
034	11/1/2018 10:21:59		0.0
035	11/1/2018 10:22:59		0.0
036	11/1/2018 10:23:59		0.0
037	11/1/2018 10:24:59		0.0
038	11/1/2018 10:25:59		0.0
039	11/1/2018 10:26:59		0.0

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040	11/1/2018	10:27:59	0.0
041	11/1/2018	10:28:59	0.0
042	11/1/2018	10:29:59	0.0
043	11/1/2018	10:30:59	0.0
044	11/1/2018	10:31:59	0.0
045	11/1/2018	10:32:59	0.0
046	11/1/2018	10:33:59	0.0
047	11/1/2018	10:34:59	0.0
048	11/1/2018	10:35:59	0.0
049	11/1/2018	10:36:59	0.0
050	11/1/2018	10:37:59	0.0
051	11/1/2018	10:38:59	0.0
052	11/1/2018	10:39:59	0.0
053	11/1/2018	10:40:59	0.0
054	11/1/2018	10:41:59	0.0
055	11/1/2018	10:42:59	0.0
056	11/1/2018	10:43:59	0.0
057	11/1/2018	10:44:59	0.0
058	11/1/2018	10:45:59	0.0
059	11/1/2018	10:46:59	0.0
060	11/1/2018	10:47:59	0.0
061	11/1/2018	10:48:59	0.0
062	11/1/2018	10:49:59	0.0
063	11/1/2018	10:50:59	0.0
064	11/1/2018	10:51:59	0.0
065	11/1/2018	10:52:59	0.0
066	11/1/2018	10:53:59	0.0
067	11/1/2018	10:54:59	0.0
068	11/1/2018	10:55:59	0.0
069	11/1/2018	10:56:59	0.0
070	11/1/2018	10:57:59	0.0
071	11/1/2018	10:58:59	0.0
072	11/1/2018	10:59:59	0.0
073	11/1/2018	11:00:59	0.0
074	11/1/2018	11:01:59	0.0
075	11/1/2018	11:02:59	0.0
076	11/1/2018	11:03:59	0.0
077	11/1/2018	11:04:59	0.0
078	11/1/2018	11:05:59	0.0
079	11/1/2018	11:06:59	0.0
080	11/1/2018	11:07:59	0.0
081	11/1/2018	11:08:59	0.0
082	11/1/2018	11:09:59	0.0
083	11/1/2018	11:10:59	0.0
084	11/1/2018	11:11:59	0.0
085	11/1/2018	11:12:59	0.0
086	11/1/2018	11:13:59	0.0
087	11/1/2018	11:14:59	0.0

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088	11/1/2018	11:15:59	0.0
089	11/1/2018	11:16:59	0.0
090	11/1/2018	11:17:59	0.0
091	11/1/2018	11:18:59	0.0
092	11/1/2018	11:19:59	0.0
093	11/1/2018	11:20:59	0.0
094	11/1/2018	11:21:59	0.0
095	11/1/2018	11:22:59	0.0
096	11/1/2018	11:23:59	0.0
097	11/1/2018	11:24:59	0.0
098	11/1/2018	11:25:59	0.0
099	11/1/2018	11:26:59	0.0
100	11/1/2018	11:27:59	0.0
101	11/1/2018	11:28:59	0.0
102	11/1/2018	11:29:59	0.0
103	11/1/2018	11:30:59	0.0
104	11/1/2018	11:31:59	0.0
105	11/1/2018	11:32:59	0.0
106	11/1/2018	11:33:59	0.0
107	11/1/2018	11:34:59	0.0
108	11/1/2018	11:35:59	0.0
109	11/1/2018	11:36:59	0.0
110	11/1/2018	11:37:59	0.0
111	11/1/2018	11:38:59	0.0
112	11/1/2018	11:39:59	0.0
113	11/1/2018	11:40:59	0.0
114	11/1/2018	11:41:59	0.0
115	11/1/2018	11:42:59	0.0
116	11/1/2018	11:43:59	0.0
117	11/1/2018	11:44:59	0.0
118	11/1/2018	11:45:59	0.0
119	11/1/2018	11:46:59	0.0
120	11/1/2018	11:47:59	0.0
121	11/1/2018	11:48:59	0.0
122	11/1/2018	11:49:59	0.0
123	11/1/2018	11:50:59	0.0
124	11/1/2018	11:51:59	0.0
125	11/1/2018	11:52:59	0.0
126	11/1/2018	11:53:59	0.0
127	11/1/2018	11:54:59	0.0
128	11/1/2018	11:55:59	0.0
129	11/1/2018	11:56:59	0.0
130	11/1/2018	11:57:59	0.0
131	11/1/2018	11:58:59	0.0
132	11/1/2018	11:59:59	0.0
133	11/1/2018	12:00:59	0.0
134	11/1/2018	12:01:59	0.0
135	11/1/2018	12:02:59	0.0

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136	11/1/2018	12:03:59	0.0
137	11/1/2018	12:04:59	0.0
138	11/1/2018	12:05:59	0.0
139	11/1/2018	12:06:59	0.0
140	11/1/2018	12:07:59	0.0
141	11/1/2018	12:08:59	0.0
142	11/1/2018	12:09:59	0.0
143	11/1/2018	12:10:59	0.0
144	11/1/2018	12:11:59	0.0
145	11/1/2018	12:12:59	0.0
146	11/1/2018	12:13:59	0.0
147	11/1/2018	12:14:59	0.0
148	11/1/2018	12:15:59	0.0
149	11/1/2018	12:16:59	0.0
150	11/1/2018	12:17:59	0.0
151	11/1/2018	12:18:59	0.0
152	11/1/2018	12:19:59	0.0
153	11/1/2018	12:20:59	0.0
154	11/1/2018	12:21:59	0.0
155	11/1/2018	12:22:59	0.0
156	11/1/2018	12:23:59	0.0
157	11/1/2018	12:24:59	0.0
158	11/1/2018	12:25:59	0.0
159	11/1/2018	12:26:59	0.0
160	11/1/2018	12:27:59	0.0
161	11/1/2018	12:28:59	0.0
162	11/1/2018	12:29:59	0.0
163	11/1/2018	12:30:59	0.0
164	11/1/2018	12:31:59	0.0
165	11/1/2018	12:32:59	0.0
166	11/1/2018	12:33:59	0.0
167	11/1/2018	12:34:59	0.0
168	11/1/2018	12:35:59	0.0
169	11/1/2018	12:36:59	0.0
170	11/1/2018	12:37:59	0.0
171	11/1/2018	12:38:59	0.0
172	11/1/2018	12:39:59	0.0
173	11/1/2018	12:40:59	0.0
174	11/1/2018	12:41:59	0.0
175	11/1/2018	12:42:59	0.0
176	11/1/2018	12:43:59	0.0
177	11/1/2018	12:44:59	0.0
178	11/1/2018	12:45:59	0.0
179	11/1/2018	12:46:59	0.0
180	11/1/2018	12:47:59	0.0
181	11/1/2018	12:48:59	0.0
182	11/1/2018	12:49:59	0.0
183	11/1/2018	12:50:59	0.0

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184	11/1/2018	12:51:59	0.0
185	11/1/2018	12:52:59	0.0
186	11/1/2018	12:53:59	0.0
187	11/1/2018	12:54:59	0.0
188	11/1/2018	12:55:59	0.0
189	11/1/2018	12:56:59	0.0
190	11/1/2018	12:57:59	0.0
191	11/1/2018	12:58:59	0.0
192	11/1/2018	12:59:59	0.0
193	11/1/2018	13:00:59	0.0
194	11/1/2018	13:01:59	0.0
195	11/1/2018	13:02:59	0.0
196	11/1/2018	13:03:59	0.0
197	11/1/2018	13:04:59	0.0
198	11/1/2018	13:05:59	0.0
199	11/1/2018	13:06:59	0.0
200	11/1/2018	13:07:59	0.0
201	11/1/2018	13:08:59	0.0
202	11/1/2018	13:09:59	0.0
203	11/1/2018	13:10:59	0.0
204	11/1/2018	13:11:59	0.0
205	11/1/2018	13:12:59	0.0
206	11/1/2018	13:13:59	0.0
207	11/1/2018	13:14:59	0.0
208	11/1/2018	13:15:59	0.0
209	11/1/2018	13:16:59	0.0
210	11/1/2018	13:17:59	0.0
211	11/1/2018	13:18:59	0.0
212	11/1/2018	13:19:59	0.0
213	11/1/2018	13:20:59	0.0
214	11/1/2018	13:21:59	0.0
215	11/1/2018	13:22:59	0.0
216	11/1/2018	13:23:59	0.0
217	11/1/2018	13:24:59	0.0
218	11/1/2018	13:25:59	0.0
219	11/1/2018	13:26:59	0.0
220	11/1/2018	13:27:59	0.0
221	11/1/2018	13:28:59	0.0
222	11/1/2018	13:29:59	0.0
223	11/1/2018	13:30:59	0.0
224	11/1/2018	13:31:59	0.0
225	11/1/2018	13:32:59	0.0
226	11/1/2018	13:33:59	0.0
227	11/1/2018	13:34:59	0.0
228	11/1/2018	13:35:59	0.0
229	11/1/2018	13:36:59	0.0
230	11/1/2018	13:37:59	0.0
231	11/1/2018	13:38:59	0.0

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232	11/1/2018	13:39:59	0.0
233	11/1/2018	13:40:59	0.0
234	11/1/2018	13:41:59	0.0
235	11/1/2018	13:42:59	0.0
236	11/1/2018	13:43:59	0.0
237	11/1/2018	13:44:59	0.0
238	11/1/2018	13:45:59	0.0
239	11/1/2018	13:46:59	0.0
240	11/1/2018	13:47:59	0.0
241	11/1/2018	13:48:59	0.0
242	11/1/2018	13:49:59	0.0
243	11/1/2018	13:50:59	0.0
244	11/1/2018	13:51:59	0.0
245	11/1/2018	13:52:59	0.0
246	11/1/2018	13:53:59	0.0
247	11/1/2018	13:54:59	0.0
248	11/1/2018	13:55:59	0.0
249	11/1/2018	13:56:59	0.0
250	11/1/2018	13:57:59	0.0
251	11/1/2018	13:58:59	0.0
252	11/1/2018	13:59:59	0.0
253	11/1/2018	14:00:59	0.0
254	11/1/2018	14:01:59	0.0
255	11/1/2018	14:02:59	0.0
256	11/1/2018	14:03:59	0.0
257	11/1/2018	14:04:59	0.0
258	11/1/2018	14:05:59	0.0
259	11/1/2018	14:06:59	0.0
260	11/1/2018	14:07:59	0.0
261	11/1/2018	14:08:59	0.0
262	11/1/2018	14:09:59	0.0
263	11/1/2018	14:10:59	0.0
264	11/1/2018	14:11:59	0.0
265	11/1/2018	14:12:59	0.0
266	11/1/2018	14:13:59	0.0
267	11/1/2018	14:14:59	0.0
268	11/1/2018	14:15:59	0.0
269	11/1/2018	14:16:59	0.0
270	11/1/2018	14:17:59	0.0
271	11/1/2018	14:18:59	0.0
272	11/1/2018	14:19:59	0.0
273	11/1/2018	14:20:59	0.0
274	11/1/2018	14:21:59	0.0
275	11/1/2018	14:22:59	0.0
276	11/1/2018	14:23:59	0.0
277	11/1/2018	14:24:59	0.0
278	11/1/2018	14:25:59	0.0
279	11/1/2018	14:26:59	0.0

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280	11/1/2018	14:27:59	0.0
281	11/1/2018	14:28:59	0.0
282	11/1/2018	14:29:59	0.0
283	11/1/2018	14:30:59	0.0
284	11/1/2018	14:31:59	0.0
285	11/1/2018	14:32:59	0.0
286	11/1/2018	14:33:59	0.0
287	11/1/2018	14:34:59	0.0
288	11/1/2018	14:35:59	0.0
289	11/1/2018	14:36:59	0.0
290	11/1/2018	14:37:59	0.0
291	11/1/2018	14:38:59	0.0
292	11/1/2018	14:39:59	0.0
293	11/1/2018	14:40:59	0.0
294	11/1/2018	14:41:59	0.0
295	11/1/2018	14:42:59	0.0
296	11/1/2018	14:43:59	0.0
297	11/1/2018	14:44:59	0.0
298	11/1/2018	14:45:59	0.0
299	11/1/2018	14:46:59	0.0
300	11/1/2018	14:47:59	0.0
301	11/1/2018	14:48:59	0.0
302	11/1/2018	14:49:59	0.0
303	11/1/2018	14:50:59	0.0
304	11/1/2018	14:51:59	0.0
305	11/1/2018	14:52:59	0.0
306	11/1/2018	14:53:59	0.0
307	11/1/2018	14:54:59	0.0
308	11/1/2018	14:55:59	0.0
309	11/1/2018	14:56:59	0.0
310	11/1/2018	14:57:59	0.0
311	11/1/2018	14:58:59	0.0
312	11/1/2018	14:59:59	0.0
313	11/1/2018	15:00:59	0.0
314	11/1/2018	15:01:59	0.0

Peak 0.0
Min 0.0
Average 0.0

=====
18/11/13 12:51

Summary

Unit Name MiniRAE 3000(PGM-7320)
Unit SN 592-919490
Unit Firmware Ver V2.14

Running Mode Hygiene Mode
Datalog Mode Manual
Diagnostic Mode No
Stop Reason Power Down

Site ID RAE00000
User ID USER0000

Begin 11/13/2018 12:51:12
End 11/13/2018 16:40:25
Sample Period(s) 60
Number of Records 229

Sensor PID(ppm)
Sensor SN S023030231U6
Measure Type Avg
Span 100.0
Span 2 1000.0
Low Alarm 50.0
High Alarm 100.0
Over Alarm 15000.0
STEL Alarm 9100.0
TWA Alarm 50.0
Measurement Gas Isobutylene
Calibration Time 10/31/2018 15:19
Peak N/A
Min N/A
Average N/A

Datalog

Index	Date/Time	PID(ppm) (Avg)
001	11/13/2018 12:52:12	0.0
002	11/13/2018 12:53:12	0.0
003	11/13/2018 12:54:12	0.0
004	11/13/2018 12:55:12	0.0
005	11/13/2018 12:56:12	0.0
006	11/13/2018 12:57:12	0.0
007	11/13/2018 12:58:12	0.0
008	11/13/2018 12:59:12	0.0
009	11/13/2018 13:00:12	0.0
010	11/13/2018 13:01:12	0.0
011	11/13/2018 13:02:12	0.0
012	11/13/2018 13:03:12	0.0
013	11/13/2018 13:04:12	0.0
014	11/13/2018 13:05:12	0.0
015	11/13/2018 13:06:12	0.0

PRS_EXPORT_20181119.txt39390

016	11/13/2018	13:07:12	0.0
017	11/13/2018	13:08:12	0.0
018	11/13/2018	13:09:12	0.0
019	11/13/2018	13:10:12	0.0
020	11/13/2018	13:11:12	0.0
021	11/13/2018	13:12:12	0.0
022	11/13/2018	13:13:12	0.0
023	11/13/2018	13:14:12	0.0
024	11/13/2018	13:15:12	0.0
025	11/13/2018	13:16:12	0.0
026	11/13/2018	13:17:12	0.0
027	11/13/2018	13:18:12	0.0
028	11/13/2018	13:19:12	0.0
029	11/13/2018	13:20:12	0.0
030	11/13/2018	13:21:12	0.0
031	11/13/2018	13:22:12	0.0
032	11/13/2018	13:23:12	0.0
033	11/13/2018	13:24:12	0.0
034	11/13/2018	13:25:12	0.0
035	11/13/2018	13:26:12	0.0
036	11/13/2018	13:27:12	0.0
037	11/13/2018	13:28:12	0.0
038	11/13/2018	13:29:12	0.0
039	11/13/2018	13:30:12	0.0
040	11/13/2018	13:31:12	0.0
041	11/13/2018	13:32:12	0.0
042	11/13/2018	13:33:12	0.0
043	11/13/2018	13:34:12	0.0
044	11/13/2018	13:35:12	0.0
045	11/13/2018	13:36:12	0.0
046	11/13/2018	13:37:12	0.0
047	11/13/2018	13:38:12	0.0
048	11/13/2018	13:39:12	0.0
049	11/13/2018	13:40:12	0.0
050	11/13/2018	13:41:12	0.0
051	11/13/2018	13:42:12	0.0
052	11/13/2018	13:43:12	0.0
053	11/13/2018	13:44:12	0.0
054	11/13/2018	13:45:12	0.0
055	11/13/2018	13:46:12	0.2
056	11/13/2018	13:47:12	0.0
057	11/13/2018	13:48:12	0.0
058	11/13/2018	13:49:12	0.0
059	11/13/2018	13:50:12	0.0
060	11/13/2018	13:51:12	0.0
061	11/13/2018	13:52:12	0.0
062	11/13/2018	13:53:12	0.0
063	11/13/2018	13:54:12	0.0

PRS_EXPORT_20181119.txt39390

064	11/13/2018	13:55:12	0.0
065	11/13/2018	13:56:12	0.0
066	11/13/2018	13:57:12	0.0
067	11/13/2018	13:58:12	0.0
068	11/13/2018	13:59:12	0.0
069	11/13/2018	14:00:12	0.0
070	11/13/2018	14:01:12	0.0
071	11/13/2018	14:02:12	0.0
072	11/13/2018	14:03:12	0.0
073	11/13/2018	14:04:12	0.0
074	11/13/2018	14:05:12	0.0
075	11/13/2018	14:06:12	0.0
076	11/13/2018	14:07:12	0.0
077	11/13/2018	14:08:12	0.0
078	11/13/2018	14:09:12	0.0
079	11/13/2018	14:10:12	0.0
080	11/13/2018	14:11:12	0.0
081	11/13/2018	14:12:12	0.0
082	11/13/2018	14:13:12	0.0
083	11/13/2018	14:14:12	0.0
084	11/13/2018	14:15:12	0.0
085	11/13/2018	14:16:12	0.0
086	11/13/2018	14:17:12	0.0
087	11/13/2018	14:18:12	0.0
088	11/13/2018	14:19:12	0.0
089	11/13/2018	14:20:12	0.0
090	11/13/2018	14:21:12	0.0
091	11/13/2018	14:22:12	0.0
092	11/13/2018	14:23:12	0.0
093	11/13/2018	14:24:12	0.0
094	11/13/2018	14:25:12	0.0
095	11/13/2018	14:26:12	0.0
096	11/13/2018	14:27:12	0.0
097	11/13/2018	14:28:12	0.0
098	11/13/2018	14:29:12	0.0
099	11/13/2018	14:30:12	0.0
100	11/13/2018	14:31:12	0.0
101	11/13/2018	14:32:12	0.0
102	11/13/2018	14:33:12	0.0
103	11/13/2018	14:34:12	0.0
104	11/13/2018	14:35:12	0.0
105	11/13/2018	14:36:12	0.0
106	11/13/2018	14:37:12	0.0
107	11/13/2018	14:38:12	0.0
108	11/13/2018	14:39:12	0.0
109	11/13/2018	14:40:12	0.0
110	11/13/2018	14:41:12	0.0
111	11/13/2018	14:42:12	0.0

PRS_EXPORT_20181119.txt39390

112	11/13/2018	14:43:12	0.0
113	11/13/2018	14:44:12	0.0
114	11/13/2018	14:45:12	0.0
115	11/13/2018	14:46:12	0.0
116	11/13/2018	14:47:12	0.0
117	11/13/2018	14:48:12	0.0
118	11/13/2018	14:49:12	0.0
119	11/13/2018	14:50:12	0.0
120	11/13/2018	14:51:12	0.0
121	11/13/2018	14:52:12	0.0
122	11/13/2018	14:53:12	0.0
123	11/13/2018	14:54:12	0.0
124	11/13/2018	14:55:12	0.0
125	11/13/2018	14:56:12	0.0
126	11/13/2018	14:57:12	0.0
127	11/13/2018	14:58:12	0.0
128	11/13/2018	14:59:12	0.0
129	11/13/2018	15:00:12	0.0
130	11/13/2018	15:01:12	0.0
131	11/13/2018	15:02:12	0.0
132	11/13/2018	15:03:12	0.0
133	11/13/2018	15:04:12	0.0
134	11/13/2018	15:05:12	0.0
135	11/13/2018	15:06:12	0.0
136	11/13/2018	15:07:12	0.0
137	11/13/2018	15:08:12	0.0
138	11/13/2018	15:09:12	0.0
139	11/13/2018	15:10:12	0.0
140	11/13/2018	15:11:12	0.0
141	11/13/2018	15:12:12	0.0
142	11/13/2018	15:13:12	0.0
143	11/13/2018	15:14:12	0.0
144	11/13/2018	15:15:12	0.0
145	11/13/2018	15:16:12	0.0
146	11/13/2018	15:17:12	0.0
147	11/13/2018	15:18:12	0.0
148	11/13/2018	15:19:12	0.0
149	11/13/2018	15:20:12	0.0
150	11/13/2018	15:21:12	0.0
151	11/13/2018	15:22:12	0.0
152	11/13/2018	15:23:12	0.0
153	11/13/2018	15:24:12	0.0
154	11/13/2018	15:25:12	0.0
155	11/13/2018	15:26:12	0.0
156	11/13/2018	15:27:12	0.0
157	11/13/2018	15:28:12	0.0
158	11/13/2018	15:29:12	0.0
159	11/13/2018	15:30:12	0.0

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160	11/13/2018	15:31:12	0.0
161	11/13/2018	15:32:12	0.0
162	11/13/2018	15:33:12	0.0
163	11/13/2018	15:34:12	0.0
164	11/13/2018	15:35:12	0.0
165	11/13/2018	15:36:12	0.0
166	11/13/2018	15:37:12	0.0
167	11/13/2018	15:38:12	0.0
168	11/13/2018	15:39:12	0.0
169	11/13/2018	15:40:12	0.0
170	11/13/2018	15:41:12	0.0
171	11/13/2018	15:42:12	0.0
172	11/13/2018	15:43:12	0.0
173	11/13/2018	15:44:12	0.0
174	11/13/2018	15:45:12	0.0
175	11/13/2018	15:46:12	0.0
176	11/13/2018	15:47:12	0.0
177	11/13/2018	15:48:12	0.0
178	11/13/2018	15:49:12	0.0
179	11/13/2018	15:50:12	0.0
180	11/13/2018	15:51:12	0.0
181	11/13/2018	15:52:12	0.0
182	11/13/2018	15:53:12	0.0
183	11/13/2018	15:54:12	0.0
184	11/13/2018	15:55:12	0.0
185	11/13/2018	15:56:12	0.0
186	11/13/2018	15:57:12	0.0
187	11/13/2018	15:58:12	0.0
188	11/13/2018	15:59:12	0.0
189	11/13/2018	16:00:12	0.0
190	11/13/2018	16:01:12	0.0
191	11/13/2018	16:02:12	0.0
192	11/13/2018	16:03:12	0.0
193	11/13/2018	16:04:12	0.0
194	11/13/2018	16:05:12	0.0
195	11/13/2018	16:06:12	0.0
196	11/13/2018	16:07:12	0.0
197	11/13/2018	16:08:12	0.0
198	11/13/2018	16:09:12	0.0
199	11/13/2018	16:10:12	0.0
200	11/13/2018	16:11:12	0.0
201	11/13/2018	16:12:12	0.0
202	11/13/2018	16:13:12	0.0
203	11/13/2018	16:14:12	0.0
204	11/13/2018	16:15:12	0.0
205	11/13/2018	16:16:12	0.0
206	11/13/2018	16:17:12	0.0
207	11/13/2018	16:18:12	0.0

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208	11/13/2018	16:19:12	0.0
209	11/13/2018	16:20:12	0.0
210	11/13/2018	16:21:12	0.0
211	11/13/2018	16:22:12	0.0
212	11/13/2018	16:23:12	0.0
213	11/13/2018	16:24:12	0.0
214	11/13/2018	16:25:12	0.0
215	11/13/2018	16:26:12	0.0
216	11/13/2018	16:27:12	0.0
217	11/13/2018	16:28:12	0.0
218	11/13/2018	16:29:12	0.0
219	11/13/2018	16:30:12	0.0
220	11/13/2018	16:31:12	0.0
221	11/13/2018	16:32:12	0.0
222	11/13/2018	16:33:12	0.0
223	11/13/2018	16:34:12	0.0
224	11/13/2018	16:35:12	0.0
225	11/13/2018	16:36:12	0.0
226	11/13/2018	16:37:12	0.0
227	11/13/2018	16:38:12	0.0
228	11/13/2018	16:39:12	0.0
229	11/13/2018	16:40:12	0.0

Peak 0.2
Min 0.0
Average 0.0

=====
18/11/14 07:59

Summary

Unit Name MiniRAE 3000(PGM-7320)
Unit SN 592-919490
Unit Firmware Ver V2.14

Running Mode Hygiene Mode
Datalog Mode Manual
Diagnostic Mode No
Stop Reason Power Down

Site ID RAE00000
User ID USER0000

Begin 11/14/2018 07:59:03
End 11/14/2018 08:02:25
Sample Period(s) 60
Number of Records 3

Sensor PID(ppm)
Sensor SN S023030231U6
Measure Type Avg
Span 100.0
Span 2 1000.0
Low Alarm 50.0
High Alarm 100.0
Over Alarm 15000.0
STEL Alarm 9100.0
TWA Alarm 50.0
Measurement Gas Isobutylene
Calibration Time 10/31/2018 15:19
Peak N/A
Min N/A
Average N/A

Datalog

Index	Date/Time	PID(ppm) (Avg)
001	11/14/2018 08:00:03	0.1
002	11/14/2018 08:01:03	0.0
003	11/14/2018 08:02:03	0.0
Peak		0.1
Min		0.0
Average		0.0

=====
18/11/14 10:18

Summary

Unit Name MiniRAE 3000(PGM-7320)
Unit SN 592-919490
Unit Firmware Ver V2.14

Running Mode Hygiene Mode
Datalog Mode Manual
Diagnostic Mode No
Stop Reason Power Down

Site ID RAE00000
User ID USER0000

Begin 11/14/2018 10:18:23
End 11/14/2018 16:01:26
Sample Period(s) 60
Number of Records 343

Sensor PID(ppm)
Sensor SN S023030231U6
Measure Type Avg
Span 100.0
Span 2 1000.0
Low Alarm 50.0
High Alarm 100.0
Over Alarm 15000.0
STEL Alarm 9100.0
TWA Alarm 50.0
Measurement Gas Isobutylene
Calibration Time 10/31/2018 15:19
Peak N/A
Min N/A
Average N/A

Datalog

Index	Date/Time	PID(ppm) (Avg)
001	11/14/2018 10:19:23	0.0
002	11/14/2018 10:20:23	0.0
003	11/14/2018 10:21:23	0.0
004	11/14/2018 10:22:23	0.0
005	11/14/2018 10:23:23	0.0
006	11/14/2018 10:24:23	0.0
007	11/14/2018 10:25:23	0.0
008	11/14/2018 10:26:23	0.0
009	11/14/2018 10:27:23	0.0
010	11/14/2018 10:28:23	0.0
011	11/14/2018 10:29:23	0.0
012	11/14/2018 10:30:23	0.0
013	11/14/2018 10:31:23	0.0
014	11/14/2018 10:32:23	0.0
015	11/14/2018 10:33:23	0.0
016	11/14/2018 10:34:23	0.0
017	11/14/2018 10:35:23	0.0
018	11/14/2018 10:36:23	0.0
019	11/14/2018 10:37:23	0.0
020	11/14/2018 10:38:23	0.0
021	11/14/2018 10:39:23	0.0
022	11/14/2018 10:40:23	0.0
023	11/14/2018 10:41:23	0.0
024	11/14/2018 10:42:23	0.0
025	11/14/2018 10:43:23	0.0
026	11/14/2018 10:44:23	0.0
027	11/14/2018 10:45:23	0.0

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028	11/14/2018	10:46:23	0.0
029	11/14/2018	10:47:23	0.0
030	11/14/2018	10:48:23	0.0
031	11/14/2018	10:49:23	0.0
032	11/14/2018	10:50:23	0.0
033	11/14/2018	10:51:23	0.0
034	11/14/2018	10:52:23	0.0
035	11/14/2018	10:53:23	0.0
036	11/14/2018	10:54:23	0.0
037	11/14/2018	10:55:23	0.0
038	11/14/2018	10:56:23	0.0
039	11/14/2018	10:57:23	0.0
040	11/14/2018	10:58:23	0.0
041	11/14/2018	10:59:23	0.0
042	11/14/2018	11:00:23	0.0
043	11/14/2018	11:01:23	0.0
044	11/14/2018	11:02:23	0.0
045	11/14/2018	11:03:23	0.0
046	11/14/2018	11:04:23	0.0
047	11/14/2018	11:05:23	0.0
048	11/14/2018	11:06:23	0.0
049	11/14/2018	11:07:23	0.0
050	11/14/2018	11:08:23	0.0
051	11/14/2018	11:09:23	0.0
052	11/14/2018	11:10:23	0.0
053	11/14/2018	11:11:23	0.0
054	11/14/2018	11:12:23	0.0
055	11/14/2018	11:13:23	0.0
056	11/14/2018	11:14:23	0.0
057	11/14/2018	11:15:23	0.0
058	11/14/2018	11:16:23	0.0
059	11/14/2018	11:17:23	0.0
060	11/14/2018	11:18:23	0.0
061	11/14/2018	11:19:23	0.0
062	11/14/2018	11:20:23	0.0
063	11/14/2018	11:21:23	0.0
064	11/14/2018	11:22:23	0.0
065	11/14/2018	11:23:23	0.0
066	11/14/2018	11:24:23	0.0
067	11/14/2018	11:25:23	0.0
068	11/14/2018	11:26:23	0.0
069	11/14/2018	11:27:23	0.0
070	11/14/2018	11:28:23	0.0
071	11/14/2018	11:29:23	0.0
072	11/14/2018	11:30:23	0.0
073	11/14/2018	11:31:23	0.0
074	11/14/2018	11:32:23	0.0
075	11/14/2018	11:33:23	0.0

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076	11/14/2018	11:34:23	0.0
077	11/14/2018	11:35:23	0.0
078	11/14/2018	11:36:23	0.0
079	11/14/2018	11:37:23	0.0
080	11/14/2018	11:38:23	0.0
081	11/14/2018	11:39:23	0.0
082	11/14/2018	11:40:23	0.0
083	11/14/2018	11:41:23	0.0
084	11/14/2018	11:42:23	0.0
085	11/14/2018	11:43:23	0.0
086	11/14/2018	11:44:23	0.0
087	11/14/2018	11:45:23	0.0
088	11/14/2018	11:46:23	0.0
089	11/14/2018	11:47:23	0.0
090	11/14/2018	11:48:23	0.0
091	11/14/2018	11:49:23	0.0
092	11/14/2018	11:50:23	0.0
093	11/14/2018	11:51:23	0.0
094	11/14/2018	11:52:23	0.0
095	11/14/2018	11:53:23	0.0
096	11/14/2018	11:54:23	0.0
097	11/14/2018	11:55:23	0.0
098	11/14/2018	11:56:23	0.0
099	11/14/2018	11:57:23	0.0
100	11/14/2018	11:58:23	0.0
101	11/14/2018	11:59:23	0.0
102	11/14/2018	12:00:23	0.0
103	11/14/2018	12:01:23	0.0
104	11/14/2018	12:02:23	0.0
105	11/14/2018	12:03:23	0.0
106	11/14/2018	12:04:23	0.0
107	11/14/2018	12:05:23	0.0
108	11/14/2018	12:06:23	0.0
109	11/14/2018	12:07:23	0.0
110	11/14/2018	12:08:23	0.0
111	11/14/2018	12:09:23	0.0
112	11/14/2018	12:10:23	0.0
113	11/14/2018	12:11:23	0.0
114	11/14/2018	12:12:23	0.0
115	11/14/2018	12:13:23	0.0
116	11/14/2018	12:14:23	0.0
117	11/14/2018	12:15:23	0.0
118	11/14/2018	12:16:23	0.0
119	11/14/2018	12:17:23	0.0
120	11/14/2018	12:18:23	0.0
121	11/14/2018	12:19:23	0.0
122	11/14/2018	12:20:23	0.0
123	11/14/2018	12:21:23	0.0

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124	11/14/2018	12:22:23	0.0
125	11/14/2018	12:23:23	0.0
126	11/14/2018	12:24:23	0.0
127	11/14/2018	12:25:23	0.0
128	11/14/2018	12:26:23	0.0
129	11/14/2018	12:27:23	0.0
130	11/14/2018	12:28:23	0.0
131	11/14/2018	12:29:23	0.0
132	11/14/2018	12:30:23	0.0
133	11/14/2018	12:31:23	0.0
134	11/14/2018	12:32:23	0.0
135	11/14/2018	12:33:23	0.0
136	11/14/2018	12:34:23	0.0
137	11/14/2018	12:35:23	0.0
138	11/14/2018	12:36:23	0.0
139	11/14/2018	12:37:23	0.0
140	11/14/2018	12:38:23	0.0
141	11/14/2018	12:39:23	0.0
142	11/14/2018	12:40:23	0.0
143	11/14/2018	12:41:23	0.0
144	11/14/2018	12:42:23	0.0
145	11/14/2018	12:43:23	0.0
146	11/14/2018	12:44:23	0.0
147	11/14/2018	12:45:23	0.0
148	11/14/2018	12:46:23	0.0
149	11/14/2018	12:47:23	0.0
150	11/14/2018	12:48:23	0.0
151	11/14/2018	12:49:23	0.0
152	11/14/2018	12:50:23	0.0
153	11/14/2018	12:51:23	0.0
154	11/14/2018	12:52:23	0.0
155	11/14/2018	12:53:23	0.0
156	11/14/2018	12:54:23	0.0
157	11/14/2018	12:55:23	0.0
158	11/14/2018	12:56:23	0.0
159	11/14/2018	12:57:23	0.0
160	11/14/2018	12:58:23	0.0
161	11/14/2018	12:59:23	0.0
162	11/14/2018	13:00:23	0.0
163	11/14/2018	13:01:23	0.0
164	11/14/2018	13:02:23	0.0
165	11/14/2018	13:03:23	0.0
166	11/14/2018	13:04:23	0.0
167	11/14/2018	13:05:23	0.0
168	11/14/2018	13:06:23	0.0
169	11/14/2018	13:07:23	0.0
170	11/14/2018	13:08:23	0.0
171	11/14/2018	13:09:23	0.0

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172	11/14/2018	13:10:23	0.0
173	11/14/2018	13:11:23	0.0
174	11/14/2018	13:12:23	0.0
175	11/14/2018	13:13:23	0.0
176	11/14/2018	13:14:23	0.0
177	11/14/2018	13:15:23	0.0
178	11/14/2018	13:16:23	0.0
179	11/14/2018	13:17:23	0.0
180	11/14/2018	13:18:23	0.0
181	11/14/2018	13:19:23	0.0
182	11/14/2018	13:20:23	0.0
183	11/14/2018	13:21:23	0.0
184	11/14/2018	13:22:23	0.0
185	11/14/2018	13:23:23	0.0
186	11/14/2018	13:24:23	0.0
187	11/14/2018	13:25:23	0.0
188	11/14/2018	13:26:23	0.0
189	11/14/2018	13:27:23	0.0
190	11/14/2018	13:28:23	0.0
191	11/14/2018	13:29:23	0.0
192	11/14/2018	13:30:23	0.0
193	11/14/2018	13:31:23	0.0
194	11/14/2018	13:32:23	0.0
195	11/14/2018	13:33:23	0.0
196	11/14/2018	13:34:23	0.0
197	11/14/2018	13:35:23	0.0
198	11/14/2018	13:36:23	0.0
199	11/14/2018	13:37:23	0.0
200	11/14/2018	13:38:23	0.0
201	11/14/2018	13:39:23	0.0
202	11/14/2018	13:40:23	0.0
203	11/14/2018	13:41:23	0.0
204	11/14/2018	13:42:23	0.0
205	11/14/2018	13:43:23	0.0
206	11/14/2018	13:44:23	0.0
207	11/14/2018	13:45:23	0.0
208	11/14/2018	13:46:23	0.0
209	11/14/2018	13:47:23	0.0
210	11/14/2018	13:48:23	0.0
211	11/14/2018	13:49:23	0.0
212	11/14/2018	13:50:23	0.0
213	11/14/2018	13:51:23	0.0
214	11/14/2018	13:52:23	0.0
215	11/14/2018	13:53:23	0.0
216	11/14/2018	13:54:23	0.0
217	11/14/2018	13:55:23	0.0
218	11/14/2018	13:56:23	0.0
219	11/14/2018	13:57:23	0.0

PRS_EXPORT_20181119.txt39390

220	11/14/2018	13:58:23	0.0
221	11/14/2018	13:59:23	0.0
222	11/14/2018	14:00:23	0.0
223	11/14/2018	14:01:23	0.0
224	11/14/2018	14:02:23	0.0
225	11/14/2018	14:03:23	0.0
226	11/14/2018	14:04:23	0.0
227	11/14/2018	14:05:23	0.0
228	11/14/2018	14:06:23	0.0
229	11/14/2018	14:07:23	0.0
230	11/14/2018	14:08:23	0.0
231	11/14/2018	14:09:23	0.0
232	11/14/2018	14:10:23	0.0
233	11/14/2018	14:11:23	0.0
234	11/14/2018	14:12:23	0.0
235	11/14/2018	14:13:23	0.0
236	11/14/2018	14:14:23	0.0
237	11/14/2018	14:15:23	0.0
238	11/14/2018	14:16:23	0.0
239	11/14/2018	14:17:23	0.0
240	11/14/2018	14:18:23	0.0
241	11/14/2018	14:19:23	0.0
242	11/14/2018	14:20:23	0.0
243	11/14/2018	14:21:23	0.0
244	11/14/2018	14:22:23	0.0
245	11/14/2018	14:23:23	0.0
246	11/14/2018	14:24:23	0.0
247	11/14/2018	14:25:23	0.0
248	11/14/2018	14:26:23	0.0
249	11/14/2018	14:27:23	0.0
250	11/14/2018	14:28:23	0.0
251	11/14/2018	14:29:23	0.0
252	11/14/2018	14:30:23	0.0
253	11/14/2018	14:31:23	0.0
254	11/14/2018	14:32:23	0.0
255	11/14/2018	14:33:23	0.0
256	11/14/2018	14:34:23	0.0
257	11/14/2018	14:35:23	0.0
258	11/14/2018	14:36:23	0.0
259	11/14/2018	14:37:23	0.0
260	11/14/2018	14:38:23	0.0
261	11/14/2018	14:39:23	0.0
262	11/14/2018	14:40:23	0.0
263	11/14/2018	14:41:23	0.0
264	11/14/2018	14:42:23	0.0
265	11/14/2018	14:43:23	0.0
266	11/14/2018	14:44:23	0.0
267	11/14/2018	14:45:23	0.0

PRS_EXPORT_20181119.txt39390

268	11/14/2018	14:46:23	0.0
269	11/14/2018	14:47:23	0.0
270	11/14/2018	14:48:23	0.0
271	11/14/2018	14:49:23	0.0
272	11/14/2018	14:50:23	0.0
273	11/14/2018	14:51:23	0.0
274	11/14/2018	14:52:23	0.0
275	11/14/2018	14:53:23	0.0
276	11/14/2018	14:54:23	0.0
277	11/14/2018	14:55:23	0.0
278	11/14/2018	14:56:23	0.0
279	11/14/2018	14:57:23	0.0
280	11/14/2018	14:58:23	0.0
281	11/14/2018	14:59:23	0.0
282	11/14/2018	15:00:23	0.0
283	11/14/2018	15:01:23	0.0
284	11/14/2018	15:02:23	0.0
285	11/14/2018	15:03:23	0.0
286	11/14/2018	15:04:23	0.0
287	11/14/2018	15:05:23	0.0
288	11/14/2018	15:06:23	0.0
289	11/14/2018	15:07:23	0.0
290	11/14/2018	15:08:23	0.0
291	11/14/2018	15:09:23	0.0
292	11/14/2018	15:10:23	0.0
293	11/14/2018	15:11:23	0.0
294	11/14/2018	15:12:23	0.0
295	11/14/2018	15:13:23	0.0
296	11/14/2018	15:14:23	0.0
297	11/14/2018	15:15:23	0.0
298	11/14/2018	15:16:23	0.0
299	11/14/2018	15:17:23	0.0
300	11/14/2018	15:18:23	0.0
301	11/14/2018	15:19:23	0.0
302	11/14/2018	15:20:23	0.0
303	11/14/2018	15:21:23	0.0
304	11/14/2018	15:22:23	0.0
305	11/14/2018	15:23:23	0.0
306	11/14/2018	15:24:23	0.0
307	11/14/2018	15:25:23	0.0
308	11/14/2018	15:26:23	0.0
309	11/14/2018	15:27:23	0.0
310	11/14/2018	15:28:23	0.0
311	11/14/2018	15:29:23	0.0
312	11/14/2018	15:30:23	0.0
313	11/14/2018	15:31:23	0.0
314	11/14/2018	15:32:23	0.0
315	11/14/2018	15:33:23	0.0

PRS_EXPORT_20181119.txt39390

316	11/14/2018	15:34:23	0.0
317	11/14/2018	15:35:23	0.0
318	11/14/2018	15:36:23	0.0
319	11/14/2018	15:37:23	0.0
320	11/14/2018	15:38:23	0.0
321	11/14/2018	15:39:23	0.0
322	11/14/2018	15:40:23	0.0
323	11/14/2018	15:41:23	0.0
324	11/14/2018	15:42:23	0.0
325	11/14/2018	15:43:23	0.0
326	11/14/2018	15:44:23	0.0
327	11/14/2018	15:45:23	0.0
328	11/14/2018	15:46:23	0.0
329	11/14/2018	15:47:23	0.0
330	11/14/2018	15:48:23	0.0
331	11/14/2018	15:49:23	0.0
332	11/14/2018	15:50:23	0.0
333	11/14/2018	15:51:23	0.0
334	11/14/2018	15:52:23	0.0
335	11/14/2018	15:53:23	0.0
336	11/14/2018	15:54:23	0.0
337	11/14/2018	15:55:23	0.0
338	11/14/2018	15:56:23	0.0
339	11/14/2018	15:57:23	0.0
340	11/14/2018	15:58:23	0.0
341	11/14/2018	15:59:23	0.0
342	11/14/2018	16:00:23	0.0
343	11/14/2018	16:01:23	0.0

Peak 0.0
Min 0.0
Average 0.0

=====
18/11/15 11:13

Summary

Unit Name MiniRAE 3000(PGM-7320)
Unit SN 592-919490
Unit Firmware Ver V2.14

Running Mode Hygiene Mode
Datalog Mode Manual
Diagnostic Mode No
Stop Reason Power Down

Site ID RAE00000
User ID USER0000

```
-----
Begin 11/15/2018 11:13:23
End 11/15/2018 13:43:19
Sample Period(s) 60
Number of Records 149
-----
```

```
Sensor PID(ppm)
Sensor SN S023030231U6
Measure Type Avg
Span 100.0
Span 2 1000.0
Low Alarm 50.0
High Alarm 100.0
Over Alarm 15000.0
STEL Alarm 9100.0
TWA Alarm 50.0
Measurement Gas Isobutylene
Calibration Time 10/31/2018 15:19
Peak N/A
Min N/A
Average N/A
```

Datalog

Index	Date/Time	PID(ppm) (Avg)
001	11/15/2018 11:14:23	0.0
002	11/15/2018 11:15:23	0.0
003	11/15/2018 11:16:23	0.0
004	11/15/2018 11:17:23	0.0
005	11/15/2018 11:18:23	0.0
006	11/15/2018 11:19:23	0.0
007	11/15/2018 11:20:23	0.0
008	11/15/2018 11:21:23	0.0
009	11/15/2018 11:22:23	0.0
010	11/15/2018 11:23:23	0.0
011	11/15/2018 11:24:23	0.0
012	11/15/2018 11:25:23	0.0
013	11/15/2018 11:26:23	0.0
014	11/15/2018 11:27:23	0.0
015	11/15/2018 11:28:23	0.0
016	11/15/2018 11:29:23	0.0
017	11/15/2018 11:30:23	0.0
018	11/15/2018 11:31:23	0.0
019	11/15/2018 11:32:23	0.0
020	11/15/2018 11:33:23	0.0
021	11/15/2018 11:34:23	0.0
022	11/15/2018 11:35:23	0.0

PRS_EXPORT_20181119.txt39390

023	11/15/2018	11:36:23	0.0
024	11/15/2018	11:37:23	0.0
025	11/15/2018	11:38:23	0.0
026	11/15/2018	11:39:23	0.0
027	11/15/2018	11:40:23	0.0
028	11/15/2018	11:41:23	0.0
029	11/15/2018	11:42:23	0.0
030	11/15/2018	11:43:23	0.0
031	11/15/2018	11:44:23	0.0
032	11/15/2018	11:45:23	0.0
033	11/15/2018	11:46:23	0.0
034	11/15/2018	11:47:23	0.0
035	11/15/2018	11:48:23	0.0
036	11/15/2018	11:49:23	0.0
037	11/15/2018	11:50:23	0.0
038	11/15/2018	11:51:23	0.0
039	11/15/2018	11:52:23	0.0
040	11/15/2018	11:53:23	0.0
041	11/15/2018	11:54:23	0.0
042	11/15/2018	11:55:23	0.0
043	11/15/2018	11:56:23	0.0
044	11/15/2018	11:57:23	0.0
045	11/15/2018	11:58:23	0.0
046	11/15/2018	11:59:23	0.0
047	11/15/2018	12:00:23	0.0
048	11/15/2018	12:01:23	0.0
049	11/15/2018	12:02:23	0.0
050	11/15/2018	12:03:23	0.0
051	11/15/2018	12:04:23	0.0
052	11/15/2018	12:05:23	0.0
053	11/15/2018	12:06:23	0.0
054	11/15/2018	12:07:23	0.0
055	11/15/2018	12:08:23	0.0
056	11/15/2018	12:09:23	0.0
057	11/15/2018	12:10:23	0.0
058	11/15/2018	12:11:23	0.0
059	11/15/2018	12:12:23	0.0
060	11/15/2018	12:13:23	0.0
061	11/15/2018	12:14:23	0.0
062	11/15/2018	12:15:23	0.0
063	11/15/2018	12:16:23	0.0
064	11/15/2018	12:17:23	0.0
065	11/15/2018	12:18:23	0.0
066	11/15/2018	12:19:23	0.0
067	11/15/2018	12:20:23	0.0
068	11/15/2018	12:21:23	0.0
069	11/15/2018	12:22:23	0.0
070	11/15/2018	12:23:23	0.0

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071	11/15/2018	12:24:23	0.0
072	11/15/2018	12:25:23	0.0
073	11/15/2018	12:26:23	0.0
074	11/15/2018	12:27:23	0.0
075	11/15/2018	12:28:23	0.0
076	11/15/2018	12:29:23	0.0
077	11/15/2018	12:30:23	0.0
078	11/15/2018	12:31:23	0.0
079	11/15/2018	12:32:23	0.0
080	11/15/2018	12:33:23	0.0
081	11/15/2018	12:34:23	0.0
082	11/15/2018	12:35:23	0.0
083	11/15/2018	12:36:23	0.0
084	11/15/2018	12:37:23	0.0
085	11/15/2018	12:38:23	0.0
086	11/15/2018	12:39:23	0.0
087	11/15/2018	12:40:23	0.0
088	11/15/2018	12:41:23	0.0
089	11/15/2018	12:42:23	0.0
090	11/15/2018	12:43:23	0.0
091	11/15/2018	12:44:23	0.0
092	11/15/2018	12:45:23	0.0
093	11/15/2018	12:46:23	0.0
094	11/15/2018	12:47:23	0.0
095	11/15/2018	12:48:23	0.0
096	11/15/2018	12:49:23	0.0
097	11/15/2018	12:50:23	0.0
098	11/15/2018	12:51:23	0.0
099	11/15/2018	12:52:23	0.0
100	11/15/2018	12:53:23	0.0
101	11/15/2018	12:54:23	0.0
102	11/15/2018	12:55:23	0.0
103	11/15/2018	12:56:23	0.0
104	11/15/2018	12:57:23	0.0
105	11/15/2018	12:58:23	0.0
106	11/15/2018	12:59:23	0.0
107	11/15/2018	13:00:23	0.0
108	11/15/2018	13:01:23	0.0
109	11/15/2018	13:02:23	0.0
110	11/15/2018	13:03:23	0.0
111	11/15/2018	13:04:23	0.0
112	11/15/2018	13:05:23	0.0
113	11/15/2018	13:06:23	0.0
114	11/15/2018	13:07:23	0.0
115	11/15/2018	13:08:23	0.0
116	11/15/2018	13:09:23	0.0
117	11/15/2018	13:10:23	0.0
118	11/15/2018	13:11:23	0.0

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119	11/15/2018	13:12:23	0.0
120	11/15/2018	13:13:23	0.0
121	11/15/2018	13:14:23	0.0
122	11/15/2018	13:15:23	0.0
123	11/15/2018	13:16:23	0.0
124	11/15/2018	13:17:23	0.0
125	11/15/2018	13:18:23	0.0
126	11/15/2018	13:19:23	0.0
127	11/15/2018	13:20:23	0.0
128	11/15/2018	13:21:23	0.0
129	11/15/2018	13:22:23	0.0
130	11/15/2018	13:23:23	0.0
131	11/15/2018	13:24:23	0.0
132	11/15/2018	13:25:23	0.0
133	11/15/2018	13:26:23	0.0
134	11/15/2018	13:27:23	0.0
135	11/15/2018	13:28:23	0.0
136	11/15/2018	13:29:23	0.0
137	11/15/2018	13:30:23	0.0
138	11/15/2018	13:31:23	0.0
139	11/15/2018	13:32:23	0.0
140	11/15/2018	13:33:23	0.0
141	11/15/2018	13:34:23	0.0
142	11/15/2018	13:35:23	0.0
143	11/15/2018	13:36:23	0.0
144	11/15/2018	13:37:23	0.0
145	11/15/2018	13:38:23	0.0
146	11/15/2018	13:39:23	0.0
147	11/15/2018	13:40:23	0.0
148	11/15/2018	13:41:23	0.0
149	11/15/2018	13:42:23	0.0
Peak		0.0	
Min		0.0	
Average		0.0	

18/11/01 09:30

Summary

Unit Name MiniRAE 3000(PGM-7320)
Unit SN 592-904772
Unit Firmware Ver V2.16

Running Mode Hygiene Mode
Datalog Mode Manual
Diagnostic Mode No
Stop Reason Stop by User

Site ID 00000001
User ID 00000001

Begin 11/1/2018 09:30:55
End 11/1/2018 15:09:03
Sample Period(s) 60
Number of Records 338

Sensor PID(ppm)
Sensor SN S023030048V4
Measure Type Min; Avg; Max; Real
Span 100.0
Span 2 1000.0
Low Alarm 50.0
High Alarm 100.0
Over Alarm 15000.0
STEL Alarm 25.0
TWA Alarm 50.0
Measurement Gas Isobutylene
Calibration Time 10/31/2018 15:36
Peak 0.2
Min 0.0
Average 0.1

Datalog

Index	Date/Time	PID(ppm) (Min)	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)	PID(ppm)
001	11/1/2018 09:31:55	0.0	0.0	0.0	0.1	0.0
002	11/1/2018 09:32:55	0.0	0.0	0.0	0.0	0.0
003	11/1/2018 09:33:55	0.0	0.0	0.0	0.0	0.0
004	11/1/2018 09:34:55	0.0	0.0	0.0	0.0	0.0
005	11/1/2018 09:35:55	0.0	0.0	0.0	0.0	0.0
006	11/1/2018 09:36:55	0.0	0.0	0.0	0.0	0.0

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007	11/1/2018	09:37:55	0.0	0.0	0.0	0.0
008	11/1/2018	09:38:55	0.0	0.0	0.0	0.0
009	11/1/2018	09:39:55	0.0	0.0	0.0	0.0
010	11/1/2018	09:40:55	0.0	0.0	0.0	0.0
011	11/1/2018	09:41:55	0.0	0.0	0.0	0.0
012	11/1/2018	09:42:55	0.0	0.0	0.0	0.0
013	11/1/2018	09:43:55	0.0	0.0	0.0	0.0
014	11/1/2018	09:44:55	0.0	0.0	0.0	0.0
015	11/1/2018	09:45:55	0.0	0.0	0.0	0.0
016	11/1/2018	09:46:55	0.0	0.0	0.0	0.0
017	11/1/2018	09:47:55	0.0	0.0	0.0	0.0
018	11/1/2018	09:48:55	0.0	0.0	0.0	0.0
019	11/1/2018	09:49:55	0.0	0.0	0.0	0.0
020	11/1/2018	09:50:55	0.0	0.0	0.0	0.0
021	11/1/2018	09:51:55	0.0	0.0	0.0	0.0
022	11/1/2018	09:52:55	0.0	0.0	0.0	0.0
023	11/1/2018	09:53:55	0.0	0.0	0.0	0.0
024	11/1/2018	09:54:55	0.0	0.0	0.0	0.0
025	11/1/2018	09:55:55	0.0	0.0	0.0	0.0
026	11/1/2018	09:56:55	0.0	0.0	0.0	0.0
027	11/1/2018	09:57:55	0.0	0.0	0.0	0.0
028	11/1/2018	09:58:55	0.0	0.0	0.0	0.0
029	11/1/2018	09:59:55	0.0	0.0	0.0	0.0
030	11/1/2018	10:00:55	0.0	0.0	0.0	0.0
031	11/1/2018	10:01:55	0.0	0.0	0.0	0.0
032	11/1/2018	10:02:55	0.0	0.0	0.0	0.0
033	11/1/2018	10:03:55	0.0	0.0	0.0	0.0
034	11/1/2018	10:04:55	0.0	0.0	0.0	0.0
035	11/1/2018	10:05:55	0.0	0.0	0.0	0.0
036	11/1/2018	10:06:55	0.0	0.0	0.0	0.0
037	11/1/2018	10:07:55	0.0	0.0	0.0	0.0
038	11/1/2018	10:08:55	0.0	0.0	0.0	0.0
039	11/1/2018	10:09:55	0.0	0.0	0.0	0.0
040	11/1/2018	10:10:55	0.0	0.0	0.0	0.0
041	11/1/2018	10:11:55	0.0	0.0	0.0	0.0
042	11/1/2018	10:12:55	0.0	0.0	0.0	0.0
043	11/1/2018	10:13:55	0.0	0.0	0.0	0.0
044	11/1/2018	10:14:55	0.0	0.0	0.0	0.0
045	11/1/2018	10:15:55	0.0	0.0	0.0	0.0
046	11/1/2018	10:16:55	0.0	0.0	0.0	0.0
047	11/1/2018	10:17:55	0.0	0.0	0.0	0.0
048	11/1/2018	10:18:55	0.0	0.0	0.0	0.0
049	11/1/2018	10:19:55	0.0	0.0	0.0	0.0
050	11/1/2018	10:20:55	0.0	0.0	0.0	0.0
051	11/1/2018	10:21:55	0.0	0.0	0.0	0.0
052	11/1/2018	10:22:55	0.0	0.0	0.0	0.0
053	11/1/2018	10:23:55	0.0	0.0	0.0	0.0
054	11/1/2018	10:24:55	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txtR12238

055	11/1/2018	10:25:55	0.0	0.0	0.0	0.0
056	11/1/2018	10:26:55	0.0	0.0	0.0	0.0
057	11/1/2018	10:27:55	0.0	0.0	0.0	0.0
058	11/1/2018	10:28:55	0.0	0.0	0.0	0.0
059	11/1/2018	10:29:55	0.0	0.0	0.0	0.0
060	11/1/2018	10:30:55	0.0	0.0	0.0	0.0
061	11/1/2018	10:31:55	0.0	0.0	0.0	0.0
062	11/1/2018	10:32:55	0.0	0.0	0.0	0.0
063	11/1/2018	10:33:55	0.0	0.0	0.0	0.0
064	11/1/2018	10:34:55	0.0	0.0	0.0	0.0
065	11/1/2018	10:35:55	0.0	0.0	0.0	0.0
066	11/1/2018	10:36:55	0.0	0.0	0.0	0.0
067	11/1/2018	10:37:55	0.0	0.0	0.0	0.0
068	11/1/2018	10:38:55	0.0	0.0	0.0	0.0
069	11/1/2018	10:39:55	0.0	0.0	0.0	0.0
070	11/1/2018	10:40:55	0.0	0.0	0.0	0.0
071	11/1/2018	10:41:55	0.0	0.0	0.0	0.0
072	11/1/2018	10:42:55	0.0	0.0	0.0	0.0
073	11/1/2018	10:43:55	0.0	0.0	0.0	0.0
074	11/1/2018	10:44:55	0.0	0.0	0.0	0.0
075	11/1/2018	10:45:55	0.0	0.0	0.0	0.0
076	11/1/2018	10:46:55	0.0	0.0	0.0	0.0
077	11/1/2018	10:47:55	0.0	0.0	0.0	0.0
078	11/1/2018	10:48:55	0.0	0.0	0.0	0.0
079	11/1/2018	10:49:55	0.0	0.0	0.0	0.0
080	11/1/2018	10:50:55	0.0	0.1	0.1	0.0
081	11/1/2018	10:51:55	0.0	0.0	0.1	0.0
082	11/1/2018	10:52:55	0.0	0.0	0.1	0.0
083	11/1/2018	10:53:55	0.0	0.0	0.0	0.0
084	11/1/2018	10:54:55	0.0	0.0	0.0	0.0
085	11/1/2018	10:55:55	0.0	0.0	0.0	0.0
086	11/1/2018	10:56:55	0.0	0.0	0.1	0.1
087	11/1/2018	10:57:55	0.1	0.1	0.1	0.1
088	11/1/2018	10:58:55	0.1	0.1	0.1	0.1
089	11/1/2018	10:59:55	0.1	0.1	0.1	0.1
090	11/1/2018	11:00:55	0.1	0.1	0.1	0.1
091	11/1/2018	11:01:55	0.1	0.1	0.1	0.1
092	11/1/2018	11:02:55	0.1	0.1	0.1	0.1
093	11/1/2018	11:03:55	0.1	0.1	0.1	0.1
094	11/1/2018	11:04:55	0.1	0.1	0.1	0.1
095	11/1/2018	11:05:55	0.1	0.1	0.1	0.1
096	11/1/2018	11:06:55	0.1	0.1	0.1	0.1
097	11/1/2018	11:07:55	0.1	0.1	0.1	0.1
098	11/1/2018	11:08:55	0.1	0.1	0.1	0.1
099	11/1/2018	11:09:55	0.1	0.1	0.1	0.1
100	11/1/2018	11:10:55	0.1	0.1	0.1	0.1
101	11/1/2018	11:11:55	0.1	0.1	0.1	0.1
102	11/1/2018	11:12:55	0.1	0.1	0.1	0.1

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103	11/1/2018	11:13:55	0.1	0.1	0.1	0.1
104	11/1/2018	11:14:55	0.1	0.1	0.1	0.1
105	11/1/2018	11:15:55	0.1	0.1	0.1	0.1
106	11/1/2018	11:16:55	0.1	0.1	0.1	0.1
107	11/1/2018	11:17:55	0.1	0.1	0.1	0.1
108	11/1/2018	11:18:55	0.1	0.1	0.1	0.1
109	11/1/2018	11:19:55	0.1	0.1	0.1	0.1
110	11/1/2018	11:20:55	0.1	0.1	0.1	0.1
111	11/1/2018	11:21:55	0.1	0.1	0.1	0.1
112	11/1/2018	11:22:55	0.1	0.1	0.1	0.1
113	11/1/2018	11:23:55	0.1	0.1	0.1	0.1
114	11/1/2018	11:24:55	0.1	0.1	0.1	0.1
115	11/1/2018	11:25:55	0.1	0.1	0.1	0.1
116	11/1/2018	11:26:55	0.1	0.1	0.1	0.1
117	11/1/2018	11:27:55	0.1	0.1	0.1	0.1
118	11/1/2018	11:28:55	0.1	0.1	0.1	0.1
119	11/1/2018	11:29:55	0.1	0.1	0.1	0.1
120	11/1/2018	11:30:55	0.1	0.1	0.1	0.1
121	11/1/2018	11:31:55	0.1	0.1	0.1	0.1
122	11/1/2018	11:32:55	0.1	0.1	0.1	0.1
123	11/1/2018	11:33:55	0.1	0.1	0.1	0.1
124	11/1/2018	11:34:55	0.1	0.1	0.1	0.1
125	11/1/2018	11:35:55	0.1	0.1	0.1	0.1
126	11/1/2018	11:36:55	0.1	0.1	0.1	0.1
127	11/1/2018	11:37:55	0.1	0.1	0.1	0.1
128	11/1/2018	11:38:55	0.1	0.1	0.1	0.1
129	11/1/2018	11:39:55	0.1	0.1	0.1	0.1
130	11/1/2018	11:40:55	0.1	0.1	0.1	0.1
131	11/1/2018	11:41:55	0.1	0.1	0.1	0.1
132	11/1/2018	11:42:55	0.1	0.1	0.1	0.1
133	11/1/2018	11:43:55	0.1	0.1	0.1	0.1
134	11/1/2018	11:44:55	0.1	0.1	0.1	0.1
135	11/1/2018	11:45:55	0.1	0.1	0.1	0.1
136	11/1/2018	11:46:55	0.1	0.1	0.1	0.1
137	11/1/2018	11:47:55	0.1	0.1	0.1	0.1
138	11/1/2018	11:48:55	0.1	0.1	0.1	0.1
139	11/1/2018	11:49:55	0.1	0.1	0.1	0.1
140	11/1/2018	11:50:55	0.1	0.1	0.1	0.1
141	11/1/2018	11:51:55	0.1	0.1	0.1	0.1
142	11/1/2018	11:52:55	0.1	0.1	0.1	0.1
143	11/1/2018	11:53:55	0.1	0.1	0.1	0.1
144	11/1/2018	11:54:55	0.1	0.1	0.1	0.1
145	11/1/2018	11:55:55	0.1	0.1	0.1	0.1
146	11/1/2018	11:56:55	0.1	0.1	0.1	0.1
147	11/1/2018	11:57:55	0.1	0.1	0.1	0.1
148	11/1/2018	11:58:55	0.1	0.1	0.1	0.1
149	11/1/2018	11:59:55	0.1	0.1	0.1	0.1
150	11/1/2018	12:00:55	0.1	0.1	0.1	0.1

PRS_EXPORT_20181119.txtR12238

151	11/1/2018	12:01:55	0.1	0.1	0.1	0.1
152	11/1/2018	12:02:55	0.1	0.1	0.1	0.1
153	11/1/2018	12:03:55	0.1	0.1	0.1	0.1
154	11/1/2018	12:04:55	0.1	0.1	0.1	0.1
155	11/1/2018	12:05:55	0.1	0.1	0.1	0.1
156	11/1/2018	12:06:55	0.1	0.1	0.1	0.1
157	11/1/2018	12:07:55	0.1	0.1	0.1	0.1
158	11/1/2018	12:08:55	0.1	0.1	0.1	0.1
159	11/1/2018	12:09:55	0.1	0.1	0.1	0.1
160	11/1/2018	12:10:55	0.1	0.1	0.1	0.1
161	11/1/2018	12:11:55	0.1	0.1	0.1	0.1
162	11/1/2018	12:12:55	0.1	0.1	0.1	0.1
163	11/1/2018	12:13:55	0.1	0.1	0.1	0.1
164	11/1/2018	12:14:55	0.1	0.1	0.1	0.1
165	11/1/2018	12:15:55	0.1	0.1	0.1	0.1
166	11/1/2018	12:16:55	0.1	0.1	0.1	0.1
167	11/1/2018	12:17:55	0.1	0.1	0.1	0.1
168	11/1/2018	12:18:55	0.1	0.1	0.1	0.1
169	11/1/2018	12:19:55	0.1	0.1	0.1	0.1
170	11/1/2018	12:20:55	0.1	0.1	0.1	0.1
171	11/1/2018	12:21:55	0.1	0.1	0.1	0.1
172	11/1/2018	12:22:55	0.1	0.1	0.1	0.1
173	11/1/2018	12:23:55	0.1	0.1	0.1	0.1
174	11/1/2018	12:24:55	0.1	0.1	0.1	0.1
175	11/1/2018	12:25:55	0.1	0.1	0.1	0.1
176	11/1/2018	12:26:55	0.1	0.1	0.1	0.1
177	11/1/2018	12:27:55	0.1	0.1	0.1	0.1
178	11/1/2018	12:28:55	0.1	0.1	0.1	0.1
179	11/1/2018	12:29:55	0.1	0.1	0.1	0.1
180	11/1/2018	12:30:55	0.1	0.1	0.2	0.2
181	11/1/2018	12:31:55	0.2	0.2	0.2	0.2
182	11/1/2018	12:32:55	0.2	0.2	0.2	0.2
183	11/1/2018	12:33:55	0.2	0.2	0.2	0.2
184	11/1/2018	12:34:55	0.2	0.2	0.2	0.2
185	11/1/2018	12:35:55	0.1	0.1	0.2	0.1
186	11/1/2018	12:36:55	0.1	0.1	0.2	0.1
187	11/1/2018	12:37:55	0.1	0.1	0.2	0.1
188	11/1/2018	12:38:55	0.1	0.1	0.1	0.1
189	11/1/2018	12:39:55	0.1	0.1	0.1	0.1
190	11/1/2018	12:40:55	0.1	0.1	0.1	0.1
191	11/1/2018	12:41:55	0.1	0.1	0.1	0.1
192	11/1/2018	12:42:55	0.1	0.1	0.1	0.1
193	11/1/2018	12:43:55	0.1	0.1	0.1	0.1
194	11/1/2018	12:44:55	0.1	0.1	0.1	0.1
195	11/1/2018	12:45:55	0.1	0.1	0.1	0.1
196	11/1/2018	12:46:55	0.1	0.1	0.1	0.1
197	11/1/2018	12:47:55	0.1	0.1	0.1	0.1
198	11/1/2018	12:48:55	0.1	0.1	0.1	0.1

PRS_EXPORT_20181119.txtR12238

199	11/1/2018	12:49:55	0.1	0.1	0.1	0.1
200	11/1/2018	12:50:55	0.1	0.1	0.1	0.1
201	11/1/2018	12:51:55	0.1	0.1	0.1	0.1
202	11/1/2018	12:52:55	0.1	0.1	0.1	0.1
203	11/1/2018	12:53:55	0.1	0.1	0.1	0.1
204	11/1/2018	12:54:55	0.1	0.1	0.1	0.1
205	11/1/2018	12:55:55	0.1	0.1	0.1	0.1
206	11/1/2018	12:56:55	0.1	0.1	0.1	0.1
207	11/1/2018	12:57:55	0.1	0.1	0.1	0.1
208	11/1/2018	12:58:55	0.1	0.1	0.1	0.1
209	11/1/2018	12:59:55	0.1	0.1	0.1	0.1
210	11/1/2018	13:00:55	0.1	0.1	0.1	0.1
211	11/1/2018	13:01:55	0.1	0.1	0.1	0.1
212	11/1/2018	13:02:55	0.1	0.1	0.1	0.1
213	11/1/2018	13:03:55	0.1	0.1	0.1	0.1
214	11/1/2018	13:04:55	0.1	0.1	0.1	0.1
215	11/1/2018	13:05:55	0.1	0.1	0.1	0.1
216	11/1/2018	13:06:55	0.1	0.1	0.1	0.1
217	11/1/2018	13:07:55	0.1	0.1	0.1	0.1
218	11/1/2018	13:08:55	0.1	0.1	0.1	0.1
219	11/1/2018	13:09:55	0.1	0.1	0.1	0.1
220	11/1/2018	13:10:55	0.1	0.1	0.1	0.1
221	11/1/2018	13:11:55	0.1	0.1	0.1	0.1
222	11/1/2018	13:12:55	0.1	0.1	0.1	0.1
223	11/1/2018	13:13:55	0.1	0.1	0.1	0.1
224	11/1/2018	13:14:55	0.1	0.1	0.1	0.1
225	11/1/2018	13:15:55	0.1	0.1	0.1	0.1
226	11/1/2018	13:16:55	0.1	0.1	0.1	0.1
227	11/1/2018	13:17:55	0.1	0.1	0.1	0.1
228	11/1/2018	13:18:55	0.1	0.1	0.1	0.1
229	11/1/2018	13:19:55	0.1	0.1	0.1	0.1
230	11/1/2018	13:20:55	0.1	0.1	0.1	0.1
231	11/1/2018	13:21:55	0.1	0.1	0.1	0.1
232	11/1/2018	13:22:55	0.1	0.1	0.1	0.1
233	11/1/2018	13:23:55	0.1	0.1	0.1	0.1
234	11/1/2018	13:24:55	0.1	0.1	0.1	0.1
235	11/1/2018	13:25:55	0.1	0.1	0.1	0.1
236	11/1/2018	13:26:55	0.1	0.1	0.1	0.1
237	11/1/2018	13:27:55	0.1	0.1	0.1	0.1
238	11/1/2018	13:28:55	0.1	0.1	0.1	0.1
239	11/1/2018	13:29:55	0.1	0.1	0.1	0.1
240	11/1/2018	13:30:55	0.1	0.1	0.1	0.1
241	11/1/2018	13:31:55	0.1	0.1	0.1	0.1
242	11/1/2018	13:32:55	0.1	0.1	0.1	0.1
243	11/1/2018	13:33:55	0.1	0.1	0.1	0.1
244	11/1/2018	13:34:55	0.1	0.1	0.1	0.1
245	11/1/2018	13:35:55	0.1	0.1	0.1	0.1
246	11/1/2018	13:36:55	0.1	0.1	0.1	0.1

PRS_EXPORT_20181119.txtR12238

247	11/1/2018	13:37:55	0.1	0.1	0.1	0.1
248	11/1/2018	13:38:55	0.1	0.1	0.1	0.1
249	11/1/2018	13:39:55	0.1	0.1	0.1	0.1
250	11/1/2018	13:40:55	0.1	0.1	0.1	0.1
251	11/1/2018	13:41:55	0.1	0.1	0.1	0.1
252	11/1/2018	13:42:55	0.1	0.1	0.1	0.1
253	11/1/2018	13:43:55	0.1	0.1	0.1	0.1
254	11/1/2018	13:44:55	0.1	0.1	0.1	0.1
255	11/1/2018	13:45:55	0.1	0.1	0.1	0.1
256	11/1/2018	13:46:55	0.1	0.1	0.1	0.1
257	11/1/2018	13:47:55	0.1	0.1	0.1	0.1
258	11/1/2018	13:48:55	0.1	0.1	0.1	0.1
259	11/1/2018	13:49:55	0.1	0.1	0.1	0.1
260	11/1/2018	13:50:55	0.1	0.1	0.1	0.1
261	11/1/2018	13:51:55	0.1	0.1	0.1	0.1
262	11/1/2018	13:52:55	0.1	0.1	0.1	0.1
263	11/1/2018	13:53:55	0.1	0.1	0.1	0.1
264	11/1/2018	13:54:55	0.1	0.1	0.1	0.1
265	11/1/2018	13:55:55	0.1	0.1	0.1	0.1
266	11/1/2018	13:56:55	0.1	0.1	0.1	0.1
267	11/1/2018	13:57:55	0.1	0.1	0.1	0.1
268	11/1/2018	13:58:55	0.1	0.1	0.1	0.1
269	11/1/2018	13:59:55	0.1	0.1	0.1	0.1
270	11/1/2018	14:00:55	0.1	0.1	0.1	0.1
271	11/1/2018	14:01:55	0.1	0.1	0.1	0.1
272	11/1/2018	14:02:55	0.1	0.1	0.1	0.1
273	11/1/2018	14:03:55	0.1	0.1	0.1	0.1
274	11/1/2018	14:04:55	0.1	0.1	0.1	0.1
275	11/1/2018	14:05:55	0.1	0.1	0.1	0.1
276	11/1/2018	14:06:55	0.0	0.1	0.1	0.1
277	11/1/2018	14:07:55	0.1	0.1	0.1	0.1
278	11/1/2018	14:08:55	0.1	0.1	0.1	0.1
279	11/1/2018	14:09:55	0.1	0.1	0.1	0.1
280	11/1/2018	14:10:55	0.1	0.1	0.1	0.1
281	11/1/2018	14:11:55	0.1	0.1	0.1	0.1
282	11/1/2018	14:12:55	0.1	0.1	0.1	0.1
283	11/1/2018	14:13:55	0.1	0.1	0.1	0.1
284	11/1/2018	14:14:55	0.1	0.1	0.1	0.1
285	11/1/2018	14:15:55	0.1	0.1	0.1	0.1
286	11/1/2018	14:16:55	0.1	0.1	0.1	0.1
287	11/1/2018	14:17:55	0.1	0.1	0.1	0.1
288	11/1/2018	14:18:55	0.1	0.1	0.1	0.1
289	11/1/2018	14:19:55	0.1	0.1	0.1	0.1
290	11/1/2018	14:20:55	0.1	0.1	0.1	0.1
291	11/1/2018	14:21:55	0.1	0.1	0.1	0.1
292	11/1/2018	14:22:55	0.1	0.1	0.1	0.1
293	11/1/2018	14:23:55	0.1	0.1	0.1	0.1
294	11/1/2018	14:24:55	0.1	0.1	0.1	0.1

PRS_EXPORT_20181119.txtR12238

295	11/1/2018	14:25:55	0.0	0.1	0.1	0.1
296	11/1/2018	14:26:55	0.0	0.1	0.1	0.0
297	11/1/2018	14:27:55	0.0	0.0	0.1	0.1
298	11/1/2018	14:28:55	0.0	0.1	0.1	0.1
299	11/1/2018	14:29:55	0.1	0.1	0.1	0.1
300	11/1/2018	14:30:55	0.0	0.1	0.1	0.0
301	11/1/2018	14:31:55	0.0	0.0	0.0	0.0
302	11/1/2018	14:32:55	0.0	0.0	0.0	0.0
303	11/1/2018	14:33:55	0.0	0.0	0.0	0.0
304	11/1/2018	14:34:55	0.0	0.0	0.0	0.0
305	11/1/2018	14:35:55	0.0	0.0	0.0	0.0
306	11/1/2018	14:36:55	0.0	0.0	0.0	0.0
307	11/1/2018	14:37:55	0.0	0.0	0.0	0.0
308	11/1/2018	14:38:55	0.0	0.0	0.0	0.0
309	11/1/2018	14:39:55	0.0	0.0	0.0	0.0
310	11/1/2018	14:40:55	0.0	0.0	0.0	0.0
311	11/1/2018	14:41:55	0.0	0.0	0.0	0.0
312	11/1/2018	14:42:55	0.0	0.0	0.0	0.0
313	11/1/2018	14:43:55	0.0	0.0	0.0	0.0
314	11/1/2018	14:44:55	0.0	0.0	0.0	0.0
315	11/1/2018	14:45:55	0.0	0.0	0.0	0.0
316	11/1/2018	14:46:55	0.0	0.0	0.0	0.0
317	11/1/2018	14:47:55	0.0	0.0	0.0	0.0
318	11/1/2018	14:48:55	0.0	0.0	0.0	0.0
319	11/1/2018	14:49:55	0.0	0.0	0.0	0.0
320	11/1/2018	14:50:55	0.0	0.0	0.0	0.0
321	11/1/2018	14:51:55	0.0	0.0	0.0	0.0
322	11/1/2018	14:52:55	0.0	0.0	0.0	0.0
323	11/1/2018	14:53:55	0.0	0.0	0.0	0.0
324	11/1/2018	14:54:55	0.0	0.0	0.0	0.0
325	11/1/2018	14:55:55	0.0	0.0	0.0	0.0
326	11/1/2018	14:56:55	0.0	0.0	0.0	0.0
327	11/1/2018	14:57:55	0.0	0.0	0.0	0.0
328	11/1/2018	14:58:55	0.0	0.0	0.0	0.0
329	11/1/2018	14:59:55	0.0	0.0	0.0	0.0
330	11/1/2018	15:00:55	0.0	0.0	0.0	0.0
331	11/1/2018	15:01:55	0.0	0.0	0.0	0.0
332	11/1/2018	15:02:55	0.0	0.0	0.0	0.0
333	11/1/2018	15:03:55	0.0	0.0	0.0	0.0
334	11/1/2018	15:04:55	0.0	0.0	0.0	0.0
335	11/1/2018	15:05:55	0.0	0.0	0.0	0.0
336	11/1/2018	15:06:55	0.0	0.0	0.0	0.0
337	11/1/2018	15:07:55	0.0	0.0	0.0	0.0
338	11/1/2018	15:08:55	0.0	0.0	0.1	0.0
Peak		0.2	0.2	0.2	0.2	
Min		0.0	0.0	0.0	0.0	
Average		0.1	0.1	0.1	0.1	

TWA/STEL

Index	Date/Time	PID(ppm) (TWA)	PID(ppm) (STEL)	
001	11/1/2018 09:31:55	0.0	0.0	---
002	11/1/2018 09:32:55	0.0	0.0	---
003	11/1/2018 09:33:55	0.0	0.0	---
004	11/1/2018 09:34:55	0.0	0.0	---
005	11/1/2018 09:35:55	0.0	0.0	---
006	11/1/2018 09:36:55	0.0	0.0	---
007	11/1/2018 09:37:55	0.0	0.0	---
008	11/1/2018 09:38:55	0.0	0.0	---
009	11/1/2018 09:39:55	0.0	0.0	---
010	11/1/2018 09:40:55	0.0	0.0	---
011	11/1/2018 09:41:55	0.0	0.0	---
012	11/1/2018 09:42:55	0.0	0.0	---
013	11/1/2018 09:43:55	0.0	0.0	---
014	11/1/2018 09:44:55	0.0	0.0	---
015	11/1/2018 09:45:55	0.0	0.0	0.0
016	11/1/2018 09:46:55	0.0	0.0	0.0
017	11/1/2018 09:47:55	0.0	0.0	0.0
018	11/1/2018 09:48:55	0.0	0.0	0.0
019	11/1/2018 09:49:55	0.0	0.0	0.0
020	11/1/2018 09:50:55	0.0	0.0	0.0
021	11/1/2018 09:51:55	0.0	0.0	0.0
022	11/1/2018 09:52:55	0.0	0.0	0.0
023	11/1/2018 09:53:55	0.0	0.0	0.0
024	11/1/2018 09:54:55	0.0	0.0	0.0
025	11/1/2018 09:55:55	0.0	0.0	0.0
026	11/1/2018 09:56:55	0.0	0.0	0.0
027	11/1/2018 09:57:55	0.0	0.0	0.0
028	11/1/2018 09:58:55	0.0	0.0	0.0
029	11/1/2018 09:59:55	0.0	0.0	0.0
030	11/1/2018 10:00:55	0.0	0.0	0.0
031	11/1/2018 10:01:55	0.0	0.0	0.0
032	11/1/2018 10:02:55	0.0	0.0	0.0
033	11/1/2018 10:03:55	0.0	0.0	0.0
034	11/1/2018 10:04:55	0.0	0.0	0.0
035	11/1/2018 10:05:55	0.0	0.0	0.0
036	11/1/2018 10:06:55	0.0	0.0	0.0
037	11/1/2018 10:07:55	0.0	0.0	0.0
038	11/1/2018 10:08:55	0.0	0.0	0.0
039	11/1/2018 10:09:55	0.0	0.0	0.0
040	11/1/2018 10:10:55	0.0	0.0	0.0
041	11/1/2018 10:11:55	0.0	0.0	0.0
042	11/1/2018 10:12:55	0.0	0.0	0.0
043	11/1/2018 10:13:55	0.0	0.0	0.0
044	11/1/2018 10:14:55	0.0	0.0	0.0

PRS_EXPORT_20181119.txtR12238

045	11/1/2018	10:15:55	0.0	0.0
046	11/1/2018	10:16:55	0.0	0.0
047	11/1/2018	10:17:55	0.0	0.0
048	11/1/2018	10:18:55	0.0	0.0
049	11/1/2018	10:19:55	0.0	0.0
050	11/1/2018	10:20:55	0.0	0.0
051	11/1/2018	10:21:55	0.0	0.0
052	11/1/2018	10:22:55	0.0	0.0
053	11/1/2018	10:23:55	0.0	0.0
054	11/1/2018	10:24:55	0.0	0.0
055	11/1/2018	10:25:55	0.0	0.0
056	11/1/2018	10:26:55	0.0	0.0
057	11/1/2018	10:27:55	0.0	0.0
058	11/1/2018	10:28:55	0.0	0.0
059	11/1/2018	10:29:55	0.0	0.0
060	11/1/2018	10:30:55	0.0	0.0
061	11/1/2018	10:31:55	0.0	0.0
062	11/1/2018	10:32:55	0.0	0.0
063	11/1/2018	10:33:55	0.0	0.0
064	11/1/2018	10:34:55	0.0	0.0
065	11/1/2018	10:35:55	0.0	0.0
066	11/1/2018	10:36:55	0.0	0.0
067	11/1/2018	10:37:55	0.0	0.0
068	11/1/2018	10:38:55	0.0	0.0
069	11/1/2018	10:39:55	0.0	0.0
070	11/1/2018	10:40:55	0.0	0.0
071	11/1/2018	10:41:55	0.0	0.0
072	11/1/2018	10:42:55	0.0	0.0
073	11/1/2018	10:43:55	0.0	0.0
074	11/1/2018	10:44:55	0.0	0.0
075	11/1/2018	10:45:55	0.0	0.0
076	11/1/2018	10:46:55	0.0	0.0
077	11/1/2018	10:47:55	0.0	0.0
078	11/1/2018	10:48:55	0.0	0.0
079	11/1/2018	10:49:55	0.0	0.0
080	11/1/2018	10:50:55	0.0	0.0
081	11/1/2018	10:51:55	0.0	0.0
082	11/1/2018	10:52:55	0.0	0.0
083	11/1/2018	10:53:55	0.0	0.0
084	11/1/2018	10:54:55	0.0	0.0
085	11/1/2018	10:55:55	0.0	0.0
086	11/1/2018	10:56:55	0.0	0.0
087	11/1/2018	10:57:55	0.0	0.0
088	11/1/2018	10:58:55	0.0	0.0
089	11/1/2018	10:59:55	0.0	0.0
090	11/1/2018	11:00:55	0.0	0.0
091	11/1/2018	11:01:55	0.0	0.0
092	11/1/2018	11:02:55	0.0	0.0

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093	11/1/2018	11:03:55	0.0	0.1
094	11/1/2018	11:04:55	0.0	0.1
095	11/1/2018	11:05:55	0.0	0.1
096	11/1/2018	11:06:55	0.0	0.1
097	11/1/2018	11:07:55	0.0	0.1
098	11/1/2018	11:08:55	0.0	0.1
099	11/1/2018	11:09:55	0.0	0.1
100	11/1/2018	11:10:55	0.0	0.1
101	11/1/2018	11:11:55	0.0	0.1
102	11/1/2018	11:12:55	0.0	0.1
103	11/1/2018	11:13:55	0.0	0.1
104	11/1/2018	11:14:55	0.0	0.1
105	11/1/2018	11:15:55	0.0	0.1
106	11/1/2018	11:16:55	0.0	0.1
107	11/1/2018	11:17:55	0.0	0.1
108	11/1/2018	11:18:55	0.0	0.1
109	11/1/2018	11:19:55	0.0	0.1
110	11/1/2018	11:20:55	0.0	0.1
111	11/1/2018	11:21:55	0.0	0.1
112	11/1/2018	11:22:55	0.0	0.1
113	11/1/2018	11:23:55	0.0	0.1
114	11/1/2018	11:24:55	0.0	0.1
115	11/1/2018	11:25:55	0.0	0.1
116	11/1/2018	11:26:55	0.0	0.1
117	11/1/2018	11:27:55	0.0	0.1
118	11/1/2018	11:28:55	0.0	0.1
119	11/1/2018	11:29:55	0.0	0.1
120	11/1/2018	11:30:55	0.0	0.1
121	11/1/2018	11:31:55	0.0	0.1
122	11/1/2018	11:32:55	0.0	0.1
123	11/1/2018	11:33:55	0.0	0.1
124	11/1/2018	11:34:55	0.0	0.1
125	11/1/2018	11:35:55	0.0	0.1
126	11/1/2018	11:36:55	0.0	0.1
127	11/1/2018	11:37:55	0.0	0.1
128	11/1/2018	11:38:55	0.0	0.1
129	11/1/2018	11:39:55	0.0	0.1
130	11/1/2018	11:40:55	0.0	0.1
131	11/1/2018	11:41:55	0.0	0.1
132	11/1/2018	11:42:55	0.0	0.1
133	11/1/2018	11:43:55	0.0	0.1
134	11/1/2018	11:44:55	0.0	0.1
135	11/1/2018	11:45:55	0.0	0.1
136	11/1/2018	11:46:55	0.0	0.1
137	11/1/2018	11:47:55	0.0	0.1
138	11/1/2018	11:48:55	0.0	0.1
139	11/1/2018	11:49:55	0.0	0.1
140	11/1/2018	11:50:55	0.0	0.1

PRS_EXPORT_20181119.txtR12238

141	11/1/2018	11:51:55	0.0	0.1
142	11/1/2018	11:52:55	0.0	0.1
143	11/1/2018	11:53:55	0.0	0.1
144	11/1/2018	11:54:55	0.0	0.1
145	11/1/2018	11:55:55	0.0	0.1
146	11/1/2018	11:56:55	0.0	0.1
147	11/1/2018	11:57:55	0.0	0.1
148	11/1/2018	11:58:55	0.0	0.1
149	11/1/2018	11:59:55	0.0	0.1
150	11/1/2018	12:00:55	0.0	0.1
151	11/1/2018	12:01:55	0.0	0.1
152	11/1/2018	12:02:55	0.0	0.1
153	11/1/2018	12:03:55	0.0	0.1
154	11/1/2018	12:04:55	0.0	0.1
155	11/1/2018	12:05:55	0.0	0.1
156	11/1/2018	12:06:55	0.0	0.1
157	11/1/2018	12:07:55	0.0	0.1
158	11/1/2018	12:08:55	0.0	0.1
159	11/1/2018	12:09:55	0.0	0.1
160	11/1/2018	12:10:55	0.0	0.1
161	11/1/2018	12:11:55	0.0	0.1
162	11/1/2018	12:12:55	0.0	0.1
163	11/1/2018	12:13:55	0.0	0.1
164	11/1/2018	12:14:55	0.0	0.1
165	11/1/2018	12:15:55	0.0	0.1
166	11/1/2018	12:16:55	0.0	0.1
167	11/1/2018	12:17:55	0.0	0.1
168	11/1/2018	12:18:55	0.0	0.1
169	11/1/2018	12:19:55	0.0	0.1
170	11/1/2018	12:20:55	0.0	0.1
171	11/1/2018	12:21:55	0.0	0.1
172	11/1/2018	12:22:55	0.0	0.1
173	11/1/2018	12:23:55	0.0	0.1
174	11/1/2018	12:24:55	0.0	0.1
175	11/1/2018	12:25:55	0.0	0.1
176	11/1/2018	12:26:55	0.0	0.1
177	11/1/2018	12:27:55	0.0	0.1
178	11/1/2018	12:28:55	0.0	0.1
179	11/1/2018	12:29:55	0.0	0.1
180	11/1/2018	12:30:55	0.0	0.1
181	11/1/2018	12:31:55	0.0	0.1
182	11/1/2018	12:32:55	0.0	0.1
183	11/1/2018	12:33:55	0.0	0.1
184	11/1/2018	12:34:55	0.0	0.1
185	11/1/2018	12:35:55	0.0	0.1
186	11/1/2018	12:36:55	0.0	0.1
187	11/1/2018	12:37:55	0.0	0.1
188	11/1/2018	12:38:55	0.0	0.1

PRS_EXPORT_20181119.txtR12238

189	11/1/2018	12:39:55	0.0	0.1
190	11/1/2018	12:40:55	0.0	0.1
191	11/1/2018	12:41:55	0.0	0.1
192	11/1/2018	12:42:55	0.0	0.1
193	11/1/2018	12:43:55	0.0	0.1
194	11/1/2018	12:44:55	0.0	0.1
195	11/1/2018	12:45:55	0.0	0.1
196	11/1/2018	12:46:55	0.0	0.1
197	11/1/2018	12:47:55	0.0	0.1
198	11/1/2018	12:48:55	0.0	0.1
199	11/1/2018	12:49:55	0.0	0.1
200	11/1/2018	12:50:55	0.0	0.1
201	11/1/2018	12:51:55	0.0	0.1
202	11/1/2018	12:52:55	0.0	0.1
203	11/1/2018	12:53:55	0.0	0.1
204	11/1/2018	12:54:55	0.0	0.1
205	11/1/2018	12:55:55	0.0	0.1
206	11/1/2018	12:56:55	0.0	0.1
207	11/1/2018	12:57:55	0.0	0.1
208	11/1/2018	12:58:55	0.0	0.1
209	11/1/2018	12:59:55	0.0	0.1
210	11/1/2018	13:00:55	0.0	0.1
211	11/1/2018	13:01:55	0.0	0.1
212	11/1/2018	13:02:55	0.0	0.1
213	11/1/2018	13:03:55	0.0	0.1
214	11/1/2018	13:04:55	0.0	0.1
215	11/1/2018	13:05:55	0.0	0.1
216	11/1/2018	13:06:55	0.0	0.1
217	11/1/2018	13:07:55	0.0	0.1
218	11/1/2018	13:08:55	0.0	0.1
219	11/1/2018	13:09:55	0.0	0.1
220	11/1/2018	13:10:55	0.0	0.1
221	11/1/2018	13:11:55	0.0	0.1
222	11/1/2018	13:12:55	0.0	0.1
223	11/1/2018	13:13:55	0.0	0.1
224	11/1/2018	13:14:55	0.0	0.1
225	11/1/2018	13:15:55	0.0	0.1
226	11/1/2018	13:16:55	0.0	0.1
227	11/1/2018	13:17:55	0.0	0.1
228	11/1/2018	13:18:55	0.0	0.1
229	11/1/2018	13:19:55	0.0	0.1
230	11/1/2018	13:20:55	0.0	0.1
231	11/1/2018	13:21:55	0.0	0.1
232	11/1/2018	13:22:55	0.0	0.1
233	11/1/2018	13:23:55	0.0	0.1
234	11/1/2018	13:24:55	0.0	0.1
235	11/1/2018	13:25:55	0.0	0.1
236	11/1/2018	13:26:55	0.0	0.1

PRS_EXPORT_20181119.txtR12238

237	11/1/2018	13:27:55	0.0	0.1
238	11/1/2018	13:28:55	0.0	0.1
239	11/1/2018	13:29:55	0.0	0.1
240	11/1/2018	13:30:55	0.0	0.1
241	11/1/2018	13:31:55	0.0	0.1
242	11/1/2018	13:32:55	0.0	0.1
243	11/1/2018	13:33:55	0.0	0.1
244	11/1/2018	13:34:55	0.0	0.1
245	11/1/2018	13:35:55	0.0	0.1
246	11/1/2018	13:36:55	0.0	0.1
247	11/1/2018	13:37:55	0.0	0.1
248	11/1/2018	13:38:55	0.0	0.1
249	11/1/2018	13:39:55	0.0	0.1
250	11/1/2018	13:40:55	0.0	0.1
251	11/1/2018	13:41:55	0.0	0.1
252	11/1/2018	13:42:55	0.0	0.1
253	11/1/2018	13:43:55	0.0	0.1
254	11/1/2018	13:44:55	0.0	0.1
255	11/1/2018	13:45:55	0.0	0.1
256	11/1/2018	13:46:55	0.0	0.1
257	11/1/2018	13:47:55	0.0	0.1
258	11/1/2018	13:48:55	0.0	0.1
259	11/1/2018	13:49:55	0.0	0.1
260	11/1/2018	13:50:55	0.0	0.1
261	11/1/2018	13:51:55	0.0	0.1
262	11/1/2018	13:52:55	0.0	0.1
263	11/1/2018	13:53:55	0.0	0.1
264	11/1/2018	13:54:55	0.0	0.1
265	11/1/2018	13:55:55	0.0	0.1
266	11/1/2018	13:56:55	0.0	0.1
267	11/1/2018	13:57:55	0.0	0.1
268	11/1/2018	13:58:55	0.0	0.1
269	11/1/2018	13:59:55	0.0	0.1
270	11/1/2018	14:00:55	0.0	0.1
271	11/1/2018	14:01:55	0.0	0.1
272	11/1/2018	14:02:55	0.0	0.1
273	11/1/2018	14:03:55	0.0	0.1
274	11/1/2018	14:04:55	0.0	0.1
275	11/1/2018	14:05:55	0.0	0.1
276	11/1/2018	14:06:55	0.0	0.1
277	11/1/2018	14:07:55	0.0	0.1
278	11/1/2018	14:08:55	0.0	0.1
279	11/1/2018	14:09:55	0.0	0.1
280	11/1/2018	14:10:55	0.0	0.1
281	11/1/2018	14:11:55	0.0	0.1
282	11/1/2018	14:12:55	0.0	0.1
283	11/1/2018	14:13:55	0.0	0.1
284	11/1/2018	14:14:55	0.0	0.1

PRS_EXPORT_20181119.txtR12238

285	11/1/2018	14:15:55	0.0	0.1
286	11/1/2018	14:16:55	0.0	0.1
287	11/1/2018	14:17:55	0.0	0.1
288	11/1/2018	14:18:55	0.0	0.1
289	11/1/2018	14:19:55	0.0	0.1
290	11/1/2018	14:20:55	0.0	0.1
291	11/1/2018	14:21:55	0.0	0.1
292	11/1/2018	14:22:55	0.0	0.1
293	11/1/2018	14:23:55	0.0	0.1
294	11/1/2018	14:24:55	0.0	0.1
295	11/1/2018	14:25:55	0.0	0.1
296	11/1/2018	14:26:55	0.0	0.1
297	11/1/2018	14:27:55	0.0	0.1
298	11/1/2018	14:28:55	0.0	0.1
299	11/1/2018	14:29:55	0.0	0.1
300	11/1/2018	14:30:55	0.0	0.1
301	11/1/2018	14:31:55	0.0	0.1
302	11/1/2018	14:32:55	0.0	0.1
303	11/1/2018	14:33:55	0.0	0.1
304	11/1/2018	14:34:55	0.0	0.1
305	11/1/2018	14:35:55	0.0	0.1
306	11/1/2018	14:36:55	0.0	0.1
307	11/1/2018	14:37:55	0.0	0.0
308	11/1/2018	14:38:55	0.0	0.0
309	11/1/2018	14:39:55	0.0	0.0
310	11/1/2018	14:40:55	0.0	0.0
311	11/1/2018	14:41:55	0.0	0.0
312	11/1/2018	14:42:55	0.0	0.0
313	11/1/2018	14:43:55	0.0	0.0
314	11/1/2018	14:44:55	0.0	0.0
315	11/1/2018	14:45:55	0.0	0.0
316	11/1/2018	14:46:55	0.0	0.0
317	11/1/2018	14:47:55	0.0	0.0
318	11/1/2018	14:48:55	0.0	0.0
319	11/1/2018	14:49:55	0.0	0.0
320	11/1/2018	14:50:55	0.0	0.0
321	11/1/2018	14:51:55	0.0	0.0
322	11/1/2018	14:52:55	0.0	0.0
323	11/1/2018	14:53:55	0.0	0.0
324	11/1/2018	14:54:55	0.0	0.0
325	11/1/2018	14:55:55	0.0	0.0
326	11/1/2018	14:56:55	0.0	0.0
327	11/1/2018	14:57:55	0.0	0.0
328	11/1/2018	14:58:55	0.0	0.0
329	11/1/2018	14:59:55	0.0	0.0
330	11/1/2018	15:00:55	0.0	0.0
331	11/1/2018	15:01:55	0.0	0.0
332	11/1/2018	15:02:55	0.0	0.0

PRS_EXPORT_20181119.txtR12238

333	11/1/2018	15:03:55	0.0	0.0
334	11/1/2018	15:04:55	0.0	0.0
335	11/1/2018	15:05:55	0.0	0.0
336	11/1/2018	15:06:55	0.0	0.0
337	11/1/2018	15:07:55	0.0	0.0
338	11/1/2018	15:08:55	0.0	0.0

18/07/30 10:25

Summary

Unit Name MiniRAE 3000(PGM-7320)
Unit SN 592-919975
Unit Firmware Ver V2.14

Running Mode Hygiene Mode
Datalog Mode Manual
Diagnostic Mode No
Stop Reason Power Down

Site ID RAE00000
User ID UW000000

Begin 7/30/2018 10:25:33
End 7/30/2018 15:24:12
Sample Period(s) 60
Number of Records 298

Sensor PID(ppm)
Sensor SN S023030116U2
Measure Type Min; Avg; Max; Real
Span 100.0
Span 2 1000.0
Low Alarm 50.0
High Alarm 100.0
Over Alarm 15000.0
STEL Alarm 25.0
TWA Alarm 10.0
Measurement Gas Isobutylene
Calibration Time 7/27/2018 08:39
Peak 0.0
Min 0.0
Average 0.0

Datalog

Index	Date/Time	PID(ppm) (Min)	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)	PID(ppm)
001	7/30/2018 10:26:33	0.0	0.0	0.0	0.0	0.0
002	7/30/2018 10:27:33	0.0	0.0	0.0	0.0	0.0
003	7/30/2018 10:28:33	0.0	0.0	0.0	0.0	0.0
004	7/30/2018 10:29:33	0.0	0.0	0.0	0.0	0.0
005	7/30/2018 10:30:33	0.0	0.0	0.0	0.0	0.0
006	7/30/2018 10:31:33	0.0	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

007	7/30/2018	10:32:33	0.0	0.0	0.0	0.0
008	7/30/2018	10:33:33	0.0	0.0	0.0	0.0
009	7/30/2018	10:34:33	0.0	0.0	0.0	0.0
010	7/30/2018	10:35:33	0.0	0.0	0.0	0.0
011	7/30/2018	10:36:33	0.0	0.0	0.0	0.0
012	7/30/2018	10:37:33	0.0	0.0	0.0	0.0
013	7/30/2018	10:38:33	0.0	0.0	0.0	0.0
014	7/30/2018	10:39:33	0.0	0.0	0.0	0.0
015	7/30/2018	10:40:33	0.0	0.0	0.0	0.0
016	7/30/2018	10:41:33	0.0	0.0	0.0	0.0
017	7/30/2018	10:42:33	0.0	0.0	0.0	0.0
018	7/30/2018	10:43:33	0.0	0.0	0.0	0.0
019	7/30/2018	10:44:33	0.0	0.0	0.0	0.0
020	7/30/2018	10:45:33	0.0	0.0	0.0	0.0
021	7/30/2018	10:46:33	0.0	0.0	0.0	0.0
022	7/30/2018	10:47:33	0.0	0.0	0.0	0.0
023	7/30/2018	10:48:33	0.0	0.0	0.0	0.0
024	7/30/2018	10:49:33	0.0	0.0	0.0	0.0
025	7/30/2018	10:50:33	0.0	0.0	0.0	0.0
026	7/30/2018	10:51:33	0.0	0.0	0.0	0.0
027	7/30/2018	10:52:33	0.0	0.0	0.0	0.0
028	7/30/2018	10:53:33	0.0	0.0	0.0	0.0
029	7/30/2018	10:54:33	0.0	0.0	0.0	0.0
030	7/30/2018	10:55:33	0.0	0.0	0.0	0.0
031	7/30/2018	10:56:33	0.0	0.0	0.0	0.0
032	7/30/2018	10:57:33	0.0	0.0	0.0	0.0
033	7/30/2018	10:58:33	0.0	0.0	0.0	0.0
034	7/30/2018	10:59:33	0.0	0.0	0.0	0.0
035	7/30/2018	11:00:33	0.0	0.0	0.0	0.0
036	7/30/2018	11:01:33	0.0	0.0	0.0	0.0
037	7/30/2018	11:02:33	0.0	0.0	0.0	0.0
038	7/30/2018	11:03:33	0.0	0.0	0.0	0.0
039	7/30/2018	11:04:33	0.0	0.0	0.0	0.0
040	7/30/2018	11:05:33	0.0	0.0	0.0	0.0
041	7/30/2018	11:06:33	0.0	0.0	0.0	0.0
042	7/30/2018	11:07:33	0.0	0.0	0.0	0.0
043	7/30/2018	11:08:33	0.0	0.0	0.0	0.0
044	7/30/2018	11:09:33	0.0	0.0	0.0	0.0
045	7/30/2018	11:10:33	0.0	0.0	0.0	0.0
046	7/30/2018	11:11:33	0.0	0.0	0.0	0.0
047	7/30/2018	11:12:33	0.0	0.0	0.0	0.0
048	7/30/2018	11:13:33	0.0	0.0	0.0	0.0
049	7/30/2018	11:14:33	0.0	0.0	0.0	0.0
050	7/30/2018	11:15:33	0.0	0.0	0.0	0.0
051	7/30/2018	11:16:33	0.0	0.0	0.0	0.0
052	7/30/2018	11:17:33	0.0	0.0	0.0	0.0
053	7/30/2018	11:18:33	0.0	0.0	0.0	0.0
054	7/30/2018	11:19:33	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

055	7/30/2018	11:20:33	0.0	0.0	0.0	0.0
056	7/30/2018	11:21:33	0.0	0.0	0.0	0.0
057	7/30/2018	11:22:33	0.0	0.0	0.0	0.0
058	7/30/2018	11:23:33	0.0	0.0	0.0	0.0
059	7/30/2018	11:24:33	0.0	0.0	0.0	0.0
060	7/30/2018	11:25:33	0.0	0.0	0.0	0.0
061	7/30/2018	11:26:33	0.0	0.0	0.0	0.0
062	7/30/2018	11:27:33	0.0	0.0	0.0	0.0
063	7/30/2018	11:28:33	0.0	0.0	0.0	0.0
064	7/30/2018	11:29:33	0.0	0.0	0.0	0.0
065	7/30/2018	11:30:33	0.0	0.0	0.0	0.0
066	7/30/2018	11:31:33	0.0	0.0	0.0	0.0
067	7/30/2018	11:32:33	0.0	0.0	0.0	0.0
068	7/30/2018	11:33:33	0.0	0.0	0.0	0.0
069	7/30/2018	11:34:33	0.0	0.0	0.0	0.0
070	7/30/2018	11:35:33	0.0	0.0	0.0	0.0
071	7/30/2018	11:36:33	0.0	0.0	0.0	0.0
072	7/30/2018	11:37:33	0.0	0.0	0.0	0.0
073	7/30/2018	11:38:33	0.0	0.0	0.0	0.0
074	7/30/2018	11:39:33	0.0	0.0	0.0	0.0
075	7/30/2018	11:40:33	0.0	0.0	0.0	0.0
076	7/30/2018	11:41:33	0.0	0.0	0.0	0.0
077	7/30/2018	11:42:33	0.0	0.0	0.0	0.0
078	7/30/2018	11:43:33	0.0	0.0	0.0	0.0
079	7/30/2018	11:44:33	0.0	0.0	0.0	0.0
080	7/30/2018	11:45:33	0.0	0.0	0.0	0.0
081	7/30/2018	11:46:33	0.0	0.0	0.0	0.0
082	7/30/2018	11:47:33	0.0	0.0	0.0	0.0
083	7/30/2018	11:48:33	0.0	0.0	0.0	0.0
084	7/30/2018	11:49:33	0.0	0.0	0.0	0.0
085	7/30/2018	11:50:33	0.0	0.0	0.0	0.0
086	7/30/2018	11:51:33	0.0	0.0	0.0	0.0
087	7/30/2018	11:52:33	0.0	0.0	0.0	0.0
088	7/30/2018	11:53:33	0.0	0.0	0.0	0.0
089	7/30/2018	11:54:33	0.0	0.0	0.0	0.0
090	7/30/2018	11:55:33	0.0	0.0	0.0	0.0
091	7/30/2018	11:56:33	0.0	0.0	0.0	0.0
092	7/30/2018	11:57:33	0.0	0.0	0.0	0.0
093	7/30/2018	11:58:33	0.0	0.0	0.0	0.0
094	7/30/2018	11:59:33	0.0	0.0	0.0	0.0
095	7/30/2018	12:00:33	0.0	0.0	0.0	0.0
096	7/30/2018	12:01:33	0.0	0.0	0.0	0.0
097	7/30/2018	12:02:33	0.0	0.0	0.0	0.0
098	7/30/2018	12:03:33	0.0	0.0	0.0	0.0
099	7/30/2018	12:04:33	0.0	0.0	0.0	0.0
100	7/30/2018	12:05:33	0.0	0.0	0.0	0.0
101	7/30/2018	12:06:33	0.0	0.0	0.0	0.0
102	7/30/2018	12:07:33	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

103	7/30/2018	12:08:33	0.0	0.0	0.0	0.0
104	7/30/2018	12:09:33	0.0	0.0	0.0	0.0
105	7/30/2018	12:10:33	0.0	0.0	0.0	0.0
106	7/30/2018	12:11:33	0.0	0.0	0.0	0.0
107	7/30/2018	12:12:33	0.0	0.0	0.0	0.0
108	7/30/2018	12:13:33	0.0	0.0	0.0	0.0
109	7/30/2018	12:14:33	0.0	0.0	0.0	0.0
110	7/30/2018	12:15:33	0.0	0.0	0.0	0.0
111	7/30/2018	12:16:33	0.0	0.0	0.0	0.0
112	7/30/2018	12:17:33	0.0	0.0	0.0	0.0
113	7/30/2018	12:18:33	0.0	0.0	0.0	0.0
114	7/30/2018	12:19:33	0.0	0.0	0.0	0.0
115	7/30/2018	12:20:33	0.0	0.0	0.0	0.0
116	7/30/2018	12:21:33	0.0	0.0	0.0	0.0
117	7/30/2018	12:22:33	0.0	0.0	0.0	0.0
118	7/30/2018	12:23:33	0.0	0.0	0.0	0.0
119	7/30/2018	12:24:33	0.0	0.0	0.0	0.0
120	7/30/2018	12:25:33	0.0	0.0	0.0	0.0
121	7/30/2018	12:26:33	0.0	0.0	0.0	0.0
122	7/30/2018	12:27:33	0.0	0.0	0.0	0.0
123	7/30/2018	12:28:33	0.0	0.0	0.0	0.0
124	7/30/2018	12:29:33	0.0	0.0	0.0	0.0
125	7/30/2018	12:30:33	0.0	0.0	0.0	0.0
126	7/30/2018	12:31:33	0.0	0.0	0.0	0.0
127	7/30/2018	12:32:33	0.0	0.0	0.0	0.0
128	7/30/2018	12:33:33	0.0	0.0	0.0	0.0
129	7/30/2018	12:34:33	0.0	0.0	0.0	0.0
130	7/30/2018	12:35:33	0.0	0.0	0.0	0.0
131	7/30/2018	12:36:33	0.0	0.0	0.0	0.0
132	7/30/2018	12:37:33	0.0	0.0	0.0	0.0
133	7/30/2018	12:38:33	0.0	0.0	0.0	0.0
134	7/30/2018	12:39:33	0.0	0.0	0.0	0.0
135	7/30/2018	12:40:33	0.0	0.0	0.0	0.0
136	7/30/2018	12:41:33	0.0	0.0	0.0	0.0
137	7/30/2018	12:42:33	0.0	0.0	0.0	0.0
138	7/30/2018	12:43:33	0.0	0.0	0.0	0.0
139	7/30/2018	12:44:33	0.0	0.0	0.0	0.0
140	7/30/2018	12:45:33	0.0	0.0	0.0	0.0
141	7/30/2018	12:46:33	0.0	0.0	0.0	0.0
142	7/30/2018	12:47:33	0.0	0.0	0.0	0.0
143	7/30/2018	12:48:33	0.0	0.0	0.0	0.0
144	7/30/2018	12:49:33	0.0	0.0	0.0	0.0
145	7/30/2018	12:50:33	0.0	0.0	0.0	0.0
146	7/30/2018	12:51:33	0.0	0.0	0.0	0.0
147	7/30/2018	12:52:33	0.0	0.0	0.0	0.0
148	7/30/2018	12:53:33	0.0	0.0	0.0	0.0
149	7/30/2018	12:54:33	0.0	0.0	0.0	0.0
150	7/30/2018	12:55:33	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

151	7/30/2018	12:56:33	0.0	0.0	0.0	0.0
152	7/30/2018	12:57:33	0.0	0.0	0.0	0.0
153	7/30/2018	12:58:33	0.0	0.0	0.0	0.0
154	7/30/2018	12:59:33	0.0	0.0	0.0	0.0
155	7/30/2018	13:00:33	0.0	0.0	0.0	0.0
156	7/30/2018	13:01:33	0.0	0.0	0.0	0.0
157	7/30/2018	13:02:33	0.0	0.0	0.0	0.0
158	7/30/2018	13:03:33	0.0	0.0	0.0	0.0
159	7/30/2018	13:04:33	0.0	0.0	0.0	0.0
160	7/30/2018	13:05:33	0.0	0.0	0.0	0.0
161	7/30/2018	13:06:33	0.0	0.0	0.0	0.0
162	7/30/2018	13:07:33	0.0	0.0	0.0	0.0
163	7/30/2018	13:08:33	0.0	0.0	0.0	0.0
164	7/30/2018	13:09:33	0.0	0.0	0.0	0.0
165	7/30/2018	13:10:33	0.0	0.0	0.0	0.0
166	7/30/2018	13:11:33	0.0	0.0	0.0	0.0
167	7/30/2018	13:12:33	0.0	0.0	0.0	0.0
168	7/30/2018	13:13:33	0.0	0.0	0.0	0.0
169	7/30/2018	13:14:33	0.0	0.0	0.0	0.0
170	7/30/2018	13:15:33	0.0	0.0	0.0	0.0
171	7/30/2018	13:16:33	0.0	0.0	0.0	0.0
172	7/30/2018	13:17:33	0.0	0.0	0.0	0.0
173	7/30/2018	13:18:33	0.0	0.0	0.0	0.0
174	7/30/2018	13:19:33	0.0	0.0	0.0	0.0
175	7/30/2018	13:20:33	0.0	0.0	0.0	0.0
176	7/30/2018	13:21:33	0.0	0.0	0.0	0.0
177	7/30/2018	13:22:33	0.0	0.0	0.0	0.0
178	7/30/2018	13:23:33	0.0	0.0	0.0	0.0
179	7/30/2018	13:24:33	0.0	0.0	0.0	0.0
180	7/30/2018	13:25:33	0.0	0.0	0.0	0.0
181	7/30/2018	13:26:33	0.0	0.0	0.0	0.0
182	7/30/2018	13:27:33	0.0	0.0	0.0	0.0
183	7/30/2018	13:28:33	0.0	0.0	0.0	0.0
184	7/30/2018	13:29:33	0.0	0.0	0.0	0.0
185	7/30/2018	13:30:33	0.0	0.0	0.0	0.0
186	7/30/2018	13:31:33	0.0	0.0	0.0	0.0
187	7/30/2018	13:32:33	0.0	0.0	0.0	0.0
188	7/30/2018	13:33:33	0.0	0.0	0.0	0.0
189	7/30/2018	13:34:33	0.0	0.0	0.0	0.0
190	7/30/2018	13:35:33	0.0	0.0	0.0	0.0
191	7/30/2018	13:36:33	0.0	0.0	0.0	0.0
192	7/30/2018	13:37:33	0.0	0.0	0.0	0.0
193	7/30/2018	13:38:33	0.0	0.0	0.0	0.0
194	7/30/2018	13:39:33	0.0	0.0	0.0	0.0
195	7/30/2018	13:40:33	0.0	0.0	0.0	0.0
196	7/30/2018	13:41:33	0.0	0.0	0.0	0.0
197	7/30/2018	13:42:33	0.0	0.0	0.0	0.0
198	7/30/2018	13:43:33	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

199	7/30/2018	13:44:33	0.0	0.0	0.0	0.0
200	7/30/2018	13:45:33	0.0	0.0	0.0	0.0
201	7/30/2018	13:46:33	0.0	0.0	0.0	0.0
202	7/30/2018	13:47:33	0.0	0.0	0.0	0.0
203	7/30/2018	13:48:33	0.0	0.0	0.0	0.0
204	7/30/2018	13:49:33	0.0	0.0	0.0	0.0
205	7/30/2018	13:50:33	0.0	0.0	0.0	0.0
206	7/30/2018	13:51:33	0.0	0.0	0.0	0.0
207	7/30/2018	13:52:33	0.0	0.0	0.0	0.0
208	7/30/2018	13:53:33	0.0	0.0	0.0	0.0
209	7/30/2018	13:54:33	0.0	0.0	0.0	0.0
210	7/30/2018	13:55:33	0.0	0.0	0.0	0.0
211	7/30/2018	13:56:33	0.0	0.0	0.0	0.0
212	7/30/2018	13:57:33	0.0	0.0	0.0	0.0
213	7/30/2018	13:58:33	0.0	0.0	0.0	0.0
214	7/30/2018	13:59:33	0.0	0.0	0.0	0.0
215	7/30/2018	14:00:33	0.0	0.0	0.0	0.0
216	7/30/2018	14:01:33	0.0	0.0	0.0	0.0
217	7/30/2018	14:02:33	0.0	0.0	0.0	0.0
218	7/30/2018	14:03:33	0.0	0.0	0.0	0.0
219	7/30/2018	14:04:33	0.0	0.0	0.0	0.0
220	7/30/2018	14:05:33	0.0	0.0	0.0	0.0
221	7/30/2018	14:06:33	0.0	0.0	0.0	0.0
222	7/30/2018	14:07:33	0.0	0.0	0.0	0.0
223	7/30/2018	14:08:33	0.0	0.0	0.0	0.0
224	7/30/2018	14:09:33	0.0	0.0	0.0	0.0
225	7/30/2018	14:10:33	0.0	0.0	0.0	0.0
226	7/30/2018	14:11:33	0.0	0.0	0.0	0.0
227	7/30/2018	14:12:33	0.0	0.0	0.0	0.0
228	7/30/2018	14:13:33	0.0	0.0	0.0	0.0
229	7/30/2018	14:14:33	0.0	0.0	0.0	0.0
230	7/30/2018	14:15:33	0.0	0.0	0.0	0.0
231	7/30/2018	14:16:33	0.0	0.0	0.0	0.0
232	7/30/2018	14:17:33	0.0	0.0	0.0	0.0
233	7/30/2018	14:18:33	0.0	0.0	0.0	0.0
234	7/30/2018	14:19:33	0.0	0.0	0.0	0.0
235	7/30/2018	14:20:33	0.0	0.0	0.0	0.0
236	7/30/2018	14:21:33	0.0	0.0	0.0	0.0
237	7/30/2018	14:22:33	0.0	0.0	0.0	0.0
238	7/30/2018	14:23:33	0.0	0.0	0.0	0.0
239	7/30/2018	14:24:33	0.0	0.0	0.0	0.0
240	7/30/2018	14:25:33	0.0	0.0	0.0	0.0
241	7/30/2018	14:26:33	0.0	0.0	0.0	0.0
242	7/30/2018	14:27:33	0.0	0.0	0.0	0.0
243	7/30/2018	14:28:33	0.0	0.0	0.0	0.0
244	7/30/2018	14:29:33	0.0	0.0	0.0	0.0
245	7/30/2018	14:30:33	0.0	0.0	0.0	0.0
246	7/30/2018	14:31:33	0.0	0.0	0.0	0.0

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247	7/30/2018	14:32:33	0.0	0.0	0.0	0.0
248	7/30/2018	14:33:33	0.0	0.0	0.0	0.0
249	7/30/2018	14:34:33	0.0	0.0	0.0	0.0
250	7/30/2018	14:35:33	0.0	0.0	0.0	0.0
251	7/30/2018	14:36:33	0.0	0.0	0.0	0.0
252	7/30/2018	14:37:33	0.0	0.0	0.0	0.0
253	7/30/2018	14:38:33	0.0	0.0	0.0	0.0
254	7/30/2018	14:39:33	0.0	0.0	0.0	0.0
255	7/30/2018	14:40:33	0.0	0.0	0.0	0.0
256	7/30/2018	14:41:33	0.0	0.0	0.0	0.0
257	7/30/2018	14:42:33	0.0	0.0	0.0	0.0
258	7/30/2018	14:43:33	0.0	0.0	0.0	0.0
259	7/30/2018	14:44:33	0.0	0.0	0.0	0.0
260	7/30/2018	14:45:33	0.0	0.0	0.0	0.0
261	7/30/2018	14:46:33	0.0	0.0	0.0	0.0
262	7/30/2018	14:47:33	0.0	0.0	0.0	0.0
263	7/30/2018	14:48:33	0.0	0.0	0.0	0.0
264	7/30/2018	14:49:33	0.0	0.0	0.0	0.0
265	7/30/2018	14:50:33	0.0	0.0	0.0	0.0
266	7/30/2018	14:51:33	0.0	0.0	0.0	0.0
267	7/30/2018	14:52:33	0.0	0.0	0.0	0.0
268	7/30/2018	14:53:33	0.0	0.0	0.0	0.0
269	7/30/2018	14:54:33	0.0	0.0	0.0	0.0
270	7/30/2018	14:55:33	0.0	0.0	0.0	0.0
271	7/30/2018	14:56:33	0.0	0.0	0.0	0.0
272	7/30/2018	14:57:33	0.0	0.0	0.0	0.0
273	7/30/2018	14:58:33	0.0	0.0	0.0	0.0
274	7/30/2018	14:59:33	0.0	0.0	0.0	0.0
275	7/30/2018	15:00:33	0.0	0.0	0.0	0.0
276	7/30/2018	15:01:33	0.0	0.0	0.0	0.0
277	7/30/2018	15:02:33	0.0	0.0	0.0	0.0
278	7/30/2018	15:03:33	0.0	0.0	0.0	0.0
279	7/30/2018	15:04:33	0.0	0.0	0.0	0.0
280	7/30/2018	15:05:33	0.0	0.0	0.0	0.0
281	7/30/2018	15:06:33	0.0	0.0	0.0	0.0
282	7/30/2018	15:07:33	0.0	0.0	0.0	0.0
283	7/30/2018	15:08:33	0.0	0.0	0.0	0.0
284	7/30/2018	15:09:33	0.0	0.0	0.0	0.0
285	7/30/2018	15:10:33	0.0	0.0	0.0	0.0
286	7/30/2018	15:11:33	0.0	0.0	0.0	0.0
287	7/30/2018	15:12:33	0.0	0.0	0.0	0.0
288	7/30/2018	15:13:33	0.0	0.0	0.0	0.0
289	7/30/2018	15:14:33	0.0	0.0	0.0	0.0
290	7/30/2018	15:15:33	0.0	0.0	0.0	0.0
291	7/30/2018	15:16:33	0.0	0.0	0.0	0.0
292	7/30/2018	15:17:33	0.0	0.0	0.0	0.0
293	7/30/2018	15:18:33	0.0	0.0	0.0	0.0
294	7/30/2018	15:19:33	0.0	0.0	0.0	0.0

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295	7/30/2018	15:20:33	0.0	0.0	0.0	0.0
296	7/30/2018	15:21:33	0.0	0.0	0.0	0.0
297	7/30/2018	15:22:33	0.0	0.0	0.0	0.0
298	7/30/2018	15:23:33	0.0	0.0	0.0	0.0
Peak		0.0	0.0	0.0	0.0	
Min		0.0	0.0	0.0	0.0	
Average		0.0	0.0	0.0	0.0	

TWA/STEL

Index	Date/Time	PID(ppm) (TWA)	PID(ppm) (STEL)
001	7/30/2018 10:26:33	0.0	---
002	7/30/2018 10:27:33	0.0	---
003	7/30/2018 10:28:33	0.0	---
004	7/30/2018 10:29:33	0.0	---
005	7/30/2018 10:30:33	0.0	---
006	7/30/2018 10:31:33	0.0	---
007	7/30/2018 10:32:33	0.0	---
008	7/30/2018 10:33:33	0.0	---
009	7/30/2018 10:34:33	0.0	---
010	7/30/2018 10:35:33	0.0	---
011	7/30/2018 10:36:33	0.0	---
012	7/30/2018 10:37:33	0.0	---
013	7/30/2018 10:38:33	0.0	---
014	7/30/2018 10:39:33	0.0	---
015	7/30/2018 10:40:33	0.0	0.0
016	7/30/2018 10:41:33	0.0	0.0
017	7/30/2018 10:42:33	0.0	0.0
018	7/30/2018 10:43:33	0.0	0.0
019	7/30/2018 10:44:33	0.0	0.0
020	7/30/2018 10:45:33	0.0	0.0
021	7/30/2018 10:46:33	0.0	0.0
022	7/30/2018 10:47:33	0.0	0.0
023	7/30/2018 10:48:33	0.0	0.0
024	7/30/2018 10:49:33	0.0	0.0
025	7/30/2018 10:50:33	0.0	0.0
026	7/30/2018 10:51:33	0.0	0.0
027	7/30/2018 10:52:33	0.0	0.0
028	7/30/2018 10:53:33	0.0	0.0
029	7/30/2018 10:54:33	0.0	0.0
030	7/30/2018 10:55:33	0.0	0.0
031	7/30/2018 10:56:33	0.0	0.0
032	7/30/2018 10:57:33	0.0	0.0
033	7/30/2018 10:58:33	0.0	0.0
034	7/30/2018 10:59:33	0.0	0.0
035	7/30/2018 11:00:33	0.0	0.0
036	7/30/2018 11:01:33	0.0	0.0

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037	7/30/2018	11:02:33	0.0	0.0
038	7/30/2018	11:03:33	0.0	0.0
039	7/30/2018	11:04:33	0.0	0.0
040	7/30/2018	11:05:33	0.0	0.0
041	7/30/2018	11:06:33	0.0	0.0
042	7/30/2018	11:07:33	0.0	0.0
043	7/30/2018	11:08:33	0.0	0.0
044	7/30/2018	11:09:33	0.0	0.0
045	7/30/2018	11:10:33	0.0	0.0
046	7/30/2018	11:11:33	0.0	0.0
047	7/30/2018	11:12:33	0.0	0.0
048	7/30/2018	11:13:33	0.0	0.0
049	7/30/2018	11:14:33	0.0	0.0
050	7/30/2018	11:15:33	0.0	0.0
051	7/30/2018	11:16:33	0.0	0.0
052	7/30/2018	11:17:33	0.0	0.0
053	7/30/2018	11:18:33	0.0	0.0
054	7/30/2018	11:19:33	0.0	0.0
055	7/30/2018	11:20:33	0.0	0.0
056	7/30/2018	11:21:33	0.0	0.0
057	7/30/2018	11:22:33	0.0	0.0
058	7/30/2018	11:23:33	0.0	0.0
059	7/30/2018	11:24:33	0.0	0.0
060	7/30/2018	11:25:33	0.0	0.0
061	7/30/2018	11:26:33	0.0	0.0
062	7/30/2018	11:27:33	0.0	0.0
063	7/30/2018	11:28:33	0.0	0.0
064	7/30/2018	11:29:33	0.0	0.0
065	7/30/2018	11:30:33	0.0	0.0
066	7/30/2018	11:31:33	0.0	0.0
067	7/30/2018	11:32:33	0.0	0.0
068	7/30/2018	11:33:33	0.0	0.0
069	7/30/2018	11:34:33	0.0	0.0
070	7/30/2018	11:35:33	0.0	0.0
071	7/30/2018	11:36:33	0.0	0.0
072	7/30/2018	11:37:33	0.0	0.0
073	7/30/2018	11:38:33	0.0	0.0
074	7/30/2018	11:39:33	0.0	0.0
075	7/30/2018	11:40:33	0.0	0.0
076	7/30/2018	11:41:33	0.0	0.0
077	7/30/2018	11:42:33	0.0	0.0
078	7/30/2018	11:43:33	0.0	0.0
079	7/30/2018	11:44:33	0.0	0.0
080	7/30/2018	11:45:33	0.0	0.0
081	7/30/2018	11:46:33	0.0	0.0
082	7/30/2018	11:47:33	0.0	0.0
083	7/30/2018	11:48:33	0.0	0.0
084	7/30/2018	11:49:33	0.0	0.0

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085	7/30/2018	11:50:33	0.0	0.0
086	7/30/2018	11:51:33	0.0	0.0
087	7/30/2018	11:52:33	0.0	0.0
088	7/30/2018	11:53:33	0.0	0.0
089	7/30/2018	11:54:33	0.0	0.0
090	7/30/2018	11:55:33	0.0	0.0
091	7/30/2018	11:56:33	0.0	0.0
092	7/30/2018	11:57:33	0.0	0.0
093	7/30/2018	11:58:33	0.0	0.0
094	7/30/2018	11:59:33	0.0	0.0
095	7/30/2018	12:00:33	0.0	0.0
096	7/30/2018	12:01:33	0.0	0.0
097	7/30/2018	12:02:33	0.0	0.0
098	7/30/2018	12:03:33	0.0	0.0
099	7/30/2018	12:04:33	0.0	0.0
100	7/30/2018	12:05:33	0.0	0.0
101	7/30/2018	12:06:33	0.0	0.0
102	7/30/2018	12:07:33	0.0	0.0
103	7/30/2018	12:08:33	0.0	0.0
104	7/30/2018	12:09:33	0.0	0.0
105	7/30/2018	12:10:33	0.0	0.0
106	7/30/2018	12:11:33	0.0	0.0
107	7/30/2018	12:12:33	0.0	0.0
108	7/30/2018	12:13:33	0.0	0.0
109	7/30/2018	12:14:33	0.0	0.0
110	7/30/2018	12:15:33	0.0	0.0
111	7/30/2018	12:16:33	0.0	0.0
112	7/30/2018	12:17:33	0.0	0.0
113	7/30/2018	12:18:33	0.0	0.0
114	7/30/2018	12:19:33	0.0	0.0
115	7/30/2018	12:20:33	0.0	0.0
116	7/30/2018	12:21:33	0.0	0.0
117	7/30/2018	12:22:33	0.0	0.0
118	7/30/2018	12:23:33	0.0	0.0
119	7/30/2018	12:24:33	0.0	0.0
120	7/30/2018	12:25:33	0.0	0.0
121	7/30/2018	12:26:33	0.0	0.0
122	7/30/2018	12:27:33	0.0	0.0
123	7/30/2018	12:28:33	0.0	0.0
124	7/30/2018	12:29:33	0.0	0.0
125	7/30/2018	12:30:33	0.0	0.0
126	7/30/2018	12:31:33	0.0	0.0
127	7/30/2018	12:32:33	0.0	0.0
128	7/30/2018	12:33:33	0.0	0.0
129	7/30/2018	12:34:33	0.0	0.0
130	7/30/2018	12:35:33	0.0	0.0
131	7/30/2018	12:36:33	0.0	0.0
132	7/30/2018	12:37:33	0.0	0.0

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133	7/30/2018	12:38:33	0.0	0.0
134	7/30/2018	12:39:33	0.0	0.0
135	7/30/2018	12:40:33	0.0	0.0
136	7/30/2018	12:41:33	0.0	0.0
137	7/30/2018	12:42:33	0.0	0.0
138	7/30/2018	12:43:33	0.0	0.0
139	7/30/2018	12:44:33	0.0	0.0
140	7/30/2018	12:45:33	0.0	0.0
141	7/30/2018	12:46:33	0.0	0.0
142	7/30/2018	12:47:33	0.0	0.0
143	7/30/2018	12:48:33	0.0	0.0
144	7/30/2018	12:49:33	0.0	0.0
145	7/30/2018	12:50:33	0.0	0.0
146	7/30/2018	12:51:33	0.0	0.0
147	7/30/2018	12:52:33	0.0	0.0
148	7/30/2018	12:53:33	0.0	0.0
149	7/30/2018	12:54:33	0.0	0.0
150	7/30/2018	12:55:33	0.0	0.0
151	7/30/2018	12:56:33	0.0	0.0
152	7/30/2018	12:57:33	0.0	0.0
153	7/30/2018	12:58:33	0.0	0.0
154	7/30/2018	12:59:33	0.0	0.0
155	7/30/2018	13:00:33	0.0	0.0
156	7/30/2018	13:01:33	0.0	0.0
157	7/30/2018	13:02:33	0.0	0.0
158	7/30/2018	13:03:33	0.0	0.0
159	7/30/2018	13:04:33	0.0	0.0
160	7/30/2018	13:05:33	0.0	0.0
161	7/30/2018	13:06:33	0.0	0.0
162	7/30/2018	13:07:33	0.0	0.0
163	7/30/2018	13:08:33	0.0	0.0
164	7/30/2018	13:09:33	0.0	0.0
165	7/30/2018	13:10:33	0.0	0.0
166	7/30/2018	13:11:33	0.0	0.0
167	7/30/2018	13:12:33	0.0	0.0
168	7/30/2018	13:13:33	0.0	0.0
169	7/30/2018	13:14:33	0.0	0.0
170	7/30/2018	13:15:33	0.0	0.0
171	7/30/2018	13:16:33	0.0	0.0
172	7/30/2018	13:17:33	0.0	0.0
173	7/30/2018	13:18:33	0.0	0.0
174	7/30/2018	13:19:33	0.0	0.0
175	7/30/2018	13:20:33	0.0	0.0
176	7/30/2018	13:21:33	0.0	0.0
177	7/30/2018	13:22:33	0.0	0.0
178	7/30/2018	13:23:33	0.0	0.0
179	7/30/2018	13:24:33	0.0	0.0
180	7/30/2018	13:25:33	0.0	0.0

181	7/30/2018	13:26:33	0.0	0.0
182	7/30/2018	13:27:33	0.0	0.0
183	7/30/2018	13:28:33	0.0	0.0
184	7/30/2018	13:29:33	0.0	0.0
185	7/30/2018	13:30:33	0.0	0.0
186	7/30/2018	13:31:33	0.0	0.0
187	7/30/2018	13:32:33	0.0	0.0
188	7/30/2018	13:33:33	0.0	0.0
189	7/30/2018	13:34:33	0.0	0.0
190	7/30/2018	13:35:33	0.0	0.0
191	7/30/2018	13:36:33	0.0	0.0
192	7/30/2018	13:37:33	0.0	0.0
193	7/30/2018	13:38:33	0.0	0.0
194	7/30/2018	13:39:33	0.0	0.0
195	7/30/2018	13:40:33	0.0	0.0
196	7/30/2018	13:41:33	0.0	0.0
197	7/30/2018	13:42:33	0.0	0.0
198	7/30/2018	13:43:33	0.0	0.0
199	7/30/2018	13:44:33	0.0	0.0
200	7/30/2018	13:45:33	0.0	0.0
201	7/30/2018	13:46:33	0.0	0.0
202	7/30/2018	13:47:33	0.0	0.0
203	7/30/2018	13:48:33	0.0	0.0
204	7/30/2018	13:49:33	0.0	0.0
205	7/30/2018	13:50:33	0.0	0.0
206	7/30/2018	13:51:33	0.0	0.0
207	7/30/2018	13:52:33	0.0	0.0
208	7/30/2018	13:53:33	0.0	0.0
209	7/30/2018	13:54:33	0.0	0.0
210	7/30/2018	13:55:33	0.0	0.0
211	7/30/2018	13:56:33	0.0	0.0
212	7/30/2018	13:57:33	0.0	0.0
213	7/30/2018	13:58:33	0.0	0.0
214	7/30/2018	13:59:33	0.0	0.0
215	7/30/2018	14:00:33	0.0	0.0
216	7/30/2018	14:01:33	0.0	0.0
217	7/30/2018	14:02:33	0.0	0.0
218	7/30/2018	14:03:33	0.0	0.0
219	7/30/2018	14:04:33	0.0	0.0
220	7/30/2018	14:05:33	0.0	0.0
221	7/30/2018	14:06:33	0.0	0.0
222	7/30/2018	14:07:33	0.0	0.0
223	7/30/2018	14:08:33	0.0	0.0
224	7/30/2018	14:09:33	0.0	0.0
225	7/30/2018	14:10:33	0.0	0.0
226	7/30/2018	14:11:33	0.0	0.0
227	7/30/2018	14:12:33	0.0	0.0
228	7/30/2018	14:13:33	0.0	0.0

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229	7/30/2018	14:14:33	0.0	0.0
230	7/30/2018	14:15:33	0.0	0.0
231	7/30/2018	14:16:33	0.0	0.0
232	7/30/2018	14:17:33	0.0	0.0
233	7/30/2018	14:18:33	0.0	0.0
234	7/30/2018	14:19:33	0.0	0.0
235	7/30/2018	14:20:33	0.0	0.0
236	7/30/2018	14:21:33	0.0	0.0
237	7/30/2018	14:22:33	0.0	0.0
238	7/30/2018	14:23:33	0.0	0.0
239	7/30/2018	14:24:33	0.0	0.0
240	7/30/2018	14:25:33	0.0	0.0
241	7/30/2018	14:26:33	0.0	0.0
242	7/30/2018	14:27:33	0.0	0.0
243	7/30/2018	14:28:33	0.0	0.0
244	7/30/2018	14:29:33	0.0	0.0
245	7/30/2018	14:30:33	0.0	0.0
246	7/30/2018	14:31:33	0.0	0.0
247	7/30/2018	14:32:33	0.0	0.0
248	7/30/2018	14:33:33	0.0	0.0
249	7/30/2018	14:34:33	0.0	0.0
250	7/30/2018	14:35:33	0.0	0.0
251	7/30/2018	14:36:33	0.0	0.0
252	7/30/2018	14:37:33	0.0	0.0
253	7/30/2018	14:38:33	0.0	0.0
254	7/30/2018	14:39:33	0.0	0.0
255	7/30/2018	14:40:33	0.0	0.0
256	7/30/2018	14:41:33	0.0	0.0
257	7/30/2018	14:42:33	0.0	0.0
258	7/30/2018	14:43:33	0.0	0.0
259	7/30/2018	14:44:33	0.0	0.0
260	7/30/2018	14:45:33	0.0	0.0
261	7/30/2018	14:46:33	0.0	0.0
262	7/30/2018	14:47:33	0.0	0.0
263	7/30/2018	14:48:33	0.0	0.0
264	7/30/2018	14:49:33	0.0	0.0
265	7/30/2018	14:50:33	0.0	0.0
266	7/30/2018	14:51:33	0.0	0.0
267	7/30/2018	14:52:33	0.0	0.0
268	7/30/2018	14:53:33	0.0	0.0
269	7/30/2018	14:54:33	0.0	0.0
270	7/30/2018	14:55:33	0.0	0.0
271	7/30/2018	14:56:33	0.0	0.0
272	7/30/2018	14:57:33	0.0	0.0
273	7/30/2018	14:58:33	0.0	0.0
274	7/30/2018	14:59:33	0.0	0.0
275	7/30/2018	15:00:33	0.0	0.0
276	7/30/2018	15:01:33	0.0	0.0

PRS_EXPORT_20181119.txt38160

277	7/30/2018	15:02:33	0.0	0.0
278	7/30/2018	15:03:33	0.0	0.0
279	7/30/2018	15:04:33	0.0	0.0
280	7/30/2018	15:05:33	0.0	0.0
281	7/30/2018	15:06:33	0.0	0.0
282	7/30/2018	15:07:33	0.0	0.0
283	7/30/2018	15:08:33	0.0	0.0
284	7/30/2018	15:09:33	0.0	0.0
285	7/30/2018	15:10:33	0.0	0.0
286	7/30/2018	15:11:33	0.0	0.0
287	7/30/2018	15:12:33	0.0	0.0
288	7/30/2018	15:13:33	0.0	0.0
289	7/30/2018	15:14:33	0.0	0.0
290	7/30/2018	15:15:33	0.0	0.0
291	7/30/2018	15:16:33	0.0	0.0
292	7/30/2018	15:17:33	0.0	0.0
293	7/30/2018	15:18:33	0.0	0.0
294	7/30/2018	15:19:33	0.0	0.0
295	7/30/2018	15:20:33	0.0	0.0
296	7/30/2018	15:21:33	0.0	0.0
297	7/30/2018	15:22:33	0.0	0.0
298	7/30/2018	15:23:33	0.0	0.0

18/07/31 09:36

Summary

Unit Name MiniRAE 3000(PGM-7320)
Unit SN 592-919975
Unit Firmware Ver V2.14

Running Mode Hygiene Mode
Datalog Mode Manual
Diagnostic Mode No
Stop Reason Power Down

Site ID RAE00000
User ID UW000000

Begin 7/31/2018 09:36:32
End 7/31/2018 14:39:24
Sample Period(s) 60
Number of Records 302

Sensor PID(ppm)
Sensor SN S023030116U2
Measure Type Min; Avg; Max; Real
Span 100.0

Span 2 1000.0
Low Alarm 50.0
High Alarm 100.0
Over Alarm 15000.0
STEL Alarm 25.0
TWA Alarm 10.0

Measurement Gas Isobutylene
Calibration Time 7/31/2018 08:20
Peak 0.0
Min 0.0
Average 0.0

Datalog

Index	Date/Time	PID(ppm) (Min)	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)	PID(ppm)
001	7/31/2018 09:37:32	0.0	0.0	0.0	0.0	0.0
002	7/31/2018 09:38:32	0.0	0.0	0.0	0.0	0.0
003	7/31/2018 09:39:32	0.0	0.0	0.0	0.0	0.0
004	7/31/2018 09:40:32	0.0	0.0	0.0	0.0	0.0
005	7/31/2018 09:41:32	0.0	0.0	0.0	0.0	0.0
006	7/31/2018 09:42:32	0.0	0.0	0.0	0.0	0.0
007	7/31/2018 09:43:32	0.0	0.0	0.0	0.0	0.0
008	7/31/2018 09:44:32	0.0	0.0	0.0	0.0	0.0
009	7/31/2018 09:45:32	0.0	0.0	0.0	0.0	0.0
010	7/31/2018 09:46:32	0.0	0.0	0.0	0.0	0.0
011	7/31/2018 09:47:32	0.0	0.0	0.0	0.0	0.0
012	7/31/2018 09:48:32	0.0	0.0	0.0	0.0	0.0
013	7/31/2018 09:49:32	0.0	0.0	0.0	0.0	0.0
014	7/31/2018 09:50:32	0.0	0.0	0.0	0.0	0.0
015	7/31/2018 09:51:32	0.0	0.0	0.0	0.0	0.0
016	7/31/2018 09:52:32	0.0	0.0	0.0	0.0	0.0
017	7/31/2018 09:53:32	0.0	0.0	0.0	0.0	0.0
018	7/31/2018 09:54:32	0.0	0.0	0.0	0.0	0.0
019	7/31/2018 09:55:32	0.0	0.0	0.0	0.0	0.0
020	7/31/2018 09:56:32	0.0	0.0	0.0	0.0	0.0
021	7/31/2018 09:57:32	0.0	0.0	0.0	0.0	0.0
022	7/31/2018 09:58:32	0.0	0.0	0.0	0.0	0.0
023	7/31/2018 09:59:32	0.0	0.0	0.0	0.0	0.0
024	7/31/2018 10:00:32	0.0	0.0	0.0	0.0	0.0
025	7/31/2018 10:01:32	0.0	0.0	0.0	0.0	0.0
026	7/31/2018 10:02:32	0.0	0.0	0.0	0.0	0.0
027	7/31/2018 10:03:32	0.0	0.0	0.0	0.0	0.0
028	7/31/2018 10:04:32	0.0	0.0	0.0	0.0	0.0
029	7/31/2018 10:05:32	0.0	0.0	0.0	0.0	0.0
030	7/31/2018 10:06:32	0.0	0.0	0.0	0.0	0.0
031	7/31/2018 10:07:32	0.0	0.0	0.0	0.0	0.0
032	7/31/2018 10:08:32	0.0	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

033	7/31/2018	10:09:32	0.0	0.0	0.0	0.0
034	7/31/2018	10:10:32	0.0	0.0	0.0	0.0
035	7/31/2018	10:11:32	0.0	0.0	0.0	0.0
036	7/31/2018	10:12:32	0.0	0.0	0.0	0.0
037	7/31/2018	10:13:32	0.0	0.0	0.0	0.0
038	7/31/2018	10:14:32	0.0	0.0	0.0	0.0
039	7/31/2018	10:15:32	0.0	0.0	0.0	0.0
040	7/31/2018	10:16:32	0.0	0.0	0.0	0.0
041	7/31/2018	10:17:32	0.0	0.0	0.0	0.0
042	7/31/2018	10:18:32	0.0	0.0	0.0	0.0
043	7/31/2018	10:19:32	0.0	0.0	0.0	0.0
044	7/31/2018	10:20:32	0.0	0.0	0.0	0.0
045	7/31/2018	10:21:32	0.0	0.0	0.0	0.0
046	7/31/2018	10:22:32	0.0	0.0	0.0	0.0
047	7/31/2018	10:23:32	0.0	0.0	0.0	0.0
048	7/31/2018	10:24:32	0.0	0.0	0.0	0.0
049	7/31/2018	10:25:32	0.0	0.0	0.0	0.0
050	7/31/2018	10:26:32	0.0	0.0	0.0	0.0
051	7/31/2018	10:27:32	0.0	0.0	0.0	0.0
052	7/31/2018	10:28:32	0.0	0.0	0.0	0.0
053	7/31/2018	10:29:32	0.0	0.0	0.0	0.0
054	7/31/2018	10:30:32	0.0	0.0	0.0	0.0
055	7/31/2018	10:31:32	0.0	0.0	0.0	0.0
056	7/31/2018	10:32:32	0.0	0.0	0.0	0.0
057	7/31/2018	10:33:32	0.0	0.0	0.0	0.0
058	7/31/2018	10:34:32	0.0	0.0	0.0	0.0
059	7/31/2018	10:35:32	0.0	0.0	0.0	0.0
060	7/31/2018	10:36:32	0.0	0.0	0.0	0.0
061	7/31/2018	10:37:32	0.0	0.0	0.0	0.0
062	7/31/2018	10:38:32	0.0	0.0	0.0	0.0
063	7/31/2018	10:39:32	0.0	0.0	0.0	0.0
064	7/31/2018	10:40:32	0.0	0.0	0.0	0.0
065	7/31/2018	10:41:32	0.0	0.0	0.0	0.0
066	7/31/2018	10:42:32	0.0	0.0	0.0	0.0
067	7/31/2018	10:43:32	0.0	0.0	0.0	0.0
068	7/31/2018	10:44:32	0.0	0.0	0.0	0.0
069	7/31/2018	10:45:32	0.0	0.0	0.0	0.0
070	7/31/2018	10:46:32	0.0	0.0	0.0	0.0
071	7/31/2018	10:47:32	0.0	0.0	0.0	0.0
072	7/31/2018	10:48:32	0.0	0.0	0.0	0.0
073	7/31/2018	10:49:32	0.0	0.0	0.0	0.0
074	7/31/2018	10:50:32	0.0	0.0	0.0	0.0
075	7/31/2018	10:51:32	0.0	0.0	0.0	0.0
076	7/31/2018	10:52:32	0.0	0.0	0.0	0.0
077	7/31/2018	10:53:32	0.0	0.0	0.0	0.0
078	7/31/2018	10:54:32	0.0	0.0	0.0	0.0
079	7/31/2018	10:55:32	0.0	0.0	0.0	0.0
080	7/31/2018	10:56:32	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

081	7/31/2018	10:57:32	0.0	0.0	0.0	0.0
082	7/31/2018	10:58:32	0.0	0.0	0.0	0.0
083	7/31/2018	10:59:32	0.0	0.0	0.0	0.0
084	7/31/2018	11:00:32	0.0	0.0	0.0	0.0
085	7/31/2018	11:01:32	0.0	0.0	0.0	0.0
086	7/31/2018	11:02:32	0.0	0.0	0.0	0.0
087	7/31/2018	11:03:32	0.0	0.0	0.0	0.0
088	7/31/2018	11:04:32	0.0	0.0	0.0	0.0
089	7/31/2018	11:05:32	0.0	0.0	0.0	0.0
090	7/31/2018	11:06:32	0.0	0.0	0.0	0.0
091	7/31/2018	11:07:32	0.0	0.0	0.0	0.0
092	7/31/2018	11:08:32	0.0	0.0	0.0	0.0
093	7/31/2018	11:09:32	0.0	0.0	0.0	0.0
094	7/31/2018	11:10:32	0.0	0.0	0.0	0.0
095	7/31/2018	11:11:32	0.0	0.0	0.0	0.0
096	7/31/2018	11:12:32	0.0	0.0	0.0	0.0
097	7/31/2018	11:13:32	0.0	0.0	0.0	0.0
098	7/31/2018	11:14:32	0.0	0.0	0.0	0.0
099	7/31/2018	11:15:32	0.0	0.0	0.0	0.0
100	7/31/2018	11:16:32	0.0	0.0	0.0	0.0
101	7/31/2018	11:17:32	0.0	0.0	0.0	0.0
102	7/31/2018	11:18:32	0.0	0.0	0.0	0.0
103	7/31/2018	11:19:32	0.0	0.0	0.0	0.0
104	7/31/2018	11:20:32	0.0	0.0	0.0	0.0
105	7/31/2018	11:21:32	0.0	0.0	0.0	0.0
106	7/31/2018	11:22:32	0.0	0.0	0.0	0.0
107	7/31/2018	11:23:32	0.0	0.0	0.0	0.0
108	7/31/2018	11:24:32	0.0	0.0	0.0	0.0
109	7/31/2018	11:25:32	0.0	0.0	0.0	0.0
110	7/31/2018	11:26:32	0.0	0.0	0.0	0.0
111	7/31/2018	11:27:32	0.0	0.0	0.0	0.0
112	7/31/2018	11:28:32	0.0	0.0	0.0	0.0
113	7/31/2018	11:29:32	0.0	0.0	0.0	0.0
114	7/31/2018	11:30:32	0.0	0.0	0.0	0.0
115	7/31/2018	11:31:32	0.0	0.0	0.0	0.0
116	7/31/2018	11:32:32	0.0	0.0	0.0	0.0
117	7/31/2018	11:33:32	0.0	0.0	0.0	0.0
118	7/31/2018	11:34:32	0.0	0.0	0.0	0.0
119	7/31/2018	11:35:32	0.0	0.0	0.0	0.0
120	7/31/2018	11:36:32	0.0	0.0	0.0	0.0
121	7/31/2018	11:37:32	0.0	0.0	0.0	0.0
122	7/31/2018	11:38:32	0.0	0.0	0.0	0.0
123	7/31/2018	11:39:32	0.0	0.0	0.0	0.0
124	7/31/2018	11:40:32	0.0	0.0	0.0	0.0
125	7/31/2018	11:41:32	0.0	0.0	0.0	0.0
126	7/31/2018	11:42:32	0.0	0.0	0.0	0.0
127	7/31/2018	11:43:32	0.0	0.0	0.0	0.0
128	7/31/2018	11:44:32	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

129	7/31/2018	11:45:32	0.0	0.0	0.0	0.0
130	7/31/2018	11:46:32	0.0	0.0	0.0	0.0
131	7/31/2018	11:47:32	0.0	0.0	0.0	0.0
132	7/31/2018	11:48:32	0.0	0.0	0.0	0.0
133	7/31/2018	11:49:32	0.0	0.0	0.0	0.0
134	7/31/2018	11:50:32	0.0	0.0	0.0	0.0
135	7/31/2018	11:51:32	0.0	0.0	0.0	0.0
136	7/31/2018	11:52:32	0.0	0.0	0.0	0.0
137	7/31/2018	11:53:32	0.0	0.0	0.0	0.0
138	7/31/2018	11:54:32	0.0	0.0	0.0	0.0
139	7/31/2018	11:55:32	0.0	0.0	0.0	0.0
140	7/31/2018	11:56:32	0.0	0.0	0.0	0.0
141	7/31/2018	11:57:32	0.0	0.0	0.0	0.0
142	7/31/2018	11:58:32	0.0	0.0	0.0	0.0
143	7/31/2018	11:59:32	0.0	0.0	0.0	0.0
144	7/31/2018	12:00:32	0.0	0.0	0.0	0.0
145	7/31/2018	12:01:32	0.0	0.0	0.0	0.0
146	7/31/2018	12:02:32	0.0	0.0	0.0	0.0
147	7/31/2018	12:03:32	0.0	0.0	0.0	0.0
148	7/31/2018	12:04:32	0.0	0.0	0.0	0.0
149	7/31/2018	12:05:32	0.0	0.0	0.0	0.0
150	7/31/2018	12:06:32	0.0	0.0	0.0	0.0
151	7/31/2018	12:07:32	0.0	0.0	0.0	0.0
152	7/31/2018	12:08:32	0.0	0.0	0.0	0.0
153	7/31/2018	12:09:32	0.0	0.0	0.0	0.0
154	7/31/2018	12:10:32	0.0	0.0	0.0	0.0
155	7/31/2018	12:11:32	0.0	0.0	0.0	0.0
156	7/31/2018	12:12:32	0.0	0.0	0.0	0.0
157	7/31/2018	12:13:32	0.0	0.0	0.0	0.0
158	7/31/2018	12:14:32	0.0	0.0	0.0	0.0
159	7/31/2018	12:15:32	0.0	0.0	0.0	0.0
160	7/31/2018	12:16:32	0.0	0.0	0.0	0.0
161	7/31/2018	12:17:32	0.0	0.0	0.0	0.0
162	7/31/2018	12:18:32	0.0	0.0	0.0	0.0
163	7/31/2018	12:19:32	0.0	0.0	0.0	0.0
164	7/31/2018	12:20:32	0.0	0.0	0.0	0.0
165	7/31/2018	12:21:32	0.0	0.0	0.0	0.0
166	7/31/2018	12:22:32	0.0	0.0	0.0	0.0
167	7/31/2018	12:23:32	0.0	0.0	0.0	0.0
168	7/31/2018	12:24:32	0.0	0.0	0.0	0.0
169	7/31/2018	12:25:32	0.0	0.0	0.0	0.0
170	7/31/2018	12:26:32	0.0	0.0	0.0	0.0
171	7/31/2018	12:27:32	0.0	0.0	0.0	0.0
172	7/31/2018	12:28:32	0.0	0.0	0.0	0.0
173	7/31/2018	12:29:32	0.0	0.0	0.0	0.0
174	7/31/2018	12:30:32	0.0	0.0	0.0	0.0
175	7/31/2018	12:31:32	0.0	0.0	0.0	0.0
176	7/31/2018	12:32:32	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

177	7/31/2018	12:33:32	0.0	0.0	0.0	0.0
178	7/31/2018	12:34:32	0.0	0.0	0.0	0.0
179	7/31/2018	12:35:32	0.0	0.0	0.0	0.0
180	7/31/2018	12:36:32	0.0	0.0	0.0	0.0
181	7/31/2018	12:37:32	0.0	0.0	0.0	0.0
182	7/31/2018	12:38:32	0.0	0.0	0.0	0.0
183	7/31/2018	12:39:32	0.0	0.0	0.0	0.0
184	7/31/2018	12:40:32	0.0	0.0	0.0	0.0
185	7/31/2018	12:41:32	0.0	0.0	0.0	0.0
186	7/31/2018	12:42:32	0.0	0.0	0.0	0.0
187	7/31/2018	12:43:32	0.0	0.0	0.0	0.0
188	7/31/2018	12:44:32	0.0	0.0	0.0	0.0
189	7/31/2018	12:45:32	0.0	0.0	0.0	0.0
190	7/31/2018	12:46:32	0.0	0.0	0.0	0.0
191	7/31/2018	12:47:32	0.0	0.0	0.0	0.0
192	7/31/2018	12:48:32	0.0	0.0	0.0	0.0
193	7/31/2018	12:49:32	0.0	0.0	0.0	0.0
194	7/31/2018	12:50:32	0.0	0.0	0.0	0.0
195	7/31/2018	12:51:32	0.0	0.0	0.0	0.0
196	7/31/2018	12:52:32	0.0	0.0	0.0	0.0
197	7/31/2018	12:53:32	0.0	0.0	0.0	0.0
198	7/31/2018	12:54:32	0.0	0.0	0.0	0.0
199	7/31/2018	12:55:32	0.0	0.0	0.0	0.0
200	7/31/2018	12:56:32	0.0	0.0	0.0	0.0
201	7/31/2018	12:57:32	0.0	0.0	0.0	0.0
202	7/31/2018	12:58:32	0.0	0.0	0.0	0.0
203	7/31/2018	12:59:32	0.0	0.0	0.0	0.0
204	7/31/2018	13:00:32	0.0	0.0	0.0	0.0
205	7/31/2018	13:01:32	0.0	0.0	0.0	0.0
206	7/31/2018	13:02:32	0.0	0.0	0.0	0.0
207	7/31/2018	13:03:32	0.0	0.0	0.0	0.0
208	7/31/2018	13:04:32	0.0	0.0	0.0	0.0
209	7/31/2018	13:05:32	0.0	0.0	0.0	0.0
210	7/31/2018	13:06:32	0.0	0.0	0.0	0.0
211	7/31/2018	13:07:32	0.0	0.0	0.0	0.0
212	7/31/2018	13:08:32	0.0	0.0	0.0	0.0
213	7/31/2018	13:09:32	0.0	0.0	0.0	0.0
214	7/31/2018	13:10:32	0.0	0.0	0.0	0.0
215	7/31/2018	13:11:32	0.0	0.0	0.0	0.0
216	7/31/2018	13:12:32	0.0	0.0	0.0	0.0
217	7/31/2018	13:13:32	0.0	0.0	0.0	0.0
218	7/31/2018	13:14:32	0.0	0.0	0.0	0.0
219	7/31/2018	13:15:32	0.0	0.0	0.0	0.0
220	7/31/2018	13:16:32	0.0	0.0	0.0	0.0
221	7/31/2018	13:17:32	0.0	0.0	0.0	0.0
222	7/31/2018	13:18:32	0.0	0.0	0.0	0.0
223	7/31/2018	13:19:32	0.0	0.0	0.0	0.0
224	7/31/2018	13:20:32	0.0	0.0	0.0	0.0

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225	7/31/2018	13:21:32	0.0	0.0	0.0	0.0
226	7/31/2018	13:22:32	0.0	0.0	0.0	0.0
227	7/31/2018	13:23:32	0.0	0.0	0.0	0.0
228	7/31/2018	13:24:32	0.0	0.0	0.0	0.0
229	7/31/2018	13:25:32	0.0	0.0	0.0	0.0
230	7/31/2018	13:26:32	0.0	0.0	0.0	0.0
231	7/31/2018	13:27:32	0.0	0.0	0.0	0.0
232	7/31/2018	13:28:32	0.0	0.0	0.0	0.0
233	7/31/2018	13:29:32	0.0	0.0	0.0	0.0
234	7/31/2018	13:30:32	0.0	0.0	0.0	0.0
235	7/31/2018	13:31:32	0.0	0.0	0.0	0.0
236	7/31/2018	13:32:32	0.0	0.0	0.0	0.0
237	7/31/2018	13:33:32	0.0	0.0	0.0	0.0
238	7/31/2018	13:34:32	0.0	0.0	0.0	0.0
239	7/31/2018	13:35:32	0.0	0.0	0.0	0.0
240	7/31/2018	13:36:32	0.0	0.0	0.0	0.0
241	7/31/2018	13:37:32	0.0	0.0	0.0	0.0
242	7/31/2018	13:38:32	0.0	0.0	0.0	0.0
243	7/31/2018	13:39:32	0.0	0.0	0.0	0.0
244	7/31/2018	13:40:32	0.0	0.0	0.0	0.0
245	7/31/2018	13:41:32	0.0	0.0	0.0	0.0
246	7/31/2018	13:42:32	0.0	0.0	0.0	0.0
247	7/31/2018	13:43:32	0.0	0.0	0.0	0.0
248	7/31/2018	13:44:32	0.0	0.0	0.0	0.0
249	7/31/2018	13:45:32	0.0	0.0	0.0	0.0
250	7/31/2018	13:46:32	0.0	0.0	0.0	0.0
251	7/31/2018	13:47:32	0.0	0.0	0.0	0.0
252	7/31/2018	13:48:32	0.0	0.0	0.0	0.0
253	7/31/2018	13:49:32	0.0	0.0	0.0	0.0
254	7/31/2018	13:50:32	0.0	0.0	0.0	0.0
255	7/31/2018	13:51:32	0.0	0.0	0.0	0.0
256	7/31/2018	13:52:32	0.0	0.0	0.0	0.0
257	7/31/2018	13:53:32	0.0	0.0	0.0	0.0
258	7/31/2018	13:54:32	0.0	0.0	0.0	0.0
259	7/31/2018	13:55:32	0.0	0.0	0.0	0.0
260	7/31/2018	13:56:32	0.0	0.0	0.0	0.0
261	7/31/2018	13:57:32	0.0	0.0	0.0	0.0
262	7/31/2018	13:58:32	0.0	0.0	0.0	0.0
263	7/31/2018	13:59:32	0.0	0.0	0.0	0.0
264	7/31/2018	14:00:32	0.0	0.0	0.0	0.0
265	7/31/2018	14:01:32	0.0	0.0	0.0	0.0
266	7/31/2018	14:02:32	0.0	0.0	0.0	0.0
267	7/31/2018	14:03:32	0.0	0.0	0.0	0.0
268	7/31/2018	14:04:32	0.0	0.0	0.0	0.0
269	7/31/2018	14:05:32	0.0	0.0	0.0	0.0
270	7/31/2018	14:06:32	0.0	0.0	0.0	0.0
271	7/31/2018	14:07:32	0.0	0.0	0.0	0.0
272	7/31/2018	14:08:32	0.0	0.0	0.0	0.0

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273	7/31/2018	14:09:32	0.0	0.0	0.0	0.0
274	7/31/2018	14:10:32	0.0	0.0	0.0	0.0
275	7/31/2018	14:11:32	0.0	0.0	0.0	0.0
276	7/31/2018	14:12:32	0.0	0.0	0.0	0.0
277	7/31/2018	14:13:32	0.0	0.0	0.0	0.0
278	7/31/2018	14:14:32	0.0	0.0	0.0	0.0
279	7/31/2018	14:15:32	0.0	0.0	0.0	0.0
280	7/31/2018	14:16:32	0.0	0.0	0.0	0.0
281	7/31/2018	14:17:32	0.0	0.0	0.0	0.0
282	7/31/2018	14:18:32	0.0	0.0	0.0	0.0
283	7/31/2018	14:19:32	0.0	0.0	0.0	0.0
284	7/31/2018	14:20:32	0.0	0.0	0.0	0.0
285	7/31/2018	14:21:32	0.0	0.0	0.0	0.0
286	7/31/2018	14:22:32	0.0	0.0	0.0	0.0
287	7/31/2018	14:23:32	0.0	0.0	0.0	0.0
288	7/31/2018	14:24:32	0.0	0.0	0.0	0.0
289	7/31/2018	14:25:32	0.0	0.0	0.0	0.0
290	7/31/2018	14:26:32	0.0	0.0	0.0	0.0
291	7/31/2018	14:27:32	0.0	0.0	0.0	0.0
292	7/31/2018	14:28:32	0.0	0.0	0.0	0.0
293	7/31/2018	14:29:32	0.0	0.0	0.0	0.0
294	7/31/2018	14:30:32	0.0	0.0	0.0	0.0
295	7/31/2018	14:31:32	0.0	0.0	0.0	0.0
296	7/31/2018	14:32:32	0.0	0.0	0.0	0.0
297	7/31/2018	14:33:32	0.0	0.0	0.0	0.0
298	7/31/2018	14:34:32	0.0	0.0	0.0	0.0
299	7/31/2018	14:35:32	0.0	0.0	0.0	0.0
300	7/31/2018	14:36:32	0.0	0.0	0.0	0.0
301	7/31/2018	14:37:32	0.0	0.0	0.0	0.0
302	7/31/2018	14:38:32	0.0	0.0	0.0	0.0
Peak		0.0 0.0	0.0	0.0		
Min		0.0 0.0	0.0	0.0		
Average		0.0 0.0	0.0	0.0		

TWA/STEL

Index	Date/Time	PID(ppm) (TWA)	PID(ppm) (STEL)
001	7/31/2018 09:37:32	0.0	---
002	7/31/2018 09:38:32	0.0	---
003	7/31/2018 09:39:32	0.0	---
004	7/31/2018 09:40:32	0.0	---
005	7/31/2018 09:41:32	0.0	---
006	7/31/2018 09:42:32	0.0	---
007	7/31/2018 09:43:32	0.0	---
008	7/31/2018 09:44:32	0.0	---
009	7/31/2018 09:45:32	0.0	---
010	7/31/2018 09:46:32	0.0	---

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011	7/31/2018	09:47:32	0.0	---
012	7/31/2018	09:48:32	0.0	---
013	7/31/2018	09:49:32	0.0	---
014	7/31/2018	09:50:32	0.0	---
015	7/31/2018	09:51:32	0.0	0.0
016	7/31/2018	09:52:32	0.0	0.0
017	7/31/2018	09:53:32	0.0	0.0
018	7/31/2018	09:54:32	0.0	0.0
019	7/31/2018	09:55:32	0.0	0.0
020	7/31/2018	09:56:32	0.0	0.0
021	7/31/2018	09:57:32	0.0	0.0
022	7/31/2018	09:58:32	0.0	0.0
023	7/31/2018	09:59:32	0.0	0.0
024	7/31/2018	10:00:32	0.0	0.0
025	7/31/2018	10:01:32	0.0	0.0
026	7/31/2018	10:02:32	0.0	0.0
027	7/31/2018	10:03:32	0.0	0.0
028	7/31/2018	10:04:32	0.0	0.0
029	7/31/2018	10:05:32	0.0	0.0
030	7/31/2018	10:06:32	0.0	0.0
031	7/31/2018	10:07:32	0.0	0.0
032	7/31/2018	10:08:32	0.0	0.0
033	7/31/2018	10:09:32	0.0	0.0
034	7/31/2018	10:10:32	0.0	0.0
035	7/31/2018	10:11:32	0.0	0.0
036	7/31/2018	10:12:32	0.0	0.0
037	7/31/2018	10:13:32	0.0	0.0
038	7/31/2018	10:14:32	0.0	0.0
039	7/31/2018	10:15:32	0.0	0.0
040	7/31/2018	10:16:32	0.0	0.0
041	7/31/2018	10:17:32	0.0	0.0
042	7/31/2018	10:18:32	0.0	0.0
043	7/31/2018	10:19:32	0.0	0.0
044	7/31/2018	10:20:32	0.0	0.0
045	7/31/2018	10:21:32	0.0	0.0
046	7/31/2018	10:22:32	0.0	0.0
047	7/31/2018	10:23:32	0.0	0.0
048	7/31/2018	10:24:32	0.0	0.0
049	7/31/2018	10:25:32	0.0	0.0
050	7/31/2018	10:26:32	0.0	0.0
051	7/31/2018	10:27:32	0.0	0.0
052	7/31/2018	10:28:32	0.0	0.0
053	7/31/2018	10:29:32	0.0	0.0
054	7/31/2018	10:30:32	0.0	0.0
055	7/31/2018	10:31:32	0.0	0.0
056	7/31/2018	10:32:32	0.0	0.0
057	7/31/2018	10:33:32	0.0	0.0
058	7/31/2018	10:34:32	0.0	0.0

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059	7/31/2018	10:35:32	0.0	0.0
060	7/31/2018	10:36:32	0.0	0.0
061	7/31/2018	10:37:32	0.0	0.0
062	7/31/2018	10:38:32	0.0	0.0
063	7/31/2018	10:39:32	0.0	0.0
064	7/31/2018	10:40:32	0.0	0.0
065	7/31/2018	10:41:32	0.0	0.0
066	7/31/2018	10:42:32	0.0	0.0
067	7/31/2018	10:43:32	0.0	0.0
068	7/31/2018	10:44:32	0.0	0.0
069	7/31/2018	10:45:32	0.0	0.0
070	7/31/2018	10:46:32	0.0	0.0
071	7/31/2018	10:47:32	0.0	0.0
072	7/31/2018	10:48:32	0.0	0.0
073	7/31/2018	10:49:32	0.0	0.0
074	7/31/2018	10:50:32	0.0	0.0
075	7/31/2018	10:51:32	0.0	0.0
076	7/31/2018	10:52:32	0.0	0.0
077	7/31/2018	10:53:32	0.0	0.0
078	7/31/2018	10:54:32	0.0	0.0
079	7/31/2018	10:55:32	0.0	0.0
080	7/31/2018	10:56:32	0.0	0.0
081	7/31/2018	10:57:32	0.0	0.0
082	7/31/2018	10:58:32	0.0	0.0
083	7/31/2018	10:59:32	0.0	0.0
084	7/31/2018	11:00:32	0.0	0.0
085	7/31/2018	11:01:32	0.0	0.0
086	7/31/2018	11:02:32	0.0	0.0
087	7/31/2018	11:03:32	0.0	0.0
088	7/31/2018	11:04:32	0.0	0.0
089	7/31/2018	11:05:32	0.0	0.0
090	7/31/2018	11:06:32	0.0	0.0
091	7/31/2018	11:07:32	0.0	0.0
092	7/31/2018	11:08:32	0.0	0.0
093	7/31/2018	11:09:32	0.0	0.0
094	7/31/2018	11:10:32	0.0	0.0
095	7/31/2018	11:11:32	0.0	0.0
096	7/31/2018	11:12:32	0.0	0.0
097	7/31/2018	11:13:32	0.0	0.0
098	7/31/2018	11:14:32	0.0	0.0
099	7/31/2018	11:15:32	0.0	0.0
100	7/31/2018	11:16:32	0.0	0.0
101	7/31/2018	11:17:32	0.0	0.0
102	7/31/2018	11:18:32	0.0	0.0
103	7/31/2018	11:19:32	0.0	0.0
104	7/31/2018	11:20:32	0.0	0.0
105	7/31/2018	11:21:32	0.0	0.0
106	7/31/2018	11:22:32	0.0	0.0

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107	7/31/2018	11:23:32	0.0	0.0
108	7/31/2018	11:24:32	0.0	0.0
109	7/31/2018	11:25:32	0.0	0.0
110	7/31/2018	11:26:32	0.0	0.0
111	7/31/2018	11:27:32	0.0	0.0
112	7/31/2018	11:28:32	0.0	0.0
113	7/31/2018	11:29:32	0.0	0.0
114	7/31/2018	11:30:32	0.0	0.0
115	7/31/2018	11:31:32	0.0	0.0
116	7/31/2018	11:32:32	0.0	0.0
117	7/31/2018	11:33:32	0.0	0.0
118	7/31/2018	11:34:32	0.0	0.0
119	7/31/2018	11:35:32	0.0	0.0
120	7/31/2018	11:36:32	0.0	0.0
121	7/31/2018	11:37:32	0.0	0.0
122	7/31/2018	11:38:32	0.0	0.0
123	7/31/2018	11:39:32	0.0	0.0
124	7/31/2018	11:40:32	0.0	0.0
125	7/31/2018	11:41:32	0.0	0.0
126	7/31/2018	11:42:32	0.0	0.0
127	7/31/2018	11:43:32	0.0	0.0
128	7/31/2018	11:44:32	0.0	0.0
129	7/31/2018	11:45:32	0.0	0.0
130	7/31/2018	11:46:32	0.0	0.0
131	7/31/2018	11:47:32	0.0	0.0
132	7/31/2018	11:48:32	0.0	0.0
133	7/31/2018	11:49:32	0.0	0.0
134	7/31/2018	11:50:32	0.0	0.0
135	7/31/2018	11:51:32	0.0	0.0
136	7/31/2018	11:52:32	0.0	0.0
137	7/31/2018	11:53:32	0.0	0.0
138	7/31/2018	11:54:32	0.0	0.0
139	7/31/2018	11:55:32	0.0	0.0
140	7/31/2018	11:56:32	0.0	0.0
141	7/31/2018	11:57:32	0.0	0.0
142	7/31/2018	11:58:32	0.0	0.0
143	7/31/2018	11:59:32	0.0	0.0
144	7/31/2018	12:00:32	0.0	0.0
145	7/31/2018	12:01:32	0.0	0.0
146	7/31/2018	12:02:32	0.0	0.0
147	7/31/2018	12:03:32	0.0	0.0
148	7/31/2018	12:04:32	0.0	0.0
149	7/31/2018	12:05:32	0.0	0.0
150	7/31/2018	12:06:32	0.0	0.0
151	7/31/2018	12:07:32	0.0	0.0
152	7/31/2018	12:08:32	0.0	0.0
153	7/31/2018	12:09:32	0.0	0.0
154	7/31/2018	12:10:32	0.0	0.0

155	7/31/2018	12:11:32	0.0	0.0
156	7/31/2018	12:12:32	0.0	0.0
157	7/31/2018	12:13:32	0.0	0.0
158	7/31/2018	12:14:32	0.0	0.0
159	7/31/2018	12:15:32	0.0	0.0
160	7/31/2018	12:16:32	0.0	0.0
161	7/31/2018	12:17:32	0.0	0.0
162	7/31/2018	12:18:32	0.0	0.0
163	7/31/2018	12:19:32	0.0	0.0
164	7/31/2018	12:20:32	0.0	0.0
165	7/31/2018	12:21:32	0.0	0.0
166	7/31/2018	12:22:32	0.0	0.0
167	7/31/2018	12:23:32	0.0	0.0
168	7/31/2018	12:24:32	0.0	0.0
169	7/31/2018	12:25:32	0.0	0.0
170	7/31/2018	12:26:32	0.0	0.0
171	7/31/2018	12:27:32	0.0	0.0
172	7/31/2018	12:28:32	0.0	0.0
173	7/31/2018	12:29:32	0.0	0.0
174	7/31/2018	12:30:32	0.0	0.0
175	7/31/2018	12:31:32	0.0	0.0
176	7/31/2018	12:32:32	0.0	0.0
177	7/31/2018	12:33:32	0.0	0.0
178	7/31/2018	12:34:32	0.0	0.0
179	7/31/2018	12:35:32	0.0	0.0
180	7/31/2018	12:36:32	0.0	0.0
181	7/31/2018	12:37:32	0.0	0.0
182	7/31/2018	12:38:32	0.0	0.0
183	7/31/2018	12:39:32	0.0	0.0
184	7/31/2018	12:40:32	0.0	0.0
185	7/31/2018	12:41:32	0.0	0.0
186	7/31/2018	12:42:32	0.0	0.0
187	7/31/2018	12:43:32	0.0	0.0
188	7/31/2018	12:44:32	0.0	0.0
189	7/31/2018	12:45:32	0.0	0.0
190	7/31/2018	12:46:32	0.0	0.0
191	7/31/2018	12:47:32	0.0	0.0
192	7/31/2018	12:48:32	0.0	0.0
193	7/31/2018	12:49:32	0.0	0.0
194	7/31/2018	12:50:32	0.0	0.0
195	7/31/2018	12:51:32	0.0	0.0
196	7/31/2018	12:52:32	0.0	0.0
197	7/31/2018	12:53:32	0.0	0.0
198	7/31/2018	12:54:32	0.0	0.0
199	7/31/2018	12:55:32	0.0	0.0
200	7/31/2018	12:56:32	0.0	0.0
201	7/31/2018	12:57:32	0.0	0.0
202	7/31/2018	12:58:32	0.0	0.0

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203	7/31/2018	12:59:32	0.0	0.0
204	7/31/2018	13:00:32	0.0	0.0
205	7/31/2018	13:01:32	0.0	0.0
206	7/31/2018	13:02:32	0.0	0.0
207	7/31/2018	13:03:32	0.0	0.0
208	7/31/2018	13:04:32	0.0	0.0
209	7/31/2018	13:05:32	0.0	0.0
210	7/31/2018	13:06:32	0.0	0.0
211	7/31/2018	13:07:32	0.0	0.0
212	7/31/2018	13:08:32	0.0	0.0
213	7/31/2018	13:09:32	0.0	0.0
214	7/31/2018	13:10:32	0.0	0.0
215	7/31/2018	13:11:32	0.0	0.0
216	7/31/2018	13:12:32	0.0	0.0
217	7/31/2018	13:13:32	0.0	0.0
218	7/31/2018	13:14:32	0.0	0.0
219	7/31/2018	13:15:32	0.0	0.0
220	7/31/2018	13:16:32	0.0	0.0
221	7/31/2018	13:17:32	0.0	0.0
222	7/31/2018	13:18:32	0.0	0.0
223	7/31/2018	13:19:32	0.0	0.0
224	7/31/2018	13:20:32	0.0	0.0
225	7/31/2018	13:21:32	0.0	0.0
226	7/31/2018	13:22:32	0.0	0.0
227	7/31/2018	13:23:32	0.0	0.0
228	7/31/2018	13:24:32	0.0	0.0
229	7/31/2018	13:25:32	0.0	0.0
230	7/31/2018	13:26:32	0.0	0.0
231	7/31/2018	13:27:32	0.0	0.0
232	7/31/2018	13:28:32	0.0	0.0
233	7/31/2018	13:29:32	0.0	0.0
234	7/31/2018	13:30:32	0.0	0.0
235	7/31/2018	13:31:32	0.0	0.0
236	7/31/2018	13:32:32	0.0	0.0
237	7/31/2018	13:33:32	0.0	0.0
238	7/31/2018	13:34:32	0.0	0.0
239	7/31/2018	13:35:32	0.0	0.0
240	7/31/2018	13:36:32	0.0	0.0
241	7/31/2018	13:37:32	0.0	0.0
242	7/31/2018	13:38:32	0.0	0.0
243	7/31/2018	13:39:32	0.0	0.0
244	7/31/2018	13:40:32	0.0	0.0
245	7/31/2018	13:41:32	0.0	0.0
246	7/31/2018	13:42:32	0.0	0.0
247	7/31/2018	13:43:32	0.0	0.0
248	7/31/2018	13:44:32	0.0	0.0
249	7/31/2018	13:45:32	0.0	0.0
250	7/31/2018	13:46:32	0.0	0.0

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251	7/31/2018	13:47:32	0.0	0.0
252	7/31/2018	13:48:32	0.0	0.0
253	7/31/2018	13:49:32	0.0	0.0
254	7/31/2018	13:50:32	0.0	0.0
255	7/31/2018	13:51:32	0.0	0.0
256	7/31/2018	13:52:32	0.0	0.0
257	7/31/2018	13:53:32	0.0	0.0
258	7/31/2018	13:54:32	0.0	0.0
259	7/31/2018	13:55:32	0.0	0.0
260	7/31/2018	13:56:32	0.0	0.0
261	7/31/2018	13:57:32	0.0	0.0
262	7/31/2018	13:58:32	0.0	0.0
263	7/31/2018	13:59:32	0.0	0.0
264	7/31/2018	14:00:32	0.0	0.0
265	7/31/2018	14:01:32	0.0	0.0
266	7/31/2018	14:02:32	0.0	0.0
267	7/31/2018	14:03:32	0.0	0.0
268	7/31/2018	14:04:32	0.0	0.0
269	7/31/2018	14:05:32	0.0	0.0
270	7/31/2018	14:06:32	0.0	0.0
271	7/31/2018	14:07:32	0.0	0.0
272	7/31/2018	14:08:32	0.0	0.0
273	7/31/2018	14:09:32	0.0	0.0
274	7/31/2018	14:10:32	0.0	0.0
275	7/31/2018	14:11:32	0.0	0.0
276	7/31/2018	14:12:32	0.0	0.0
277	7/31/2018	14:13:32	0.0	0.0
278	7/31/2018	14:14:32	0.0	0.0
279	7/31/2018	14:15:32	0.0	0.0
280	7/31/2018	14:16:32	0.0	0.0
281	7/31/2018	14:17:32	0.0	0.0
282	7/31/2018	14:18:32	0.0	0.0
283	7/31/2018	14:19:32	0.0	0.0
284	7/31/2018	14:20:32	0.0	0.0
285	7/31/2018	14:21:32	0.0	0.0
286	7/31/2018	14:22:32	0.0	0.0
287	7/31/2018	14:23:32	0.0	0.0
288	7/31/2018	14:24:32	0.0	0.0
289	7/31/2018	14:25:32	0.0	0.0
290	7/31/2018	14:26:32	0.0	0.0
291	7/31/2018	14:27:32	0.0	0.0
292	7/31/2018	14:28:32	0.0	0.0
293	7/31/2018	14:29:32	0.0	0.0
294	7/31/2018	14:30:32	0.0	0.0
295	7/31/2018	14:31:32	0.0	0.0
296	7/31/2018	14:32:32	0.0	0.0
297	7/31/2018	14:33:32	0.0	0.0
298	7/31/2018	14:34:32	0.0	0.0

299	7/31/2018	14:35:32	0.0	0.0
300	7/31/2018	14:36:32	0.0	0.0
301	7/31/2018	14:37:32	0.0	0.0
302	7/31/2018	14:38:32	0.0	0.0

18/08/01 13:02

Summary

Unit Name MiniRAE 3000(PGM-7320)
Unit SN 592-919975
Unit Firmware Ver V2.14

Running Mode Hygiene Mode
Datalog Mode Manual
Diagnostic Mode No
Stop Reason Battery Low

Site ID RAE00000
User ID UW000000

Begin 8/1/2018 13:02:13
End 8/1/2018 15:38:11
Sample Period(s) 60
Number of Records 155

Sensor PID(ppm)
Sensor SN S023030116U2
Measure Type Min; Avg; Max; Real
Span 100.0
Span 2 1000.0
Low Alarm 50.0
High Alarm 100.0
Over Alarm 15000.0
STEL Alarm 25.0
TWA Alarm 10.0
Measurement Gas Isobutylene
Calibration Time 8/1/2018 12:47
Peak 0.0
Min 0.0
Average 0.0

Datalog

Index	Date/Time	PID(ppm) (Min)	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)	PID(ppm)
001	8/1/2018 13:03:13	0.0	0.0	0.0	0.0	0.0
002	8/1/2018 13:04:13	0.0	0.0	0.0	0.0	0.0

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003	8/1/2018	13:05:13	0.0	0.0	0.0	0.0
004	8/1/2018	13:06:13	0.0	0.0	0.0	0.0
005	8/1/2018	13:07:13	0.0	0.0	0.0	0.0
006	8/1/2018	13:08:13	0.0	0.0	0.0	0.0
007	8/1/2018	13:09:13	0.0	0.0	0.0	0.0
008	8/1/2018	13:10:13	0.0	0.0	0.0	0.0
009	8/1/2018	13:11:13	0.0	0.0	0.0	0.0
010	8/1/2018	13:12:13	0.0	0.0	0.0	0.0
011	8/1/2018	13:13:13	0.0	0.0	0.0	0.0
012	8/1/2018	13:14:13	0.0	0.0	0.0	0.0
013	8/1/2018	13:15:13	0.0	0.0	0.0	0.0
014	8/1/2018	13:16:13	0.0	0.0	0.0	0.0
015	8/1/2018	13:17:13	0.0	0.0	0.0	0.0
016	8/1/2018	13:18:13	0.0	0.0	0.0	0.0
017	8/1/2018	13:19:13	0.0	0.0	0.0	0.0
018	8/1/2018	13:20:13	0.0	0.0	0.0	0.0
019	8/1/2018	13:21:13	0.0	0.0	0.0	0.0
020	8/1/2018	13:22:13	0.0	0.0	0.0	0.0
021	8/1/2018	13:23:13	0.0	0.0	0.0	0.0
022	8/1/2018	13:24:13	0.0	0.0	0.0	0.0
023	8/1/2018	13:25:13	0.0	0.0	0.0	0.0
024	8/1/2018	13:26:13	0.0	0.0	0.0	0.0
025	8/1/2018	13:27:13	0.0	0.0	0.0	0.0
026	8/1/2018	13:28:13	0.0	0.0	0.0	0.0
027	8/1/2018	13:29:13	0.0	0.0	0.0	0.0
028	8/1/2018	13:30:13	0.0	0.0	0.0	0.0
029	8/1/2018	13:31:13	0.0	0.0	0.0	0.0
030	8/1/2018	13:32:13	0.0	0.0	0.0	0.0
031	8/1/2018	13:33:13	0.0	0.0	0.0	0.0
032	8/1/2018	13:34:13	0.0	0.0	0.0	0.0
033	8/1/2018	13:35:13	0.0	0.0	0.0	0.0
034	8/1/2018	13:36:13	0.0	0.0	0.0	0.0
035	8/1/2018	13:37:13	0.0	0.0	0.0	0.0
036	8/1/2018	13:38:13	0.0	0.0	0.0	0.0
037	8/1/2018	13:39:13	0.0	0.0	0.0	0.0
038	8/1/2018	13:40:13	0.0	0.0	0.0	0.0
039	8/1/2018	13:41:13	0.0	0.0	0.0	0.0
040	8/1/2018	13:42:13	0.0	0.0	0.0	0.0
041	8/1/2018	13:43:13	0.0	0.0	0.0	0.0
042	8/1/2018	13:44:13	0.0	0.0	0.0	0.0
043	8/1/2018	13:45:13	0.0	0.0	0.0	0.0
044	8/1/2018	13:46:13	0.0	0.0	0.0	0.0
045	8/1/2018	13:47:13	0.0	0.0	0.0	0.0
046	8/1/2018	13:48:13	0.0	0.0	0.0	0.0
047	8/1/2018	13:49:13	0.0	0.0	0.0	0.0
048	8/1/2018	13:50:13	0.0	0.0	0.0	0.0
049	8/1/2018	13:51:13	0.0	0.0	0.0	0.0
050	8/1/2018	13:52:13	0.0	0.0	0.0	0.0

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051	8/1/2018	13:53:13	0.0	0.0	0.0	0.0
052	8/1/2018	13:54:13	0.0	0.0	0.0	0.0
053	8/1/2018	13:55:13	0.0	0.0	0.0	0.0
054	8/1/2018	13:56:13	0.0	0.0	0.0	0.0
055	8/1/2018	13:57:13	0.0	0.0	0.0	0.0
056	8/1/2018	13:58:13	0.0	0.0	0.0	0.0
057	8/1/2018	13:59:13	0.0	0.0	0.0	0.0
058	8/1/2018	14:00:13	0.0	0.0	0.0	0.0
059	8/1/2018	14:01:13	0.0	0.0	0.0	0.0
060	8/1/2018	14:02:13	0.0	0.0	0.0	0.0
061	8/1/2018	14:03:13	0.0	0.0	0.0	0.0
062	8/1/2018	14:04:13	0.0	0.0	0.0	0.0
063	8/1/2018	14:05:13	0.0	0.0	0.0	0.0
064	8/1/2018	14:06:13	0.0	0.0	0.0	0.0
065	8/1/2018	14:07:13	0.0	0.0	0.0	0.0
066	8/1/2018	14:08:13	0.0	0.0	0.0	0.0
067	8/1/2018	14:09:13	0.0	0.0	0.0	0.0
068	8/1/2018	14:10:13	0.0	0.0	0.0	0.0
069	8/1/2018	14:11:13	0.0	0.0	0.0	0.0
070	8/1/2018	14:12:13	0.0	0.0	0.0	0.0
071	8/1/2018	14:13:13	0.0	0.0	0.0	0.0
072	8/1/2018	14:14:13	0.0	0.0	0.0	0.0
073	8/1/2018	14:15:13	0.0	0.0	0.0	0.0
074	8/1/2018	14:16:13	0.0	0.0	0.0	0.0
075	8/1/2018	14:17:13	0.0	0.0	0.0	0.0
076	8/1/2018	14:18:13	0.0	0.0	0.0	0.0
077	8/1/2018	14:19:13	0.0	0.0	0.0	0.0
078	8/1/2018	14:20:13	0.0	0.0	0.0	0.0
079	8/1/2018	14:21:13	0.0	0.0	0.0	0.0
080	8/1/2018	14:22:13	0.0	0.0	0.0	0.0
081	8/1/2018	14:23:13	0.0	0.0	0.0	0.0
082	8/1/2018	14:24:13	0.0	0.0	0.0	0.0
083	8/1/2018	14:25:13	0.0	0.0	0.0	0.0
084	8/1/2018	14:26:13	0.0	0.0	0.0	0.0
085	8/1/2018	14:27:13	0.0	0.0	0.0	0.0
086	8/1/2018	14:28:13	0.0	0.0	0.0	0.0
087	8/1/2018	14:29:13	0.0	0.0	0.0	0.0
088	8/1/2018	14:30:13	0.0	0.0	0.0	0.0
089	8/1/2018	14:31:13	0.0	0.0	0.0	0.0
090	8/1/2018	14:32:13	0.0	0.0	0.0	0.0
091	8/1/2018	14:33:13	0.0	0.0	0.0	0.0
092	8/1/2018	14:34:13	0.0	0.0	0.0	0.0
093	8/1/2018	14:35:13	0.0	0.0	0.0	0.0
094	8/1/2018	14:36:13	0.0	0.0	0.0	0.0
095	8/1/2018	14:37:13	0.0	0.0	0.0	0.0
096	8/1/2018	14:38:13	0.0	0.0	0.0	0.0
097	8/1/2018	14:39:13	0.0	0.0	0.0	0.0
098	8/1/2018	14:40:13	0.0	0.0	0.0	0.0

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099	8/1/2018	14:41:13	0.0	0.0	0.0	0.0
100	8/1/2018	14:42:13	0.0	0.0	0.0	0.0
101	8/1/2018	14:43:13	0.0	0.0	0.0	0.0
102	8/1/2018	14:44:13	0.0	0.0	0.0	0.0
103	8/1/2018	14:45:13	0.0	0.0	0.0	0.0
104	8/1/2018	14:46:13	0.0	0.0	0.0	0.0
105	8/1/2018	14:47:13	0.0	0.0	0.0	0.0
106	8/1/2018	14:48:13	0.0	0.0	0.0	0.0
107	8/1/2018	14:49:13	0.0	0.0	0.0	0.0
108	8/1/2018	14:50:13	0.0	0.0	0.0	0.0
109	8/1/2018	14:51:13	0.0	0.0	0.0	0.0
110	8/1/2018	14:52:13	0.0	0.0	0.0	0.0
111	8/1/2018	14:53:13	0.0	0.0	0.0	0.0
112	8/1/2018	14:54:13	0.0	0.0	0.0	0.0
113	8/1/2018	14:55:13	0.0	0.0	0.0	0.0
114	8/1/2018	14:56:13	0.0	0.0	0.0	0.0
115	8/1/2018	14:57:13	0.0	0.0	0.0	0.0
116	8/1/2018	14:58:13	0.0	0.0	0.0	0.0
117	8/1/2018	14:59:13	0.0	0.0	0.0	0.0
118	8/1/2018	15:00:13	0.0	0.0	0.0	0.0
119	8/1/2018	15:01:13	0.0	0.0	0.0	0.0
120	8/1/2018	15:02:13	0.0	0.0	0.0	0.0
121	8/1/2018	15:03:13	0.0	0.0	0.0	0.0
122	8/1/2018	15:04:13	0.0	0.0	0.0	0.0
123	8/1/2018	15:05:13	0.0	0.0	0.0	0.0
124	8/1/2018	15:06:13	0.0	0.0	0.0	0.0
125	8/1/2018	15:07:13	0.0	0.0	0.0	0.0
126	8/1/2018	15:08:13	0.0	0.0	0.0	0.0
127	8/1/2018	15:09:13	0.0	0.0	0.0	0.0
128	8/1/2018	15:10:13	0.0	0.0	0.0	0.0
129	8/1/2018	15:11:13	0.0	0.0	0.0	0.0
130	8/1/2018	15:12:13	0.0	0.0	0.0	0.0
131	8/1/2018	15:13:13	0.0	0.0	0.0	0.0
132	8/1/2018	15:14:13	0.0	0.0	0.0	0.0
133	8/1/2018	15:15:13	0.0	0.0	0.0	0.0
134	8/1/2018	15:16:13	0.0	0.0	0.0	0.0
135	8/1/2018	15:17:13	0.0	0.0	0.0	0.0
136	8/1/2018	15:18:13	0.0	0.0	0.0	0.0
137	8/1/2018	15:19:13	0.0	0.0	0.0	0.0
138	8/1/2018	15:20:13	0.0	0.0	0.0	0.0
139	8/1/2018	15:21:13	0.0	0.0	0.0	0.0
140	8/1/2018	15:22:13	0.0	0.0	0.0	0.0
141	8/1/2018	15:23:13	0.0	0.0	0.0	0.0
142	8/1/2018	15:24:13	0.0	0.0	0.0	0.0
143	8/1/2018	15:25:13	0.0	0.0	0.0	0.0
144	8/1/2018	15:26:13	0.0	0.0	0.0	0.0
145	8/1/2018	15:27:13	0.0	0.0	0.0	0.0
146	8/1/2018	15:28:13	0.0	0.0	0.0	0.0

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147	8/1/2018	15:29:13	0.0	0.0	0.0	0.0
148	8/1/2018	15:30:13	0.0	0.0	0.0	0.0
149	8/1/2018	15:31:13	0.0	0.0	0.0	0.0
150	8/1/2018	15:32:13	0.0	0.0	0.0	0.0
151	8/1/2018	15:33:13	0.0	0.0	0.0	0.0
152	8/1/2018	15:34:13	0.0	0.0	0.0	0.0
153	8/1/2018	15:35:13	0.0	0.0	0.0	0.0
154	8/1/2018	15:36:13	0.0	0.0	0.0	0.0
155	8/1/2018	15:37:13	0.0	0.0	0.0	0.0
Peak		0.0	0.0	0.0	0.0	
Min		0.0	0.0	0.0	0.0	
Average		0.0	0.0	0.0	0.0	

TWA/STEL

Index	Date/Time	PID(ppm) (TWA)	PID(ppm) (STEL)
001	8/1/2018 13:03:13	0.0	---
002	8/1/2018 13:04:13	0.0	---
003	8/1/2018 13:05:13	0.0	---
004	8/1/2018 13:06:13	0.0	---
005	8/1/2018 13:07:13	0.0	---
006	8/1/2018 13:08:13	0.0	---
007	8/1/2018 13:09:13	0.0	---
008	8/1/2018 13:10:13	0.0	---
009	8/1/2018 13:11:13	0.0	---
010	8/1/2018 13:12:13	0.0	---
011	8/1/2018 13:13:13	0.0	---
012	8/1/2018 13:14:13	0.0	---
013	8/1/2018 13:15:13	0.0	---
014	8/1/2018 13:16:13	0.0	---
015	8/1/2018 13:17:13	0.0	0.0
016	8/1/2018 13:18:13	0.0	0.0
017	8/1/2018 13:19:13	0.0	0.0
018	8/1/2018 13:20:13	0.0	0.0
019	8/1/2018 13:21:13	0.0	0.0
020	8/1/2018 13:22:13	0.0	0.0
021	8/1/2018 13:23:13	0.0	0.0
022	8/1/2018 13:24:13	0.0	0.0
023	8/1/2018 13:25:13	0.0	0.0
024	8/1/2018 13:26:13	0.0	0.0
025	8/1/2018 13:27:13	0.0	0.0
026	8/1/2018 13:28:13	0.0	0.0
027	8/1/2018 13:29:13	0.0	0.0
028	8/1/2018 13:30:13	0.0	0.0
029	8/1/2018 13:31:13	0.0	0.0
030	8/1/2018 13:32:13	0.0	0.0
031	8/1/2018 13:33:13	0.0	0.0

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032	8/1/2018	13:34:13	0.0	0.0
033	8/1/2018	13:35:13	0.0	0.0
034	8/1/2018	13:36:13	0.0	0.0
035	8/1/2018	13:37:13	0.0	0.0
036	8/1/2018	13:38:13	0.0	0.0
037	8/1/2018	13:39:13	0.0	0.0
038	8/1/2018	13:40:13	0.0	0.0
039	8/1/2018	13:41:13	0.0	0.0
040	8/1/2018	13:42:13	0.0	0.0
041	8/1/2018	13:43:13	0.0	0.0
042	8/1/2018	13:44:13	0.0	0.0
043	8/1/2018	13:45:13	0.0	0.0
044	8/1/2018	13:46:13	0.0	0.0
045	8/1/2018	13:47:13	0.0	0.0
046	8/1/2018	13:48:13	0.0	0.0
047	8/1/2018	13:49:13	0.0	0.0
048	8/1/2018	13:50:13	0.0	0.0
049	8/1/2018	13:51:13	0.0	0.0
050	8/1/2018	13:52:13	0.0	0.0
051	8/1/2018	13:53:13	0.0	0.0
052	8/1/2018	13:54:13	0.0	0.0
053	8/1/2018	13:55:13	0.0	0.0
054	8/1/2018	13:56:13	0.0	0.0
055	8/1/2018	13:57:13	0.0	0.0
056	8/1/2018	13:58:13	0.0	0.0
057	8/1/2018	13:59:13	0.0	0.0
058	8/1/2018	14:00:13	0.0	0.0
059	8/1/2018	14:01:13	0.0	0.0
060	8/1/2018	14:02:13	0.0	0.0
061	8/1/2018	14:03:13	0.0	0.0
062	8/1/2018	14:04:13	0.0	0.0
063	8/1/2018	14:05:13	0.0	0.0
064	8/1/2018	14:06:13	0.0	0.0
065	8/1/2018	14:07:13	0.0	0.0
066	8/1/2018	14:08:13	0.0	0.0
067	8/1/2018	14:09:13	0.0	0.0
068	8/1/2018	14:10:13	0.0	0.0
069	8/1/2018	14:11:13	0.0	0.0
070	8/1/2018	14:12:13	0.0	0.0
071	8/1/2018	14:13:13	0.0	0.0
072	8/1/2018	14:14:13	0.0	0.0
073	8/1/2018	14:15:13	0.0	0.0
074	8/1/2018	14:16:13	0.0	0.0
075	8/1/2018	14:17:13	0.0	0.0
076	8/1/2018	14:18:13	0.0	0.0
077	8/1/2018	14:19:13	0.0	0.0
078	8/1/2018	14:20:13	0.0	0.0
079	8/1/2018	14:21:13	0.0	0.0

080	8/1/2018	14:22:13	0.0	0.0
081	8/1/2018	14:23:13	0.0	0.0
082	8/1/2018	14:24:13	0.0	0.0
083	8/1/2018	14:25:13	0.0	0.0
084	8/1/2018	14:26:13	0.0	0.0
085	8/1/2018	14:27:13	0.0	0.0
086	8/1/2018	14:28:13	0.0	0.0
087	8/1/2018	14:29:13	0.0	0.0
088	8/1/2018	14:30:13	0.0	0.0
089	8/1/2018	14:31:13	0.0	0.0
090	8/1/2018	14:32:13	0.0	0.0
091	8/1/2018	14:33:13	0.0	0.0
092	8/1/2018	14:34:13	0.0	0.0
093	8/1/2018	14:35:13	0.0	0.0
094	8/1/2018	14:36:13	0.0	0.0
095	8/1/2018	14:37:13	0.0	0.0
096	8/1/2018	14:38:13	0.0	0.0
097	8/1/2018	14:39:13	0.0	0.0
098	8/1/2018	14:40:13	0.0	0.0
099	8/1/2018	14:41:13	0.0	0.0
100	8/1/2018	14:42:13	0.0	0.0
101	8/1/2018	14:43:13	0.0	0.0
102	8/1/2018	14:44:13	0.0	0.0
103	8/1/2018	14:45:13	0.0	0.0
104	8/1/2018	14:46:13	0.0	0.0
105	8/1/2018	14:47:13	0.0	0.0
106	8/1/2018	14:48:13	0.0	0.0
107	8/1/2018	14:49:13	0.0	0.0
108	8/1/2018	14:50:13	0.0	0.0
109	8/1/2018	14:51:13	0.0	0.0
110	8/1/2018	14:52:13	0.0	0.0
111	8/1/2018	14:53:13	0.0	0.0
112	8/1/2018	14:54:13	0.0	0.0
113	8/1/2018	14:55:13	0.0	0.0
114	8/1/2018	14:56:13	0.0	0.0
115	8/1/2018	14:57:13	0.0	0.0
116	8/1/2018	14:58:13	0.0	0.0
117	8/1/2018	14:59:13	0.0	0.0
118	8/1/2018	15:00:13	0.0	0.0
119	8/1/2018	15:01:13	0.0	0.0
120	8/1/2018	15:02:13	0.0	0.0
121	8/1/2018	15:03:13	0.0	0.0
122	8/1/2018	15:04:13	0.0	0.0
123	8/1/2018	15:05:13	0.0	0.0
124	8/1/2018	15:06:13	0.0	0.0
125	8/1/2018	15:07:13	0.0	0.0
126	8/1/2018	15:08:13	0.0	0.0
127	8/1/2018	15:09:13	0.0	0.0

128	8/1/2018	15:10:13	0.0	0.0
129	8/1/2018	15:11:13	0.0	0.0
130	8/1/2018	15:12:13	0.0	0.0
131	8/1/2018	15:13:13	0.0	0.0
132	8/1/2018	15:14:13	0.0	0.0
133	8/1/2018	15:15:13	0.0	0.0
134	8/1/2018	15:16:13	0.0	0.0
135	8/1/2018	15:17:13	0.0	0.0
136	8/1/2018	15:18:13	0.0	0.0
137	8/1/2018	15:19:13	0.0	0.0
138	8/1/2018	15:20:13	0.0	0.0
139	8/1/2018	15:21:13	0.0	0.0
140	8/1/2018	15:22:13	0.0	0.0
141	8/1/2018	15:23:13	0.0	0.0
142	8/1/2018	15:24:13	0.0	0.0
143	8/1/2018	15:25:13	0.0	0.0
144	8/1/2018	15:26:13	0.0	0.0
145	8/1/2018	15:27:13	0.0	0.0
146	8/1/2018	15:28:13	0.0	0.0
147	8/1/2018	15:29:13	0.0	0.0
148	8/1/2018	15:30:13	0.0	0.0
149	8/1/2018	15:31:13	0.0	0.0
150	8/1/2018	15:32:13	0.0	0.0
151	8/1/2018	15:33:13	0.0	0.0
152	8/1/2018	15:34:13	0.0	0.0
153	8/1/2018	15:35:13	0.0	0.0
154	8/1/2018	15:36:13	0.0	0.0
155	8/1/2018	15:37:13	0.0	0.0

=====
18/08/02 08:56

Summary

Unit Name MiniRAE 3000(PGM-7320)
Unit SN 592-919975
Unit Firmware Ver V2.14

Running Mode Hygiene Mode
Datalog Mode Manual
Diagnostic Mode No
Stop Reason Power Down

Site ID RAE00000
User ID UW000000

Begin 8/2/2018 08:56:52
End 8/2/2018 17:03:22
Sample Period(s) 60

Number of Records 486

 Sensor PID(ppm)
 Sensor SN S023030116U2
 Measure Type Min; Avg; Max; Real
 Span 100.0
 Span 2 1000.0
 Low Alarm 50.0
 High Alarm 100.0
 Over Alarm 15000.0
 STEL Alarm 25.0
 TWA Alarm 10.0
 Measurement Gas Isobutylene
 Calibration Time 8/2/2018 08:23
 Peak 0.0
 Min 0.0
 Average 0.0

Datalog

Index	Date/Time	PID(ppm) (Min)	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)	PID(ppm)
001	8/2/2018 08:57:52	0.0	0.0	0.0	0.0	0.0
002	8/2/2018 08:58:52	0.0	0.0	0.0	0.0	0.0
003	8/2/2018 08:59:52	0.0	0.0	0.0	0.0	0.0
004	8/2/2018 09:00:52	0.0	0.0	0.0	0.0	0.0
005	8/2/2018 09:01:52	0.0	0.0	0.0	0.0	0.0
006	8/2/2018 09:02:52	0.0	0.0	0.0	0.0	0.0
007	8/2/2018 09:03:52	0.0	0.0	0.0	0.0	0.0
008	8/2/2018 09:04:52	0.0	0.0	0.0	0.0	0.0
009	8/2/2018 09:05:52	0.0	0.0	0.0	0.0	0.0
010	8/2/2018 09:06:52	0.0	0.0	0.0	0.0	0.0
011	8/2/2018 09:07:52	0.0	0.0	0.0	0.0	0.0
012	8/2/2018 09:08:52	0.0	0.0	0.0	0.0	0.0
013	8/2/2018 09:09:52	0.0	0.0	0.0	0.0	0.0
014	8/2/2018 09:10:52	0.0	0.0	0.0	0.0	0.0
015	8/2/2018 09:11:52	0.0	0.0	0.0	0.0	0.0
016	8/2/2018 09:12:52	0.0	0.0	0.0	0.0	0.0
017	8/2/2018 09:13:52	0.0	0.0	0.0	0.0	0.0
018	8/2/2018 09:14:52	0.0	0.0	0.0	0.0	0.0
019	8/2/2018 09:15:52	0.0	0.0	0.0	0.0	0.0
020	8/2/2018 09:16:52	0.0	0.0	0.0	0.0	0.0
021	8/2/2018 09:17:52	0.0	0.0	0.0	0.0	0.0
022	8/2/2018 09:18:52	0.0	0.0	0.0	0.0	0.0
023	8/2/2018 09:19:52	0.0	0.0	0.0	0.0	0.0
024	8/2/2018 09:20:52	0.0	0.0	0.0	0.0	0.0
025	8/2/2018 09:21:52	0.0	0.0	0.0	0.0	0.0
026	8/2/2018 09:22:52	0.0	0.0	0.0	0.0	0.0

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027	8/2/2018 09:23:52	0.0	0.0	0.0	0.0
028	8/2/2018 09:24:52	0.0	0.0	0.0	0.0
029	8/2/2018 09:25:52	0.0	0.0	0.0	0.0
030	8/2/2018 09:26:52	0.0	0.0	0.0	0.0
031	8/2/2018 09:27:52	0.0	0.0	0.0	0.0
032	8/2/2018 09:28:52	0.0	0.0	0.0	0.0
033	8/2/2018 09:29:52	0.0	0.0	0.0	0.0
034	8/2/2018 09:30:52	0.0	0.0	0.0	0.0
035	8/2/2018 09:31:52	0.0	0.0	0.0	0.0
036	8/2/2018 09:32:52	0.0	0.0	0.0	0.0
037	8/2/2018 09:33:52	0.0	0.0	0.0	0.0
038	8/2/2018 09:34:52	0.0	0.0	0.0	0.0
039	8/2/2018 09:35:52	0.0	0.0	0.0	0.0
040	8/2/2018 09:36:52	0.0	0.0	0.0	0.0
041	8/2/2018 09:37:52	0.0	0.0	0.0	0.0
042	8/2/2018 09:38:52	0.0	0.0	0.0	0.0
043	8/2/2018 09:39:52	0.0	0.0	0.0	0.0
044	8/2/2018 09:40:52	0.0	0.0	0.0	0.0
045	8/2/2018 09:41:52	0.0	0.0	0.0	0.0
046	8/2/2018 09:42:52	0.0	0.0	0.0	0.0
047	8/2/2018 09:43:52	0.0	0.0	0.0	0.0
048	8/2/2018 09:44:52	0.0	0.0	0.0	0.0
049	8/2/2018 09:45:52	0.0	0.0	0.0	0.0
050	8/2/2018 09:46:52	0.0	0.0	0.0	0.0
051	8/2/2018 09:47:52	0.0	0.0	0.0	0.0
052	8/2/2018 09:48:52	0.0	0.0	0.0	0.0
053	8/2/2018 09:49:52	0.0	0.0	0.0	0.0
054	8/2/2018 09:50:52	0.0	0.0	0.0	0.0
055	8/2/2018 09:51:52	0.0	0.0	0.0	0.0
056	8/2/2018 09:52:52	0.0	0.0	0.0	0.0
057	8/2/2018 09:53:52	0.0	0.0	0.0	0.0
058	8/2/2018 09:54:52	0.0	0.0	0.0	0.0
059	8/2/2018 09:55:52	0.0	0.0	0.0	0.0
060	8/2/2018 09:56:52	0.0	0.0	0.0	0.0
061	8/2/2018 09:57:52	0.0	0.0	0.0	0.0
062	8/2/2018 09:58:52	0.0	0.0	0.0	0.0
063	8/2/2018 09:59:52	0.0	0.0	0.0	0.0
064	8/2/2018 10:00:52	0.0	0.0	0.0	0.0
065	8/2/2018 10:01:52	0.0	0.0	0.0	0.0
066	8/2/2018 10:02:52	0.0	0.0	0.0	0.0
067	8/2/2018 10:03:52	0.0	0.0	0.0	0.0
068	8/2/2018 10:04:52	0.0	0.0	0.0	0.0
069	8/2/2018 10:05:52	0.0	0.0	0.0	0.0
070	8/2/2018 10:06:52	0.0	0.0	0.0	0.0
071	8/2/2018 10:07:52	0.0	0.0	0.0	0.0
072	8/2/2018 10:08:52	0.0	0.0	0.0	0.0
073	8/2/2018 10:09:52	0.0	0.0	0.0	0.0
074	8/2/2018 10:10:52	0.0	0.0	0.0	0.0

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075	8/2/2018	10:11:52	0.0	0.0	0.0	0.0
076	8/2/2018	10:12:52	0.0	0.0	0.0	0.0
077	8/2/2018	10:13:52	0.0	0.0	0.0	0.0
078	8/2/2018	10:14:52	0.0	0.0	0.0	0.0
079	8/2/2018	10:15:52	0.0	0.0	0.0	0.0
080	8/2/2018	10:16:52	0.0	0.0	0.0	0.0
081	8/2/2018	10:17:52	0.0	0.0	0.0	0.0
082	8/2/2018	10:18:52	0.0	0.0	0.0	0.0
083	8/2/2018	10:19:52	0.0	0.0	0.0	0.0
084	8/2/2018	10:20:52	0.0	0.0	0.0	0.0
085	8/2/2018	10:21:52	0.0	0.0	0.0	0.0
086	8/2/2018	10:22:52	0.0	0.0	0.0	0.0
087	8/2/2018	10:23:52	0.0	0.0	0.0	0.0
088	8/2/2018	10:24:52	0.0	0.0	0.0	0.0
089	8/2/2018	10:25:52	0.0	0.0	0.0	0.0
090	8/2/2018	10:26:52	0.0	0.0	0.0	0.0
091	8/2/2018	10:27:52	0.0	0.0	0.0	0.0
092	8/2/2018	10:28:52	0.0	0.0	0.0	0.0
093	8/2/2018	10:29:52	0.0	0.0	0.0	0.0
094	8/2/2018	10:30:52	0.0	0.0	0.0	0.0
095	8/2/2018	10:31:52	0.0	0.0	0.0	0.0
096	8/2/2018	10:32:52	0.0	0.0	0.0	0.0
097	8/2/2018	10:33:52	0.0	0.0	0.0	0.0
098	8/2/2018	10:34:52	0.0	0.0	0.0	0.0
099	8/2/2018	10:35:52	0.0	0.0	0.0	0.0
100	8/2/2018	10:36:52	0.0	0.0	0.0	0.0
101	8/2/2018	10:37:52	0.0	0.0	0.0	0.0
102	8/2/2018	10:38:52	0.0	0.0	0.0	0.0
103	8/2/2018	10:39:52	0.0	0.0	0.0	0.0
104	8/2/2018	10:40:52	0.0	0.0	0.0	0.0
105	8/2/2018	10:41:52	0.0	0.0	0.0	0.0
106	8/2/2018	10:42:52	0.0	0.0	0.0	0.0
107	8/2/2018	10:43:52	0.0	0.0	0.0	0.0
108	8/2/2018	10:44:52	0.0	0.0	0.0	0.0
109	8/2/2018	10:45:52	0.0	0.0	0.0	0.0
110	8/2/2018	10:46:52	0.0	0.0	0.0	0.0
111	8/2/2018	10:47:52	0.0	0.0	0.0	0.0
112	8/2/2018	10:48:52	0.0	0.0	0.0	0.0
113	8/2/2018	10:49:52	0.0	0.0	0.0	0.0
114	8/2/2018	10:50:52	0.0	0.0	0.0	0.0
115	8/2/2018	10:51:52	0.0	0.0	0.0	0.0
116	8/2/2018	10:52:52	0.0	0.0	0.0	0.0
117	8/2/2018	10:53:52	0.0	0.0	0.0	0.0
118	8/2/2018	10:54:52	0.0	0.0	0.0	0.0
119	8/2/2018	10:55:52	0.0	0.0	0.0	0.0
120	8/2/2018	10:56:52	0.0	0.0	0.0	0.0
121	8/2/2018	10:57:52	0.0	0.0	0.0	0.0
122	8/2/2018	10:58:52	0.0	0.0	0.0	0.0

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123	8/2/2018	10:59:52	0.0	0.0	0.0	0.0
124	8/2/2018	11:00:52	0.0	0.0	0.0	0.0
125	8/2/2018	11:01:52	0.0	0.0	0.0	0.0
126	8/2/2018	11:02:52	0.0	0.0	0.0	0.0
127	8/2/2018	11:03:52	0.0	0.0	0.0	0.0
128	8/2/2018	11:04:52	0.0	0.0	0.0	0.0
129	8/2/2018	11:05:52	0.0	0.0	0.0	0.0
130	8/2/2018	11:06:52	0.0	0.0	0.0	0.0
131	8/2/2018	11:07:52	0.0	0.0	0.0	0.0
132	8/2/2018	11:08:52	0.0	0.0	0.0	0.0
133	8/2/2018	11:09:52	0.0	0.0	0.0	0.0
134	8/2/2018	11:10:52	0.0	0.0	0.0	0.0
135	8/2/2018	11:11:52	0.0	0.0	0.0	0.0
136	8/2/2018	11:12:52	0.0	0.0	0.0	0.0
137	8/2/2018	11:13:52	0.0	0.0	0.0	0.0
138	8/2/2018	11:14:52	0.0	0.0	0.0	0.0
139	8/2/2018	11:15:52	0.0	0.0	0.0	0.0
140	8/2/2018	11:16:52	0.0	0.0	0.0	0.0
141	8/2/2018	11:17:52	0.0	0.0	0.0	0.0
142	8/2/2018	11:18:52	0.0	0.0	0.0	0.0
143	8/2/2018	11:19:52	0.0	0.0	0.0	0.0
144	8/2/2018	11:20:52	0.0	0.0	0.0	0.0
145	8/2/2018	11:21:52	0.0	0.0	0.0	0.0
146	8/2/2018	11:22:52	0.0	0.0	0.0	0.0
147	8/2/2018	11:23:52	0.0	0.0	0.0	0.0
148	8/2/2018	11:24:52	0.0	0.0	0.0	0.0
149	8/2/2018	11:25:52	0.0	0.0	0.0	0.0
150	8/2/2018	11:26:52	0.0	0.0	0.0	0.0
151	8/2/2018	11:27:52	0.0	0.0	0.0	0.0
152	8/2/2018	11:28:52	0.0	0.0	0.0	0.0
153	8/2/2018	11:29:52	0.0	0.0	0.0	0.0
154	8/2/2018	11:30:52	0.0	0.0	0.0	0.0
155	8/2/2018	11:31:52	0.0	0.0	0.0	0.0
156	8/2/2018	11:32:52	0.0	0.0	0.0	0.0
157	8/2/2018	11:33:52	0.0	0.0	0.0	0.0
158	8/2/2018	11:34:52	0.0	0.0	0.0	0.0
159	8/2/2018	11:35:52	0.0	0.0	0.0	0.0
160	8/2/2018	11:36:52	0.0	0.0	0.0	0.0
161	8/2/2018	11:37:52	0.0	0.0	0.0	0.0
162	8/2/2018	11:38:52	0.0	0.0	0.0	0.0
163	8/2/2018	11:39:52	0.0	0.0	0.0	0.0
164	8/2/2018	11:40:52	0.0	0.0	0.0	0.0
165	8/2/2018	11:41:52	0.0	0.0	0.0	0.0
166	8/2/2018	11:42:52	0.0	0.0	0.0	0.0
167	8/2/2018	11:43:52	0.0	0.0	0.0	0.0
168	8/2/2018	11:44:52	0.0	0.0	0.0	0.0
169	8/2/2018	11:45:52	0.0	0.0	0.0	0.0
170	8/2/2018	11:46:52	0.0	0.0	0.0	0.0

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171	8/2/2018	11:47:52	0.0	0.0	0.0	0.0
172	8/2/2018	11:48:52	0.0	0.0	0.0	0.0
173	8/2/2018	11:49:52	0.0	0.0	0.0	0.0
174	8/2/2018	11:50:52	0.0	0.0	0.0	0.0
175	8/2/2018	11:51:52	0.0	0.0	0.0	0.0
176	8/2/2018	11:52:52	0.0	0.0	0.0	0.0
177	8/2/2018	11:53:52	0.0	0.0	0.0	0.0
178	8/2/2018	11:54:52	0.0	0.0	0.0	0.0
179	8/2/2018	11:55:52	0.0	0.0	0.0	0.0
180	8/2/2018	11:56:52	0.0	0.0	0.0	0.0
181	8/2/2018	11:57:52	0.0	0.0	0.0	0.0
182	8/2/2018	11:58:52	0.0	0.0	0.0	0.0
183	8/2/2018	11:59:52	0.0	0.0	0.0	0.0
184	8/2/2018	12:00:52	0.0	0.0	0.0	0.0
185	8/2/2018	12:01:52	0.0	0.0	0.0	0.0
186	8/2/2018	12:02:52	0.0	0.0	0.0	0.0
187	8/2/2018	12:03:52	0.0	0.0	0.0	0.0
188	8/2/2018	12:04:52	0.0	0.0	0.0	0.0
189	8/2/2018	12:05:52	0.0	0.0	0.0	0.0
190	8/2/2018	12:06:52	0.0	0.0	0.0	0.0
191	8/2/2018	12:07:52	0.0	0.0	0.0	0.0
192	8/2/2018	12:08:52	0.0	0.0	0.0	0.0
193	8/2/2018	12:09:52	0.0	0.0	0.0	0.0
194	8/2/2018	12:10:52	0.0	0.0	0.0	0.0
195	8/2/2018	12:11:52	0.0	0.0	0.0	0.0
196	8/2/2018	12:12:52	0.0	0.0	0.0	0.0
197	8/2/2018	12:13:52	0.0	0.0	0.0	0.0
198	8/2/2018	12:14:52	0.0	0.0	0.0	0.0
199	8/2/2018	12:15:52	0.0	0.0	0.0	0.0
200	8/2/2018	12:16:52	0.0	0.0	0.0	0.0
201	8/2/2018	12:17:52	0.0	0.0	0.0	0.0
202	8/2/2018	12:18:52	0.0	0.0	0.0	0.0
203	8/2/2018	12:19:52	0.0	0.0	0.0	0.0
204	8/2/2018	12:20:52	0.0	0.0	0.0	0.0
205	8/2/2018	12:21:52	0.0	0.0	0.0	0.0
206	8/2/2018	12:22:52	0.0	0.0	0.0	0.0
207	8/2/2018	12:23:52	0.0	0.0	0.0	0.0
208	8/2/2018	12:24:52	0.0	0.0	0.0	0.0
209	8/2/2018	12:25:52	0.0	0.0	0.0	0.0
210	8/2/2018	12:26:52	0.0	0.0	0.0	0.0
211	8/2/2018	12:27:52	0.0	0.0	0.0	0.0
212	8/2/2018	12:28:52	0.0	0.0	0.0	0.0
213	8/2/2018	12:29:52	0.0	0.0	0.0	0.0
214	8/2/2018	12:30:52	0.0	0.0	0.0	0.0
215	8/2/2018	12:31:52	0.0	0.0	0.0	0.0
216	8/2/2018	12:32:52	0.0	0.0	0.0	0.0
217	8/2/2018	12:33:52	0.0	0.0	0.0	0.0
218	8/2/2018	12:34:52	0.0	0.0	0.0	0.0

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219	8/2/2018	12:35:52	0.0	0.0	0.0	0.0
220	8/2/2018	12:36:52	0.0	0.0	0.0	0.0
221	8/2/2018	12:37:52	0.0	0.0	0.0	0.0
222	8/2/2018	12:38:52	0.0	0.0	0.0	0.0
223	8/2/2018	12:39:52	0.0	0.0	0.0	0.0
224	8/2/2018	12:40:52	0.0	0.0	0.0	0.0
225	8/2/2018	12:41:52	0.0	0.0	0.0	0.0
226	8/2/2018	12:42:52	0.0	0.0	0.0	0.0
227	8/2/2018	12:43:52	0.0	0.0	0.0	0.0
228	8/2/2018	12:44:52	0.0	0.0	0.0	0.0
229	8/2/2018	12:45:52	0.0	0.0	0.0	0.0
230	8/2/2018	12:46:52	0.0	0.0	0.0	0.0
231	8/2/2018	12:47:52	0.0	0.0	0.0	0.0
232	8/2/2018	12:48:52	0.0	0.0	0.0	0.0
233	8/2/2018	12:49:52	0.0	0.0	0.0	0.0
234	8/2/2018	12:50:52	0.0	0.0	0.0	0.0
235	8/2/2018	12:51:52	0.0	0.0	0.0	0.0
236	8/2/2018	12:52:52	0.0	0.0	0.0	0.0
237	8/2/2018	12:53:52	0.0	0.0	0.0	0.0
238	8/2/2018	12:54:52	0.0	0.0	0.0	0.0
239	8/2/2018	12:55:52	0.0	0.0	0.0	0.0
240	8/2/2018	12:56:52	0.0	0.0	0.0	0.0
241	8/2/2018	12:57:52	0.0	0.0	0.0	0.0
242	8/2/2018	12:58:52	0.0	0.0	0.0	0.0
243	8/2/2018	12:59:52	0.0	0.0	0.0	0.0
244	8/2/2018	13:00:52	0.0	0.0	0.0	0.0
245	8/2/2018	13:01:52	0.0	0.0	0.0	0.0
246	8/2/2018	13:02:52	0.0	0.0	0.0	0.0
247	8/2/2018	13:03:52	0.0	0.0	0.0	0.0
248	8/2/2018	13:04:52	0.0	0.0	0.0	0.0
249	8/2/2018	13:05:52	0.0	0.0	0.0	0.0
250	8/2/2018	13:06:52	0.0	0.0	0.0	0.0
251	8/2/2018	13:07:52	0.0	0.0	0.0	0.0
252	8/2/2018	13:08:52	0.0	0.0	0.0	0.0
253	8/2/2018	13:09:52	0.0	0.0	0.0	0.0
254	8/2/2018	13:10:52	0.0	0.0	0.0	0.0
255	8/2/2018	13:11:52	0.0	0.0	0.0	0.0
256	8/2/2018	13:12:52	0.0	0.0	0.0	0.0
257	8/2/2018	13:13:52	0.0	0.0	0.0	0.0
258	8/2/2018	13:14:52	0.0	0.0	0.0	0.0
259	8/2/2018	13:15:52	0.0	0.0	0.0	0.0
260	8/2/2018	13:16:52	0.0	0.0	0.0	0.0
261	8/2/2018	13:17:52	0.0	0.0	0.0	0.0
262	8/2/2018	13:18:52	0.0	0.0	0.0	0.0
263	8/2/2018	13:19:52	0.0	0.0	0.0	0.0
264	8/2/2018	13:20:52	0.0	0.0	0.0	0.0
265	8/2/2018	13:21:52	0.0	0.0	0.0	0.0
266	8/2/2018	13:22:52	0.0	0.0	0.0	0.0

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267	8/2/2018	13:23:52	0.0	0.0	0.0	0.0
268	8/2/2018	13:24:52	0.0	0.0	0.0	0.0
269	8/2/2018	13:25:52	0.0	0.0	0.0	0.0
270	8/2/2018	13:26:52	0.0	0.0	0.0	0.0
271	8/2/2018	13:27:52	0.0	0.0	0.0	0.0
272	8/2/2018	13:28:52	0.0	0.0	0.0	0.0
273	8/2/2018	13:29:52	0.0	0.0	0.0	0.0
274	8/2/2018	13:30:52	0.0	0.0	0.0	0.0
275	8/2/2018	13:31:52	0.0	0.0	0.0	0.0
276	8/2/2018	13:32:52	0.0	0.0	0.0	0.0
277	8/2/2018	13:33:52	0.0	0.0	0.0	0.0
278	8/2/2018	13:34:52	0.0	0.0	0.0	0.0
279	8/2/2018	13:35:52	0.0	0.0	0.0	0.0
280	8/2/2018	13:36:52	0.0	0.0	0.0	0.0
281	8/2/2018	13:37:52	0.0	0.0	0.0	0.0
282	8/2/2018	13:38:52	0.0	0.0	0.0	0.0
283	8/2/2018	13:39:52	0.0	0.0	0.0	0.0
284	8/2/2018	13:40:52	0.0	0.0	0.0	0.0
285	8/2/2018	13:41:52	0.0	0.0	0.0	0.0
286	8/2/2018	13:42:52	0.0	0.0	0.0	0.0
287	8/2/2018	13:43:52	0.0	0.0	0.0	0.0
288	8/2/2018	13:44:52	0.0	0.0	0.0	0.0
289	8/2/2018	13:45:52	0.0	0.0	0.0	0.0
290	8/2/2018	13:46:52	0.0	0.0	0.0	0.0
291	8/2/2018	13:47:52	0.0	0.0	0.0	0.0
292	8/2/2018	13:48:52	0.0	0.0	0.0	0.0
293	8/2/2018	13:49:52	0.0	0.0	0.0	0.0
294	8/2/2018	13:50:52	0.0	0.0	0.0	0.0
295	8/2/2018	13:51:52	0.0	0.0	0.0	0.0
296	8/2/2018	13:52:52	0.0	0.0	0.0	0.0
297	8/2/2018	13:53:52	0.0	0.0	0.0	0.0
298	8/2/2018	13:54:52	0.0	0.0	0.0	0.0
299	8/2/2018	13:55:52	0.0	0.0	0.0	0.0
300	8/2/2018	13:56:52	0.0	0.0	0.0	0.0
301	8/2/2018	13:57:52	0.0	0.0	0.0	0.0
302	8/2/2018	13:58:52	0.0	0.0	0.0	0.0
303	8/2/2018	13:59:52	0.0	0.0	0.0	0.0
304	8/2/2018	14:00:52	0.0	0.0	0.0	0.0
305	8/2/2018	14:01:52	0.0	0.0	0.0	0.0
306	8/2/2018	14:02:52	0.0	0.0	0.0	0.0
307	8/2/2018	14:03:52	0.0	0.0	0.0	0.0
308	8/2/2018	14:04:52	0.0	0.0	0.0	0.0
309	8/2/2018	14:05:52	0.0	0.0	0.0	0.0
310	8/2/2018	14:06:52	0.0	0.0	0.0	0.0
311	8/2/2018	14:07:52	0.0	0.0	0.0	0.0
312	8/2/2018	14:08:52	0.0	0.0	0.0	0.0
313	8/2/2018	14:09:52	0.0	0.0	0.0	0.0
314	8/2/2018	14:10:52	0.0	0.0	0.0	0.0

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315	8/2/2018	14:11:52	0.0	0.0	0.0	0.0
316	8/2/2018	14:12:52	0.0	0.0	0.0	0.0
317	8/2/2018	14:13:52	0.0	0.0	0.0	0.0
318	8/2/2018	14:14:52	0.0	0.0	0.0	0.0
319	8/2/2018	14:15:52	0.0	0.0	0.0	0.0
320	8/2/2018	14:16:52	0.0	0.0	0.0	0.0
321	8/2/2018	14:17:52	0.0	0.0	0.0	0.0
322	8/2/2018	14:18:52	0.0	0.0	0.0	0.0
323	8/2/2018	14:19:52	0.0	0.0	0.0	0.0
324	8/2/2018	14:20:52	0.0	0.0	0.0	0.0
325	8/2/2018	14:21:52	0.0	0.0	0.0	0.0
326	8/2/2018	14:22:52	0.0	0.0	0.0	0.0
327	8/2/2018	14:23:52	0.0	0.0	0.0	0.0
328	8/2/2018	14:24:52	0.0	0.0	0.0	0.0
329	8/2/2018	14:25:52	0.0	0.0	0.0	0.0
330	8/2/2018	14:26:52	0.0	0.0	0.0	0.0
331	8/2/2018	14:27:52	0.0	0.0	0.0	0.0
332	8/2/2018	14:28:52	0.0	0.0	0.0	0.0
333	8/2/2018	14:29:52	0.0	0.0	0.0	0.0
334	8/2/2018	14:30:52	0.0	0.0	0.0	0.0
335	8/2/2018	14:31:52	0.0	0.0	0.0	0.0
336	8/2/2018	14:32:52	0.0	0.0	0.0	0.0
337	8/2/2018	14:33:52	0.0	0.0	0.0	0.0
338	8/2/2018	14:34:52	0.0	0.0	0.0	0.0
339	8/2/2018	14:35:52	0.0	0.0	0.0	0.0
340	8/2/2018	14:36:52	0.0	0.0	0.0	0.0
341	8/2/2018	14:37:52	0.0	0.0	0.0	0.0
342	8/2/2018	14:38:52	0.0	0.0	0.0	0.0
343	8/2/2018	14:39:52	0.0	0.0	0.0	0.0
344	8/2/2018	14:40:52	0.0	0.0	0.0	0.0
345	8/2/2018	14:41:52	0.0	0.0	0.0	0.0
346	8/2/2018	14:42:52	0.0	0.0	0.0	0.0
347	8/2/2018	14:43:52	0.0	0.0	0.0	0.0
348	8/2/2018	14:44:52	0.0	0.0	0.0	0.0
349	8/2/2018	14:45:52	0.0	0.0	0.0	0.0
350	8/2/2018	14:46:52	0.0	0.0	0.0	0.0
351	8/2/2018	14:47:52	0.0	0.0	0.0	0.0
352	8/2/2018	14:48:52	0.0	0.0	0.0	0.0
353	8/2/2018	14:49:52	0.0	0.0	0.0	0.0
354	8/2/2018	14:50:52	0.0	0.0	0.0	0.0
355	8/2/2018	14:51:52	0.0	0.0	0.0	0.0
356	8/2/2018	14:52:52	0.0	0.0	0.0	0.0
357	8/2/2018	14:53:52	0.0	0.0	0.0	0.0
358	8/2/2018	14:54:52	0.0	0.0	0.0	0.0
359	8/2/2018	14:55:52	0.0	0.0	0.0	0.0
360	8/2/2018	14:56:52	0.0	0.0	0.0	0.0
361	8/2/2018	14:57:52	0.0	0.0	0.0	0.0
362	8/2/2018	14:58:52	0.0	0.0	0.0	0.0

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363	8/2/2018	14:59:52	0.0	0.0	0.0	0.0
364	8/2/2018	15:00:52	0.0	0.0	0.0	0.0
365	8/2/2018	15:01:52	0.0	0.0	0.0	0.0
366	8/2/2018	15:02:52	0.0	0.0	0.0	0.0
367	8/2/2018	15:03:52	0.0	0.0	0.0	0.0
368	8/2/2018	15:04:52	0.0	0.0	0.0	0.0
369	8/2/2018	15:05:52	0.0	0.0	0.0	0.0
370	8/2/2018	15:06:52	0.0	0.0	0.0	0.0
371	8/2/2018	15:07:52	0.0	0.0	0.0	0.0
372	8/2/2018	15:08:52	0.0	0.0	0.0	0.0
373	8/2/2018	15:09:52	0.0	0.0	0.0	0.0
374	8/2/2018	15:10:52	0.0	0.0	0.0	0.0
375	8/2/2018	15:11:52	0.0	0.0	0.0	0.0
376	8/2/2018	15:12:52	0.0	0.0	0.0	0.0
377	8/2/2018	15:13:52	0.0	0.0	0.0	0.0
378	8/2/2018	15:14:52	0.0	0.0	0.0	0.0
379	8/2/2018	15:15:52	0.0	0.0	0.0	0.0
380	8/2/2018	15:16:52	0.0	0.0	0.0	0.0
381	8/2/2018	15:17:52	0.0	0.0	0.0	0.0
382	8/2/2018	15:18:52	0.0	0.0	0.0	0.0
383	8/2/2018	15:19:52	0.0	0.0	0.0	0.0
384	8/2/2018	15:20:52	0.0	0.0	0.0	0.0
385	8/2/2018	15:21:52	0.0	0.0	0.0	0.0
386	8/2/2018	15:22:52	0.0	0.0	0.0	0.0
387	8/2/2018	15:23:52	0.0	0.0	0.0	0.0
388	8/2/2018	15:24:52	0.0	0.0	0.0	0.0
389	8/2/2018	15:25:52	0.0	0.0	0.0	0.0
390	8/2/2018	15:26:52	0.0	0.0	0.0	0.0
391	8/2/2018	15:27:52	0.0	0.0	0.0	0.0
392	8/2/2018	15:28:52	0.0	0.0	0.0	0.0
393	8/2/2018	15:29:52	0.0	0.0	0.0	0.0
394	8/2/2018	15:30:52	0.0	0.0	0.0	0.0
395	8/2/2018	15:31:52	0.0	0.0	0.0	0.0
396	8/2/2018	15:32:52	0.0	0.0	0.0	0.0
397	8/2/2018	15:33:52	0.0	0.0	0.0	0.0
398	8/2/2018	15:34:52	0.0	0.0	0.0	0.0
399	8/2/2018	15:35:52	0.0	0.0	0.0	0.0
400	8/2/2018	15:36:52	0.0	0.0	0.0	0.0
401	8/2/2018	15:37:52	0.0	0.0	0.0	0.0
402	8/2/2018	15:38:52	0.0	0.0	0.0	0.0
403	8/2/2018	15:39:52	0.0	0.0	0.0	0.0
404	8/2/2018	15:40:52	0.0	0.0	0.0	0.0
405	8/2/2018	15:41:52	0.0	0.0	0.0	0.0
406	8/2/2018	15:42:52	0.0	0.0	0.0	0.0
407	8/2/2018	15:43:52	0.0	0.0	0.0	0.0
408	8/2/2018	15:44:52	0.0	0.0	0.0	0.0
409	8/2/2018	15:45:52	0.0	0.0	0.0	0.0
410	8/2/2018	15:46:52	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

411	8/2/2018	15:47:52	0.0	0.0	0.0	0.0
412	8/2/2018	15:48:52	0.0	0.0	0.0	0.0
413	8/2/2018	15:49:52	0.0	0.0	0.0	0.0
414	8/2/2018	15:50:52	0.0	0.0	0.0	0.0
415	8/2/2018	15:51:52	0.0	0.0	0.0	0.0
416	8/2/2018	15:52:52	0.0	0.0	0.0	0.0
417	8/2/2018	15:53:52	0.0	0.0	0.0	0.0
418	8/2/2018	15:54:52	0.0	0.0	0.0	0.0
419	8/2/2018	15:55:52	0.0	0.0	0.0	0.0
420	8/2/2018	15:56:52	0.0	0.0	0.0	0.0
421	8/2/2018	15:57:52	0.0	0.0	0.0	0.0
422	8/2/2018	15:58:52	0.0	0.0	0.0	0.0
423	8/2/2018	15:59:52	0.0	0.0	0.0	0.0
424	8/2/2018	16:00:52	0.0	0.0	0.0	0.0
425	8/2/2018	16:01:52	0.0	0.0	0.0	0.0
426	8/2/2018	16:02:52	0.0	0.0	0.0	0.0
427	8/2/2018	16:03:52	0.0	0.0	0.0	0.0
428	8/2/2018	16:04:52	0.0	0.0	0.0	0.0
429	8/2/2018	16:05:52	0.0	0.0	0.0	0.0
430	8/2/2018	16:06:52	0.0	0.0	0.0	0.0
431	8/2/2018	16:07:52	0.0	0.0	0.0	0.0
432	8/2/2018	16:08:52	0.0	0.0	0.0	0.0
433	8/2/2018	16:09:52	0.0	0.0	0.0	0.0
434	8/2/2018	16:10:52	0.0	0.0	0.0	0.0
435	8/2/2018	16:11:52	0.0	0.0	0.0	0.0
436	8/2/2018	16:12:52	0.0	0.0	0.0	0.0
437	8/2/2018	16:13:52	0.0	0.0	0.0	0.0
438	8/2/2018	16:14:52	0.0	0.0	0.0	0.0
439	8/2/2018	16:15:52	0.0	0.0	0.0	0.0
440	8/2/2018	16:16:52	0.0	0.0	0.0	0.0
441	8/2/2018	16:17:52	0.0	0.0	0.0	0.0
442	8/2/2018	16:18:52	0.0	0.0	0.0	0.0
443	8/2/2018	16:19:52	0.0	0.0	0.0	0.0
444	8/2/2018	16:20:52	0.0	0.0	0.0	0.0
445	8/2/2018	16:21:52	0.0	0.0	0.0	0.0
446	8/2/2018	16:22:52	0.0	0.0	0.0	0.0
447	8/2/2018	16:23:52	0.0	0.0	0.0	0.0
448	8/2/2018	16:24:52	0.0	0.0	0.0	0.0
449	8/2/2018	16:25:52	0.0	0.0	0.0	0.0
450	8/2/2018	16:26:52	0.0	0.0	0.0	0.0
451	8/2/2018	16:27:52	0.0	0.0	0.0	0.0
452	8/2/2018	16:28:52	0.0	0.0	0.0	0.0
453	8/2/2018	16:29:52	0.0	0.0	0.0	0.0
454	8/2/2018	16:30:52	0.0	0.0	0.0	0.0
455	8/2/2018	16:31:52	0.0	0.0	0.0	0.0
456	8/2/2018	16:32:52	0.0	0.0	0.0	0.0
457	8/2/2018	16:33:52	0.0	0.0	0.0	0.0
458	8/2/2018	16:34:52	0.0	0.0	0.0	0.0

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459	8/2/2018	16:35:52	0.0	0.0	0.0	0.0
460	8/2/2018	16:36:52	0.0	0.0	0.0	0.0
461	8/2/2018	16:37:52	0.0	0.0	0.0	0.0
462	8/2/2018	16:38:52	0.0	0.0	0.0	0.0
463	8/2/2018	16:39:52	0.0	0.0	0.0	0.0
464	8/2/2018	16:40:52	0.0	0.0	0.0	0.0
465	8/2/2018	16:41:52	0.0	0.0	0.0	0.0
466	8/2/2018	16:42:52	0.0	0.0	0.0	0.0
467	8/2/2018	16:43:52	0.0	0.0	0.0	0.0
468	8/2/2018	16:44:52	0.0	0.0	0.0	0.0
469	8/2/2018	16:45:52	0.0	0.0	0.0	0.0
470	8/2/2018	16:46:52	0.0	0.0	0.0	0.0
471	8/2/2018	16:47:52	0.0	0.0	0.0	0.0
472	8/2/2018	16:48:52	0.0	0.0	0.0	0.0
473	8/2/2018	16:49:52	0.0	0.0	0.0	0.0
474	8/2/2018	16:50:52	0.0	0.0	0.0	0.0
475	8/2/2018	16:51:52	0.0	0.0	0.0	0.0
476	8/2/2018	16:52:52	0.0	0.0	0.0	0.0
477	8/2/2018	16:53:52	0.0	0.0	0.0	0.0
478	8/2/2018	16:54:52	0.0	0.0	0.0	0.0
479	8/2/2018	16:55:52	0.0	0.0	0.0	0.0
480	8/2/2018	16:56:52	0.0	0.0	0.0	0.0
481	8/2/2018	16:57:52	0.0	0.0	0.0	0.0
482	8/2/2018	16:58:52	0.0	0.0	0.0	0.0
483	8/2/2018	16:59:52	0.0	0.0	0.0	0.0
484	8/2/2018	17:00:52	0.0	0.0	0.0	0.0
485	8/2/2018	17:01:52	0.0	0.0	0.0	0.0
486	8/2/2018	17:02:52	0.0	0.0	0.0	0.0
Peak		0.0 0.0	0.0	0.0		
Min		0.0 0.0	0.0	0.0		
Average		0.0 0.0	0.0	0.0		

TWA/STEL

Index	Date/Time	PID(ppm) (TWA)	PID(ppm) (STEL)
001	8/2/2018 08:57:52	0.0	---
002	8/2/2018 08:58:52	0.0	---
003	8/2/2018 08:59:52	0.0	---
004	8/2/2018 09:00:52	0.0	---
005	8/2/2018 09:01:52	0.0	---
006	8/2/2018 09:02:52	0.0	---
007	8/2/2018 09:03:52	0.0	---
008	8/2/2018 09:04:52	0.0	---
009	8/2/2018 09:05:52	0.0	---
010	8/2/2018 09:06:52	0.0	---
011	8/2/2018 09:07:52	0.0	---
012	8/2/2018 09:08:52	0.0	---

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013	8/2/2018 09:09:52	0.0	---
014	8/2/2018 09:10:52	0.0	---
015	8/2/2018 09:11:52	0.0	0.0
016	8/2/2018 09:12:52	0.0	0.0
017	8/2/2018 09:13:52	0.0	0.0
018	8/2/2018 09:14:52	0.0	0.0
019	8/2/2018 09:15:52	0.0	0.0
020	8/2/2018 09:16:52	0.0	0.0
021	8/2/2018 09:17:52	0.0	0.0
022	8/2/2018 09:18:52	0.0	0.0
023	8/2/2018 09:19:52	0.0	0.0
024	8/2/2018 09:20:52	0.0	0.0
025	8/2/2018 09:21:52	0.0	0.0
026	8/2/2018 09:22:52	0.0	0.0
027	8/2/2018 09:23:52	0.0	0.0
028	8/2/2018 09:24:52	0.0	0.0
029	8/2/2018 09:25:52	0.0	0.0
030	8/2/2018 09:26:52	0.0	0.0
031	8/2/2018 09:27:52	0.0	0.0
032	8/2/2018 09:28:52	0.0	0.0
033	8/2/2018 09:29:52	0.0	0.0
034	8/2/2018 09:30:52	0.0	0.0
035	8/2/2018 09:31:52	0.0	0.0
036	8/2/2018 09:32:52	0.0	0.0
037	8/2/2018 09:33:52	0.0	0.0
038	8/2/2018 09:34:52	0.0	0.0
039	8/2/2018 09:35:52	0.0	0.0
040	8/2/2018 09:36:52	0.0	0.0
041	8/2/2018 09:37:52	0.0	0.0
042	8/2/2018 09:38:52	0.0	0.0
043	8/2/2018 09:39:52	0.0	0.0
044	8/2/2018 09:40:52	0.0	0.0
045	8/2/2018 09:41:52	0.0	0.0
046	8/2/2018 09:42:52	0.0	0.0
047	8/2/2018 09:43:52	0.0	0.0
048	8/2/2018 09:44:52	0.0	0.0
049	8/2/2018 09:45:52	0.0	0.0
050	8/2/2018 09:46:52	0.0	0.0
051	8/2/2018 09:47:52	0.0	0.0
052	8/2/2018 09:48:52	0.0	0.0
053	8/2/2018 09:49:52	0.0	0.0
054	8/2/2018 09:50:52	0.0	0.0
055	8/2/2018 09:51:52	0.0	0.0
056	8/2/2018 09:52:52	0.0	0.0
057	8/2/2018 09:53:52	0.0	0.0
058	8/2/2018 09:54:52	0.0	0.0
059	8/2/2018 09:55:52	0.0	0.0
060	8/2/2018 09:56:52	0.0	0.0

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061	8/2/2018	09:57:52	0.0	0.0
062	8/2/2018	09:58:52	0.0	0.0
063	8/2/2018	09:59:52	0.0	0.0
064	8/2/2018	10:00:52	0.0	0.0
065	8/2/2018	10:01:52	0.0	0.0
066	8/2/2018	10:02:52	0.0	0.0
067	8/2/2018	10:03:52	0.0	0.0
068	8/2/2018	10:04:52	0.0	0.0
069	8/2/2018	10:05:52	0.0	0.0
070	8/2/2018	10:06:52	0.0	0.0
071	8/2/2018	10:07:52	0.0	0.0
072	8/2/2018	10:08:52	0.0	0.0
073	8/2/2018	10:09:52	0.0	0.0
074	8/2/2018	10:10:52	0.0	0.0
075	8/2/2018	10:11:52	0.0	0.0
076	8/2/2018	10:12:52	0.0	0.0
077	8/2/2018	10:13:52	0.0	0.0
078	8/2/2018	10:14:52	0.0	0.0
079	8/2/2018	10:15:52	0.0	0.0
080	8/2/2018	10:16:52	0.0	0.0
081	8/2/2018	10:17:52	0.0	0.0
082	8/2/2018	10:18:52	0.0	0.0
083	8/2/2018	10:19:52	0.0	0.0
084	8/2/2018	10:20:52	0.0	0.0
085	8/2/2018	10:21:52	0.0	0.0
086	8/2/2018	10:22:52	0.0	0.0
087	8/2/2018	10:23:52	0.0	0.0
088	8/2/2018	10:24:52	0.0	0.0
089	8/2/2018	10:25:52	0.0	0.0
090	8/2/2018	10:26:52	0.0	0.0
091	8/2/2018	10:27:52	0.0	0.0
092	8/2/2018	10:28:52	0.0	0.0
093	8/2/2018	10:29:52	0.0	0.0
094	8/2/2018	10:30:52	0.0	0.0
095	8/2/2018	10:31:52	0.0	0.0
096	8/2/2018	10:32:52	0.0	0.0
097	8/2/2018	10:33:52	0.0	0.0
098	8/2/2018	10:34:52	0.0	0.0
099	8/2/2018	10:35:52	0.0	0.0
100	8/2/2018	10:36:52	0.0	0.0
101	8/2/2018	10:37:52	0.0	0.0
102	8/2/2018	10:38:52	0.0	0.0
103	8/2/2018	10:39:52	0.0	0.0
104	8/2/2018	10:40:52	0.0	0.0
105	8/2/2018	10:41:52	0.0	0.0
106	8/2/2018	10:42:52	0.0	0.0
107	8/2/2018	10:43:52	0.0	0.0
108	8/2/2018	10:44:52	0.0	0.0

109	8/2/2018	10:45:52	0.0	0.0
110	8/2/2018	10:46:52	0.0	0.0
111	8/2/2018	10:47:52	0.0	0.0
112	8/2/2018	10:48:52	0.0	0.0
113	8/2/2018	10:49:52	0.0	0.0
114	8/2/2018	10:50:52	0.0	0.0
115	8/2/2018	10:51:52	0.0	0.0
116	8/2/2018	10:52:52	0.0	0.0
117	8/2/2018	10:53:52	0.0	0.0
118	8/2/2018	10:54:52	0.0	0.0
119	8/2/2018	10:55:52	0.0	0.0
120	8/2/2018	10:56:52	0.0	0.0
121	8/2/2018	10:57:52	0.0	0.0
122	8/2/2018	10:58:52	0.0	0.0
123	8/2/2018	10:59:52	0.0	0.0
124	8/2/2018	11:00:52	0.0	0.0
125	8/2/2018	11:01:52	0.0	0.0
126	8/2/2018	11:02:52	0.0	0.0
127	8/2/2018	11:03:52	0.0	0.0
128	8/2/2018	11:04:52	0.0	0.0
129	8/2/2018	11:05:52	0.0	0.0
130	8/2/2018	11:06:52	0.0	0.0
131	8/2/2018	11:07:52	0.0	0.0
132	8/2/2018	11:08:52	0.0	0.0
133	8/2/2018	11:09:52	0.0	0.0
134	8/2/2018	11:10:52	0.0	0.0
135	8/2/2018	11:11:52	0.0	0.0
136	8/2/2018	11:12:52	0.0	0.0
137	8/2/2018	11:13:52	0.0	0.0
138	8/2/2018	11:14:52	0.0	0.0
139	8/2/2018	11:15:52	0.0	0.0
140	8/2/2018	11:16:52	0.0	0.0
141	8/2/2018	11:17:52	0.0	0.0
142	8/2/2018	11:18:52	0.0	0.0
143	8/2/2018	11:19:52	0.0	0.0
144	8/2/2018	11:20:52	0.0	0.0
145	8/2/2018	11:21:52	0.0	0.0
146	8/2/2018	11:22:52	0.0	0.0
147	8/2/2018	11:23:52	0.0	0.0
148	8/2/2018	11:24:52	0.0	0.0
149	8/2/2018	11:25:52	0.0	0.0
150	8/2/2018	11:26:52	0.0	0.0
151	8/2/2018	11:27:52	0.0	0.0
152	8/2/2018	11:28:52	0.0	0.0
153	8/2/2018	11:29:52	0.0	0.0
154	8/2/2018	11:30:52	0.0	0.0
155	8/2/2018	11:31:52	0.0	0.0
156	8/2/2018	11:32:52	0.0	0.0

157	8/2/2018	11:33:52	0.0	0.0
158	8/2/2018	11:34:52	0.0	0.0
159	8/2/2018	11:35:52	0.0	0.0
160	8/2/2018	11:36:52	0.0	0.0
161	8/2/2018	11:37:52	0.0	0.0
162	8/2/2018	11:38:52	0.0	0.0
163	8/2/2018	11:39:52	0.0	0.0
164	8/2/2018	11:40:52	0.0	0.0
165	8/2/2018	11:41:52	0.0	0.0
166	8/2/2018	11:42:52	0.0	0.0
167	8/2/2018	11:43:52	0.0	0.0
168	8/2/2018	11:44:52	0.0	0.0
169	8/2/2018	11:45:52	0.0	0.0
170	8/2/2018	11:46:52	0.0	0.0
171	8/2/2018	11:47:52	0.0	0.0
172	8/2/2018	11:48:52	0.0	0.0
173	8/2/2018	11:49:52	0.0	0.0
174	8/2/2018	11:50:52	0.0	0.0
175	8/2/2018	11:51:52	0.0	0.0
176	8/2/2018	11:52:52	0.0	0.0
177	8/2/2018	11:53:52	0.0	0.0
178	8/2/2018	11:54:52	0.0	0.0
179	8/2/2018	11:55:52	0.0	0.0
180	8/2/2018	11:56:52	0.0	0.0
181	8/2/2018	11:57:52	0.0	0.0
182	8/2/2018	11:58:52	0.0	0.0
183	8/2/2018	11:59:52	0.0	0.0
184	8/2/2018	12:00:52	0.0	0.0
185	8/2/2018	12:01:52	0.0	0.0
186	8/2/2018	12:02:52	0.0	0.0
187	8/2/2018	12:03:52	0.0	0.0
188	8/2/2018	12:04:52	0.0	0.0
189	8/2/2018	12:05:52	0.0	0.0
190	8/2/2018	12:06:52	0.0	0.0
191	8/2/2018	12:07:52	0.0	0.0
192	8/2/2018	12:08:52	0.0	0.0
193	8/2/2018	12:09:52	0.0	0.0
194	8/2/2018	12:10:52	0.0	0.0
195	8/2/2018	12:11:52	0.0	0.0
196	8/2/2018	12:12:52	0.0	0.0
197	8/2/2018	12:13:52	0.0	0.0
198	8/2/2018	12:14:52	0.0	0.0
199	8/2/2018	12:15:52	0.0	0.0
200	8/2/2018	12:16:52	0.0	0.0
201	8/2/2018	12:17:52	0.0	0.0
202	8/2/2018	12:18:52	0.0	0.0
203	8/2/2018	12:19:52	0.0	0.0
204	8/2/2018	12:20:52	0.0	0.0

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205	8/2/2018	12:21:52	0.0	0.0
206	8/2/2018	12:22:52	0.0	0.0
207	8/2/2018	12:23:52	0.0	0.0
208	8/2/2018	12:24:52	0.0	0.0
209	8/2/2018	12:25:52	0.0	0.0
210	8/2/2018	12:26:52	0.0	0.0
211	8/2/2018	12:27:52	0.0	0.0
212	8/2/2018	12:28:52	0.0	0.0
213	8/2/2018	12:29:52	0.0	0.0
214	8/2/2018	12:30:52	0.0	0.0
215	8/2/2018	12:31:52	0.0	0.0
216	8/2/2018	12:32:52	0.0	0.0
217	8/2/2018	12:33:52	0.0	0.0
218	8/2/2018	12:34:52	0.0	0.0
219	8/2/2018	12:35:52	0.0	0.0
220	8/2/2018	12:36:52	0.0	0.0
221	8/2/2018	12:37:52	0.0	0.0
222	8/2/2018	12:38:52	0.0	0.0
223	8/2/2018	12:39:52	0.0	0.0
224	8/2/2018	12:40:52	0.0	0.0
225	8/2/2018	12:41:52	0.0	0.0
226	8/2/2018	12:42:52	0.0	0.0
227	8/2/2018	12:43:52	0.0	0.0
228	8/2/2018	12:44:52	0.0	0.0
229	8/2/2018	12:45:52	0.0	0.0
230	8/2/2018	12:46:52	0.0	0.0
231	8/2/2018	12:47:52	0.0	0.0
232	8/2/2018	12:48:52	0.0	0.0
233	8/2/2018	12:49:52	0.0	0.0
234	8/2/2018	12:50:52	0.0	0.0
235	8/2/2018	12:51:52	0.0	0.0
236	8/2/2018	12:52:52	0.0	0.0
237	8/2/2018	12:53:52	0.0	0.0
238	8/2/2018	12:54:52	0.0	0.0
239	8/2/2018	12:55:52	0.0	0.0
240	8/2/2018	12:56:52	0.0	0.0
241	8/2/2018	12:57:52	0.0	0.0
242	8/2/2018	12:58:52	0.0	0.0
243	8/2/2018	12:59:52	0.0	0.0
244	8/2/2018	13:00:52	0.0	0.0
245	8/2/2018	13:01:52	0.0	0.0
246	8/2/2018	13:02:52	0.0	0.0
247	8/2/2018	13:03:52	0.0	0.0
248	8/2/2018	13:04:52	0.0	0.0
249	8/2/2018	13:05:52	0.0	0.0
250	8/2/2018	13:06:52	0.0	0.0
251	8/2/2018	13:07:52	0.0	0.0
252	8/2/2018	13:08:52	0.0	0.0

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253	8/2/2018	13:09:52	0.0	0.0
254	8/2/2018	13:10:52	0.0	0.0
255	8/2/2018	13:11:52	0.0	0.0
256	8/2/2018	13:12:52	0.0	0.0
257	8/2/2018	13:13:52	0.0	0.0
258	8/2/2018	13:14:52	0.0	0.0
259	8/2/2018	13:15:52	0.0	0.0
260	8/2/2018	13:16:52	0.0	0.0
261	8/2/2018	13:17:52	0.0	0.0
262	8/2/2018	13:18:52	0.0	0.0
263	8/2/2018	13:19:52	0.0	0.0
264	8/2/2018	13:20:52	0.0	0.0
265	8/2/2018	13:21:52	0.0	0.0
266	8/2/2018	13:22:52	0.0	0.0
267	8/2/2018	13:23:52	0.0	0.0
268	8/2/2018	13:24:52	0.0	0.0
269	8/2/2018	13:25:52	0.0	0.0
270	8/2/2018	13:26:52	0.0	0.0
271	8/2/2018	13:27:52	0.0	0.0
272	8/2/2018	13:28:52	0.0	0.0
273	8/2/2018	13:29:52	0.0	0.0
274	8/2/2018	13:30:52	0.0	0.0
275	8/2/2018	13:31:52	0.0	0.0
276	8/2/2018	13:32:52	0.0	0.0
277	8/2/2018	13:33:52	0.0	0.0
278	8/2/2018	13:34:52	0.0	0.0
279	8/2/2018	13:35:52	0.0	0.0
280	8/2/2018	13:36:52	0.0	0.0
281	8/2/2018	13:37:52	0.0	0.0
282	8/2/2018	13:38:52	0.0	0.0
283	8/2/2018	13:39:52	0.0	0.0
284	8/2/2018	13:40:52	0.0	0.0
285	8/2/2018	13:41:52	0.0	0.0
286	8/2/2018	13:42:52	0.0	0.0
287	8/2/2018	13:43:52	0.0	0.0
288	8/2/2018	13:44:52	0.0	0.0
289	8/2/2018	13:45:52	0.0	0.0
290	8/2/2018	13:46:52	0.0	0.0
291	8/2/2018	13:47:52	0.0	0.0
292	8/2/2018	13:48:52	0.0	0.0
293	8/2/2018	13:49:52	0.0	0.0
294	8/2/2018	13:50:52	0.0	0.0
295	8/2/2018	13:51:52	0.0	0.0
296	8/2/2018	13:52:52	0.0	0.0
297	8/2/2018	13:53:52	0.0	0.0
298	8/2/2018	13:54:52	0.0	0.0
299	8/2/2018	13:55:52	0.0	0.0
300	8/2/2018	13:56:52	0.0	0.0

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301	8/2/2018	13:57:52	0.0	0.0
302	8/2/2018	13:58:52	0.0	0.0
303	8/2/2018	13:59:52	0.0	0.0
304	8/2/2018	14:00:52	0.0	0.0
305	8/2/2018	14:01:52	0.0	0.0
306	8/2/2018	14:02:52	0.0	0.0
307	8/2/2018	14:03:52	0.0	0.0
308	8/2/2018	14:04:52	0.0	0.0
309	8/2/2018	14:05:52	0.0	0.0
310	8/2/2018	14:06:52	0.0	0.0
311	8/2/2018	14:07:52	0.0	0.0
312	8/2/2018	14:08:52	0.0	0.0
313	8/2/2018	14:09:52	0.0	0.0
314	8/2/2018	14:10:52	0.0	0.0
315	8/2/2018	14:11:52	0.0	0.0
316	8/2/2018	14:12:52	0.0	0.0
317	8/2/2018	14:13:52	0.0	0.0
318	8/2/2018	14:14:52	0.0	0.0
319	8/2/2018	14:15:52	0.0	0.0
320	8/2/2018	14:16:52	0.0	0.0
321	8/2/2018	14:17:52	0.0	0.0
322	8/2/2018	14:18:52	0.0	0.0
323	8/2/2018	14:19:52	0.0	0.0
324	8/2/2018	14:20:52	0.0	0.0
325	8/2/2018	14:21:52	0.0	0.0
326	8/2/2018	14:22:52	0.0	0.0
327	8/2/2018	14:23:52	0.0	0.0
328	8/2/2018	14:24:52	0.0	0.0
329	8/2/2018	14:25:52	0.0	0.0
330	8/2/2018	14:26:52	0.0	0.0
331	8/2/2018	14:27:52	0.0	0.0
332	8/2/2018	14:28:52	0.0	0.0
333	8/2/2018	14:29:52	0.0	0.0
334	8/2/2018	14:30:52	0.0	0.0
335	8/2/2018	14:31:52	0.0	0.0
336	8/2/2018	14:32:52	0.0	0.0
337	8/2/2018	14:33:52	0.0	0.0
338	8/2/2018	14:34:52	0.0	0.0
339	8/2/2018	14:35:52	0.0	0.0
340	8/2/2018	14:36:52	0.0	0.0
341	8/2/2018	14:37:52	0.0	0.0
342	8/2/2018	14:38:52	0.0	0.0
343	8/2/2018	14:39:52	0.0	0.0
344	8/2/2018	14:40:52	0.0	0.0
345	8/2/2018	14:41:52	0.0	0.0
346	8/2/2018	14:42:52	0.0	0.0
347	8/2/2018	14:43:52	0.0	0.0
348	8/2/2018	14:44:52	0.0	0.0

349	8/2/2018	14:45:52	0.0	0.0
350	8/2/2018	14:46:52	0.0	0.0
351	8/2/2018	14:47:52	0.0	0.0
352	8/2/2018	14:48:52	0.0	0.0
353	8/2/2018	14:49:52	0.0	0.0
354	8/2/2018	14:50:52	0.0	0.0
355	8/2/2018	14:51:52	0.0	0.0
356	8/2/2018	14:52:52	0.0	0.0
357	8/2/2018	14:53:52	0.0	0.0
358	8/2/2018	14:54:52	0.0	0.0
359	8/2/2018	14:55:52	0.0	0.0
360	8/2/2018	14:56:52	0.0	0.0
361	8/2/2018	14:57:52	0.0	0.0
362	8/2/2018	14:58:52	0.0	0.0
363	8/2/2018	14:59:52	0.0	0.0
364	8/2/2018	15:00:52	0.0	0.0
365	8/2/2018	15:01:52	0.0	0.0
366	8/2/2018	15:02:52	0.0	0.0
367	8/2/2018	15:03:52	0.0	0.0
368	8/2/2018	15:04:52	0.0	0.0
369	8/2/2018	15:05:52	0.0	0.0
370	8/2/2018	15:06:52	0.0	0.0
371	8/2/2018	15:07:52	0.0	0.0
372	8/2/2018	15:08:52	0.0	0.0
373	8/2/2018	15:09:52	0.0	0.0
374	8/2/2018	15:10:52	0.0	0.0
375	8/2/2018	15:11:52	0.0	0.0
376	8/2/2018	15:12:52	0.0	0.0
377	8/2/2018	15:13:52	0.0	0.0
378	8/2/2018	15:14:52	0.0	0.0
379	8/2/2018	15:15:52	0.0	0.0
380	8/2/2018	15:16:52	0.0	0.0
381	8/2/2018	15:17:52	0.0	0.0
382	8/2/2018	15:18:52	0.0	0.0
383	8/2/2018	15:19:52	0.0	0.0
384	8/2/2018	15:20:52	0.0	0.0
385	8/2/2018	15:21:52	0.0	0.0
386	8/2/2018	15:22:52	0.0	0.0
387	8/2/2018	15:23:52	0.0	0.0
388	8/2/2018	15:24:52	0.0	0.0
389	8/2/2018	15:25:52	0.0	0.0
390	8/2/2018	15:26:52	0.0	0.0
391	8/2/2018	15:27:52	0.0	0.0
392	8/2/2018	15:28:52	0.0	0.0
393	8/2/2018	15:29:52	0.0	0.0
394	8/2/2018	15:30:52	0.0	0.0
395	8/2/2018	15:31:52	0.0	0.0
396	8/2/2018	15:32:52	0.0	0.0

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397	8/2/2018	15:33:52	0.0	0.0
398	8/2/2018	15:34:52	0.0	0.0
399	8/2/2018	15:35:52	0.0	0.0
400	8/2/2018	15:36:52	0.0	0.0
401	8/2/2018	15:37:52	0.0	0.0
402	8/2/2018	15:38:52	0.0	0.0
403	8/2/2018	15:39:52	0.0	0.0
404	8/2/2018	15:40:52	0.0	0.0
405	8/2/2018	15:41:52	0.0	0.0
406	8/2/2018	15:42:52	0.0	0.0
407	8/2/2018	15:43:52	0.0	0.0
408	8/2/2018	15:44:52	0.0	0.0
409	8/2/2018	15:45:52	0.0	0.0
410	8/2/2018	15:46:52	0.0	0.0
411	8/2/2018	15:47:52	0.0	0.0
412	8/2/2018	15:48:52	0.0	0.0
413	8/2/2018	15:49:52	0.0	0.0
414	8/2/2018	15:50:52	0.0	0.0
415	8/2/2018	15:51:52	0.0	0.0
416	8/2/2018	15:52:52	0.0	0.0
417	8/2/2018	15:53:52	0.0	0.0
418	8/2/2018	15:54:52	0.0	0.0
419	8/2/2018	15:55:52	0.0	0.0
420	8/2/2018	15:56:52	0.0	0.0
421	8/2/2018	15:57:52	0.0	0.0
422	8/2/2018	15:58:52	0.0	0.0
423	8/2/2018	15:59:52	0.0	0.0
424	8/2/2018	16:00:52	0.0	0.0
425	8/2/2018	16:01:52	0.0	0.0
426	8/2/2018	16:02:52	0.0	0.0
427	8/2/2018	16:03:52	0.0	0.0
428	8/2/2018	16:04:52	0.0	0.0
429	8/2/2018	16:05:52	0.0	0.0
430	8/2/2018	16:06:52	0.0	0.0
431	8/2/2018	16:07:52	0.0	0.0
432	8/2/2018	16:08:52	0.0	0.0
433	8/2/2018	16:09:52	0.0	0.0
434	8/2/2018	16:10:52	0.0	0.0
435	8/2/2018	16:11:52	0.0	0.0
436	8/2/2018	16:12:52	0.0	0.0
437	8/2/2018	16:13:52	0.0	0.0
438	8/2/2018	16:14:52	0.0	0.0
439	8/2/2018	16:15:52	0.0	0.0
440	8/2/2018	16:16:52	0.0	0.0
441	8/2/2018	16:17:52	0.0	0.0
442	8/2/2018	16:18:52	0.0	0.0
443	8/2/2018	16:19:52	0.0	0.0
444	8/2/2018	16:20:52	0.0	0.0

445	8/2/2018	16:21:52	0.0	0.0
446	8/2/2018	16:22:52	0.0	0.0
447	8/2/2018	16:23:52	0.0	0.0
448	8/2/2018	16:24:52	0.0	0.0
449	8/2/2018	16:25:52	0.0	0.0
450	8/2/2018	16:26:52	0.0	0.0
451	8/2/2018	16:27:52	0.0	0.0
452	8/2/2018	16:28:52	0.0	0.0
453	8/2/2018	16:29:52	0.0	0.0
454	8/2/2018	16:30:52	0.0	0.0
455	8/2/2018	16:31:52	0.0	0.0
456	8/2/2018	16:32:52	0.0	0.0
457	8/2/2018	16:33:52	0.0	0.0
458	8/2/2018	16:34:52	0.0	0.0
459	8/2/2018	16:35:52	0.0	0.0
460	8/2/2018	16:36:52	0.0	0.0
461	8/2/2018	16:37:52	0.0	0.0
462	8/2/2018	16:38:52	0.0	0.0
463	8/2/2018	16:39:52	0.0	0.0
464	8/2/2018	16:40:52	0.0	0.0
465	8/2/2018	16:41:52	0.0	0.0
466	8/2/2018	16:42:52	0.0	0.0
467	8/2/2018	16:43:52	0.0	0.0
468	8/2/2018	16:44:52	0.0	0.0
469	8/2/2018	16:45:52	0.0	0.0
470	8/2/2018	16:46:52	0.0	0.0
471	8/2/2018	16:47:52	0.0	0.0
472	8/2/2018	16:48:52	0.0	0.0
473	8/2/2018	16:49:52	0.0	0.0
474	8/2/2018	16:50:52	0.0	0.0
475	8/2/2018	16:51:52	0.0	0.0
476	8/2/2018	16:52:52	0.0	0.0
477	8/2/2018	16:53:52	0.0	0.0
478	8/2/2018	16:54:52	0.0	0.0
479	8/2/2018	16:55:52	0.0	0.0
480	8/2/2018	16:56:52	0.0	0.0
481	8/2/2018	16:57:52	0.0	0.0
482	8/2/2018	16:58:52	0.0	0.0
483	8/2/2018	16:59:52	0.0	0.0
484	8/2/2018	17:00:52	0.0	0.0
485	8/2/2018	17:01:52	0.0	0.0
486	8/2/2018	17:02:52	0.0	0.0

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18/08/03 09:11

Summary

Unit Name MiniRAE 3000(PGM-7320)

Unit SN 592-919975
Unit Firmware Ver V2.14

Running Mode Hygiene Mode
Datalog Mode Manual
Diagnostic Mode No
Stop Reason Power Down

Site ID RAE00000
User ID UW000000

Begin 8/3/2018 09:11:50
End 8/3/2018 11:33:07
Sample Period(s) 60
Number of Records 141

Sensor PID(ppm)
Sensor SN S023030116U2
Measure Type Min; Avg; Max; Real
Span 100.0
Span 2 1000.0
Low Alarm 50.0
High Alarm 100.0
Over Alarm 15000.0
STEL Alarm 25.0
TWA Alarm 10.0
Measurement Gas Isobutylene
Calibration Time 8/3/2018 08:25
Peak 0.0
Min 0.0
Average 0.0

Datalog

Index	Date/Time	PID(ppm) (Min)	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)	PID(ppm)
001	8/3/2018 09:12:50	0.0	0.0	0.0	0.0	0.0
002	8/3/2018 09:13:50	0.0	0.0	0.0	0.0	0.0
003	8/3/2018 09:14:50	0.0	0.0	0.0	0.0	0.0
004	8/3/2018 09:15:50	0.0	0.0	0.0	0.0	0.0
005	8/3/2018 09:16:50	0.0	0.0	0.0	0.0	0.0
006	8/3/2018 09:17:50	0.0	0.0	0.0	0.0	0.0
007	8/3/2018 09:18:50	0.0	0.0	0.0	0.0	0.0
008	8/3/2018 09:19:50	0.0	0.0	0.0	0.0	0.0
009	8/3/2018 09:20:50	0.0	0.0	0.0	0.0	0.0
010	8/3/2018 09:21:50	0.0	0.0	0.0	0.0	0.0
011	8/3/2018 09:22:50	0.0	0.0	0.0	0.0	0.0
012	8/3/2018 09:23:50	0.0	0.0	0.0	0.0	0.0

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013	8/3/2018 09:24:50	0.0	0.0	0.0	0.0
014	8/3/2018 09:25:50	0.0	0.0	0.0	0.0
015	8/3/2018 09:26:50	0.0	0.0	0.0	0.0
016	8/3/2018 09:27:50	0.0	0.0	0.0	0.0
017	8/3/2018 09:28:50	0.0	0.0	0.0	0.0
018	8/3/2018 09:29:50	0.0	0.0	0.0	0.0
019	8/3/2018 09:30:50	0.0	0.0	0.0	0.0
020	8/3/2018 09:31:50	0.0	0.0	0.0	0.0
021	8/3/2018 09:32:50	0.0	0.0	0.0	0.0
022	8/3/2018 09:33:50	0.0	0.0	0.0	0.0
023	8/3/2018 09:34:50	0.0	0.0	0.0	0.0
024	8/3/2018 09:35:50	0.0	0.0	0.0	0.0
025	8/3/2018 09:36:50	0.0	0.0	0.0	0.0
026	8/3/2018 09:37:50	0.0	0.0	0.0	0.0
027	8/3/2018 09:38:50	0.0	0.0	0.0	0.0
028	8/3/2018 09:39:50	0.0	0.0	0.0	0.0
029	8/3/2018 09:40:50	0.0	0.0	0.0	0.0
030	8/3/2018 09:41:50	0.0	0.0	0.0	0.0
031	8/3/2018 09:42:50	0.0	0.0	0.0	0.0
032	8/3/2018 09:43:50	0.0	0.0	0.0	0.0
033	8/3/2018 09:44:50	0.0	0.0	0.0	0.0
034	8/3/2018 09:45:50	0.0	0.0	0.0	0.0
035	8/3/2018 09:46:50	0.0	0.0	0.0	0.0
036	8/3/2018 09:47:50	0.0	0.0	0.0	0.0
037	8/3/2018 09:48:50	0.0	0.0	0.0	0.0
038	8/3/2018 09:49:50	0.0	0.0	0.0	0.0
039	8/3/2018 09:50:50	0.0	0.0	0.0	0.0
040	8/3/2018 09:51:50	0.0	0.0	0.0	0.0
041	8/3/2018 09:52:50	0.0	0.0	0.0	0.0
042	8/3/2018 09:53:50	0.0	0.0	0.0	0.0
043	8/3/2018 09:54:50	0.0	0.0	0.0	0.0
044	8/3/2018 09:55:50	0.0	0.0	0.0	0.0
045	8/3/2018 09:56:50	0.0	0.0	0.0	0.0
046	8/3/2018 09:57:50	0.0	0.0	0.0	0.0
047	8/3/2018 09:58:50	0.0	0.0	0.0	0.0
048	8/3/2018 09:59:50	0.0	0.0	0.0	0.0
049	8/3/2018 10:00:50	0.0	0.0	0.0	0.0
050	8/3/2018 10:01:50	0.0	0.0	0.0	0.0
051	8/3/2018 10:02:50	0.0	0.0	0.0	0.0
052	8/3/2018 10:03:50	0.0	0.0	0.0	0.0
053	8/3/2018 10:04:50	0.0	0.0	0.0	0.0
054	8/3/2018 10:05:50	0.0	0.0	0.0	0.0
055	8/3/2018 10:06:50	0.0	0.0	0.0	0.0
056	8/3/2018 10:07:50	0.0	0.0	0.0	0.0
057	8/3/2018 10:08:50	0.0	0.0	0.0	0.0
058	8/3/2018 10:09:50	0.0	0.0	0.0	0.0
059	8/3/2018 10:10:50	0.0	0.0	0.0	0.0
060	8/3/2018 10:11:50	0.0	0.0	0.0	0.0

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061	8/3/2018	10:12:50	0.0	0.0	0.0	0.0
062	8/3/2018	10:13:50	0.0	0.0	0.0	0.0
063	8/3/2018	10:14:50	0.0	0.0	0.0	0.0
064	8/3/2018	10:15:50	0.0	0.0	0.0	0.0
065	8/3/2018	10:16:50	0.0	0.0	0.0	0.0
066	8/3/2018	10:17:50	0.0	0.0	0.0	0.0
067	8/3/2018	10:18:50	0.0	0.0	0.0	0.0
068	8/3/2018	10:19:50	0.0	0.0	0.0	0.0
069	8/3/2018	10:20:50	0.0	0.0	0.0	0.0
070	8/3/2018	10:21:50	0.0	0.0	0.0	0.0
071	8/3/2018	10:22:50	0.0	0.0	0.0	0.0
072	8/3/2018	10:23:50	0.0	0.0	0.0	0.0
073	8/3/2018	10:24:50	0.0	0.0	0.0	0.0
074	8/3/2018	10:25:50	0.0	0.0	0.0	0.0
075	8/3/2018	10:26:50	0.0	0.0	0.0	0.0
076	8/3/2018	10:27:50	0.0	0.0	0.0	0.0
077	8/3/2018	10:28:50	0.0	0.0	0.0	0.0
078	8/3/2018	10:29:50	0.0	0.0	0.0	0.0
079	8/3/2018	10:30:50	0.0	0.0	0.0	0.0
080	8/3/2018	10:31:50	0.0	0.0	0.0	0.0
081	8/3/2018	10:32:50	0.0	0.0	0.0	0.0
082	8/3/2018	10:33:50	0.0	0.0	0.0	0.0
083	8/3/2018	10:34:50	0.0	0.0	0.0	0.0
084	8/3/2018	10:35:50	0.0	0.0	0.0	0.0
085	8/3/2018	10:36:50	0.0	0.0	0.0	0.0
086	8/3/2018	10:37:50	0.0	0.0	0.0	0.0
087	8/3/2018	10:38:50	0.0	0.0	0.0	0.0
088	8/3/2018	10:39:50	0.0	0.0	0.0	0.0
089	8/3/2018	10:40:50	0.0	0.0	0.0	0.0
090	8/3/2018	10:41:50	0.0	0.0	0.0	0.0
091	8/3/2018	10:42:50	0.0	0.0	0.0	0.0
092	8/3/2018	10:43:50	0.0	0.0	0.0	0.0
093	8/3/2018	10:44:50	0.0	0.0	0.0	0.0
094	8/3/2018	10:45:50	0.0	0.0	0.0	0.0
095	8/3/2018	10:46:50	0.0	0.0	0.0	0.0
096	8/3/2018	10:47:50	0.0	0.0	0.0	0.0
097	8/3/2018	10:48:50	0.0	0.0	0.0	0.0
098	8/3/2018	10:49:50	0.0	0.0	0.0	0.0
099	8/3/2018	10:50:50	0.0	0.0	0.0	0.0
100	8/3/2018	10:51:50	0.0	0.0	0.0	0.0
101	8/3/2018	10:52:50	0.0	0.0	0.0	0.0
102	8/3/2018	10:53:50	0.0	0.0	0.0	0.0
103	8/3/2018	10:54:50	0.0	0.0	0.0	0.0
104	8/3/2018	10:55:50	0.0	0.0	0.0	0.0
105	8/3/2018	10:56:50	0.0	0.0	0.0	0.0
106	8/3/2018	10:57:50	0.0	0.0	0.0	0.0
107	8/3/2018	10:58:50	0.0	0.0	0.0	0.0
108	8/3/2018	10:59:50	0.0	0.0	0.0	0.0

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109	8/3/2018	11:00:50	0.0	0.0	0.0	0.0
110	8/3/2018	11:01:50	0.0	0.0	0.0	0.0
111	8/3/2018	11:02:50	0.0	0.0	0.0	0.0
112	8/3/2018	11:03:50	0.0	0.0	0.0	0.0
113	8/3/2018	11:04:50	0.0	0.0	0.0	0.0
114	8/3/2018	11:05:50	0.0	0.0	0.0	0.0
115	8/3/2018	11:06:50	0.0	0.0	0.0	0.0
116	8/3/2018	11:07:50	0.0	0.0	0.0	0.0
117	8/3/2018	11:08:50	0.0	0.0	0.0	0.0
118	8/3/2018	11:09:50	0.0	0.0	0.0	0.0
119	8/3/2018	11:10:50	0.0	0.0	0.0	0.0
120	8/3/2018	11:11:50	0.0	0.0	0.0	0.0
121	8/3/2018	11:12:50	0.0	0.0	0.0	0.0
122	8/3/2018	11:13:50	0.0	0.0	0.0	0.0
123	8/3/2018	11:14:50	0.0	0.0	0.0	0.0
124	8/3/2018	11:15:50	0.0	0.0	0.0	0.0
125	8/3/2018	11:16:50	0.0	0.0	0.0	0.0
126	8/3/2018	11:17:50	0.0	0.0	0.0	0.0
127	8/3/2018	11:18:50	0.0	0.0	0.0	0.0
128	8/3/2018	11:19:50	0.0	0.0	0.0	0.0
129	8/3/2018	11:20:50	0.0	0.0	0.0	0.0
130	8/3/2018	11:21:50	0.0	0.0	0.0	0.0
131	8/3/2018	11:22:50	0.0	0.0	0.0	0.0
132	8/3/2018	11:23:50	0.0	0.0	0.0	0.0
133	8/3/2018	11:24:50	0.0	0.0	0.0	0.0
134	8/3/2018	11:25:50	0.0	0.0	0.0	0.0
135	8/3/2018	11:26:50	0.0	0.0	0.0	0.0
136	8/3/2018	11:27:50	0.0	0.0	0.0	0.0
137	8/3/2018	11:28:50	0.0	0.0	0.0	0.0
138	8/3/2018	11:29:50	0.0	0.0	0.0	0.0
139	8/3/2018	11:30:50	0.0	0.0	0.0	0.0
140	8/3/2018	11:31:50	0.0	0.0	0.0	0.0
141	8/3/2018	11:32:50	0.0	0.0	0.0	0.0
Peak		0.0	0.0	0.0	0.0	
Min		0.0	0.0	0.0	0.0	
Average		0.0	0.0	0.0	0.0	

TWA/STEL

Index	Date/Time	PID(ppm) (TWA)	PID(ppm) (STEL)
001	8/3/2018 09:12:50	0.0	---
002	8/3/2018 09:13:50	0.0	---
003	8/3/2018 09:14:50	0.0	---
004	8/3/2018 09:15:50	0.0	---
005	8/3/2018 09:16:50	0.0	---
006	8/3/2018 09:17:50	0.0	---
007	8/3/2018 09:18:50	0.0	---

PRS_EXPORT_20181119.txt38160

008	8/3/2018 09:19:50	0.0	---
009	8/3/2018 09:20:50	0.0	---
010	8/3/2018 09:21:50	0.0	---
011	8/3/2018 09:22:50	0.0	---
012	8/3/2018 09:23:50	0.0	---
013	8/3/2018 09:24:50	0.0	---
014	8/3/2018 09:25:50	0.0	---
015	8/3/2018 09:26:50	0.0	0.0
016	8/3/2018 09:27:50	0.0	0.0
017	8/3/2018 09:28:50	0.0	0.0
018	8/3/2018 09:29:50	0.0	0.0
019	8/3/2018 09:30:50	0.0	0.0
020	8/3/2018 09:31:50	0.0	0.0
021	8/3/2018 09:32:50	0.0	0.0
022	8/3/2018 09:33:50	0.0	0.0
023	8/3/2018 09:34:50	0.0	0.0
024	8/3/2018 09:35:50	0.0	0.0
025	8/3/2018 09:36:50	0.0	0.0
026	8/3/2018 09:37:50	0.0	0.0
027	8/3/2018 09:38:50	0.0	0.0
028	8/3/2018 09:39:50	0.0	0.0
029	8/3/2018 09:40:50	0.0	0.0
030	8/3/2018 09:41:50	0.0	0.0
031	8/3/2018 09:42:50	0.0	0.0
032	8/3/2018 09:43:50	0.0	0.0
033	8/3/2018 09:44:50	0.0	0.0
034	8/3/2018 09:45:50	0.0	0.0
035	8/3/2018 09:46:50	0.0	0.0
036	8/3/2018 09:47:50	0.0	0.0
037	8/3/2018 09:48:50	0.0	0.0
038	8/3/2018 09:49:50	0.0	0.0
039	8/3/2018 09:50:50	0.0	0.0
040	8/3/2018 09:51:50	0.0	0.0
041	8/3/2018 09:52:50	0.0	0.0
042	8/3/2018 09:53:50	0.0	0.0
043	8/3/2018 09:54:50	0.0	0.0
044	8/3/2018 09:55:50	0.0	0.0
045	8/3/2018 09:56:50	0.0	0.0
046	8/3/2018 09:57:50	0.0	0.0
047	8/3/2018 09:58:50	0.0	0.0
048	8/3/2018 09:59:50	0.0	0.0
049	8/3/2018 10:00:50	0.0	0.0
050	8/3/2018 10:01:50	0.0	0.0
051	8/3/2018 10:02:50	0.0	0.0
052	8/3/2018 10:03:50	0.0	0.0
053	8/3/2018 10:04:50	0.0	0.0
054	8/3/2018 10:05:50	0.0	0.0
055	8/3/2018 10:06:50	0.0	0.0

PRS_EXPORT_20181119.txt38160

056	8/3/2018	10:07:50	0.0	0.0
057	8/3/2018	10:08:50	0.0	0.0
058	8/3/2018	10:09:50	0.0	0.0
059	8/3/2018	10:10:50	0.0	0.0
060	8/3/2018	10:11:50	0.0	0.0
061	8/3/2018	10:12:50	0.0	0.0
062	8/3/2018	10:13:50	0.0	0.0
063	8/3/2018	10:14:50	0.0	0.0
064	8/3/2018	10:15:50	0.0	0.0
065	8/3/2018	10:16:50	0.0	0.0
066	8/3/2018	10:17:50	0.0	0.0
067	8/3/2018	10:18:50	0.0	0.0
068	8/3/2018	10:19:50	0.0	0.0
069	8/3/2018	10:20:50	0.0	0.0
070	8/3/2018	10:21:50	0.0	0.0
071	8/3/2018	10:22:50	0.0	0.0
072	8/3/2018	10:23:50	0.0	0.0
073	8/3/2018	10:24:50	0.0	0.0
074	8/3/2018	10:25:50	0.0	0.0
075	8/3/2018	10:26:50	0.0	0.0
076	8/3/2018	10:27:50	0.0	0.0
077	8/3/2018	10:28:50	0.0	0.0
078	8/3/2018	10:29:50	0.0	0.0
079	8/3/2018	10:30:50	0.0	0.0
080	8/3/2018	10:31:50	0.0	0.0
081	8/3/2018	10:32:50	0.0	0.0
082	8/3/2018	10:33:50	0.0	0.0
083	8/3/2018	10:34:50	0.0	0.0
084	8/3/2018	10:35:50	0.0	0.0
085	8/3/2018	10:36:50	0.0	0.0
086	8/3/2018	10:37:50	0.0	0.0
087	8/3/2018	10:38:50	0.0	0.0
088	8/3/2018	10:39:50	0.0	0.0
089	8/3/2018	10:40:50	0.0	0.0
090	8/3/2018	10:41:50	0.0	0.0
091	8/3/2018	10:42:50	0.0	0.0
092	8/3/2018	10:43:50	0.0	0.0
093	8/3/2018	10:44:50	0.0	0.0
094	8/3/2018	10:45:50	0.0	0.0
095	8/3/2018	10:46:50	0.0	0.0
096	8/3/2018	10:47:50	0.0	0.0
097	8/3/2018	10:48:50	0.0	0.0
098	8/3/2018	10:49:50	0.0	0.0
099	8/3/2018	10:50:50	0.0	0.0
100	8/3/2018	10:51:50	0.0	0.0
101	8/3/2018	10:52:50	0.0	0.0
102	8/3/2018	10:53:50	0.0	0.0
103	8/3/2018	10:54:50	0.0	0.0

104	8/3/2018	10:55:50	0.0	0.0
105	8/3/2018	10:56:50	0.0	0.0
106	8/3/2018	10:57:50	0.0	0.0
107	8/3/2018	10:58:50	0.0	0.0
108	8/3/2018	10:59:50	0.0	0.0
109	8/3/2018	11:00:50	0.0	0.0
110	8/3/2018	11:01:50	0.0	0.0
111	8/3/2018	11:02:50	0.0	0.0
112	8/3/2018	11:03:50	0.0	0.0
113	8/3/2018	11:04:50	0.0	0.0
114	8/3/2018	11:05:50	0.0	0.0
115	8/3/2018	11:06:50	0.0	0.0
116	8/3/2018	11:07:50	0.0	0.0
117	8/3/2018	11:08:50	0.0	0.0
118	8/3/2018	11:09:50	0.0	0.0
119	8/3/2018	11:10:50	0.0	0.0
120	8/3/2018	11:11:50	0.0	0.0
121	8/3/2018	11:12:50	0.0	0.0
122	8/3/2018	11:13:50	0.0	0.0
123	8/3/2018	11:14:50	0.0	0.0
124	8/3/2018	11:15:50	0.0	0.0
125	8/3/2018	11:16:50	0.0	0.0
126	8/3/2018	11:17:50	0.0	0.0
127	8/3/2018	11:18:50	0.0	0.0
128	8/3/2018	11:19:50	0.0	0.0
129	8/3/2018	11:20:50	0.0	0.0
130	8/3/2018	11:21:50	0.0	0.0
131	8/3/2018	11:22:50	0.0	0.0
132	8/3/2018	11:23:50	0.0	0.0
133	8/3/2018	11:24:50	0.0	0.0
134	8/3/2018	11:25:50	0.0	0.0
135	8/3/2018	11:26:50	0.0	0.0
136	8/3/2018	11:27:50	0.0	0.0
137	8/3/2018	11:28:50	0.0	0.0
138	8/3/2018	11:29:50	0.0	0.0
139	8/3/2018	11:30:50	0.0	0.0
140	8/3/2018	11:31:50	0.0	0.0
141	8/3/2018	11:32:50	0.0	0.0

=====
18/08/06 10:50

Summary

Unit Name MiniRAE 3000(PGM-7320)
Unit SN 592-919975
Unit Firmware Ver V2.14

Running Mode Hygiene Mode

Datalog Mode Manual
Diagnostic Mode No
Stop Reason Power Down

Site ID RAE00000
User ID UW000000

Begin 8/6/2018 10:50:49
End 8/6/2018 17:03:53
Sample Period(s) 60
Number of Records 373

Sensor PID(ppm)
Sensor SN S023030116U2
Measure Type Min; Avg; Max; Real
Span 100.0
Span 2 1000.0
Low Alarm 50.0
High Alarm 100.0
Over Alarm 15000.0
STEL Alarm 25.0
TWA Alarm 10.0
Measurement Gas Isobutylene
Calibration Time 8/6/2018 07:35
Peak 0.0
Min 0.0
Average 0.0

Datalog

Index	Date/Time	PID(ppm) (Min)	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)	PID(ppm)
001	8/6/2018 10:51:49	0.0	0.0	0.0	0.0	0.0
002	8/6/2018 10:52:49	0.0	0.0	0.0	0.0	0.0
003	8/6/2018 10:53:49	0.0	0.0	0.0	0.0	0.0
004	8/6/2018 10:54:49	0.0	0.0	0.0	0.0	0.0
005	8/6/2018 10:55:49	0.0	0.0	0.0	0.0	0.0
006	8/6/2018 10:56:49	0.0	0.0	0.0	0.0	0.0
007	8/6/2018 10:57:49	0.0	0.0	0.0	0.0	0.0
008	8/6/2018 10:58:49	0.0	0.0	0.0	0.0	0.0
009	8/6/2018 10:59:49	0.0	0.0	0.0	0.0	0.0
010	8/6/2018 11:00:49	0.0	0.0	0.0	0.0	0.0
011	8/6/2018 11:01:49	0.0	0.0	0.0	0.0	0.0
012	8/6/2018 11:02:49	0.0	0.0	0.0	0.0	0.0
013	8/6/2018 11:03:49	0.0	0.0	0.0	0.0	0.0
014	8/6/2018 11:04:49	0.0	0.0	0.0	0.0	0.0
015	8/6/2018 11:05:49	0.0	0.0	0.0	0.0	0.0
016	8/6/2018 11:06:49	0.0	0.0	0.0	0.0	0.0

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017	8/6/2018	11:07:49	0.0	0.0	0.0	0.0
018	8/6/2018	11:08:49	0.0	0.0	0.0	0.0
019	8/6/2018	11:09:49	0.0	0.0	0.0	0.0
020	8/6/2018	11:10:49	0.0	0.0	0.0	0.0
021	8/6/2018	11:11:49	0.0	0.0	0.0	0.0
022	8/6/2018	11:12:49	0.0	0.0	0.0	0.0
023	8/6/2018	11:13:49	0.0	0.0	0.0	0.0
024	8/6/2018	11:14:49	0.0	0.0	0.0	0.0
025	8/6/2018	11:15:49	0.0	0.0	0.0	0.0
026	8/6/2018	11:16:49	0.0	0.0	0.0	0.0
027	8/6/2018	11:17:49	0.0	0.0	0.0	0.0
028	8/6/2018	11:18:49	0.0	0.0	0.0	0.0
029	8/6/2018	11:19:49	0.0	0.0	0.0	0.0
030	8/6/2018	11:20:49	0.0	0.0	0.0	0.0
031	8/6/2018	11:21:49	0.0	0.0	0.0	0.0
032	8/6/2018	11:22:49	0.0	0.0	0.0	0.0
033	8/6/2018	11:23:49	0.0	0.0	0.0	0.0
034	8/6/2018	11:24:49	0.0	0.0	0.0	0.0
035	8/6/2018	11:25:49	0.0	0.0	0.0	0.0
036	8/6/2018	11:26:49	0.0	0.0	0.0	0.0
037	8/6/2018	11:27:49	0.0	0.0	0.0	0.0
038	8/6/2018	11:28:49	0.0	0.0	0.0	0.0
039	8/6/2018	11:29:49	0.0	0.0	0.0	0.0
040	8/6/2018	11:30:49	0.0	0.0	0.0	0.0
041	8/6/2018	11:31:49	0.0	0.0	0.0	0.0
042	8/6/2018	11:32:49	0.0	0.0	0.0	0.0
043	8/6/2018	11:33:49	0.0	0.0	0.0	0.0
044	8/6/2018	11:34:49	0.0	0.0	0.0	0.0
045	8/6/2018	11:35:49	0.0	0.0	0.0	0.0
046	8/6/2018	11:36:49	0.0	0.0	0.0	0.0
047	8/6/2018	11:37:49	0.0	0.0	0.0	0.0
048	8/6/2018	11:38:49	0.0	0.0	0.0	0.0
049	8/6/2018	11:39:49	0.0	0.0	0.0	0.0
050	8/6/2018	11:40:49	0.0	0.0	0.0	0.0
051	8/6/2018	11:41:49	0.0	0.0	0.0	0.0
052	8/6/2018	11:42:49	0.0	0.0	0.0	0.0
053	8/6/2018	11:43:49	0.0	0.0	0.0	0.0
054	8/6/2018	11:44:49	0.0	0.0	0.0	0.0
055	8/6/2018	11:45:49	0.0	0.0	0.0	0.0
056	8/6/2018	11:46:49	0.0	0.0	0.0	0.0
057	8/6/2018	11:47:49	0.0	0.0	0.0	0.0
058	8/6/2018	11:48:49	0.0	0.0	0.0	0.0
059	8/6/2018	11:49:49	0.0	0.0	0.0	0.0
060	8/6/2018	11:50:49	0.0	0.0	0.0	0.0
061	8/6/2018	11:51:49	0.0	0.0	0.0	0.0
062	8/6/2018	11:52:49	0.0	0.0	0.0	0.0
063	8/6/2018	11:53:49	0.0	0.0	0.0	0.0
064	8/6/2018	11:54:49	0.0	0.0	0.0	0.0

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065	8/6/2018	11:55:49	0.0	0.0	0.0	0.0
066	8/6/2018	11:56:49	0.0	0.0	0.0	0.0
067	8/6/2018	11:57:49	0.0	0.0	0.0	0.0
068	8/6/2018	11:58:49	0.0	0.0	0.0	0.0
069	8/6/2018	11:59:49	0.0	0.0	0.0	0.0
070	8/6/2018	12:00:49	0.0	0.0	0.0	0.0
071	8/6/2018	12:01:49	0.0	0.0	0.0	0.0
072	8/6/2018	12:02:49	0.0	0.0	0.0	0.0
073	8/6/2018	12:03:49	0.0	0.0	0.0	0.0
074	8/6/2018	12:04:49	0.0	0.0	0.0	0.0
075	8/6/2018	12:05:49	0.0	0.0	0.0	0.0
076	8/6/2018	12:06:49	0.0	0.0	0.0	0.0
077	8/6/2018	12:07:49	0.0	0.0	0.0	0.0
078	8/6/2018	12:08:49	0.0	0.0	0.0	0.0
079	8/6/2018	12:09:49	0.0	0.0	0.0	0.0
080	8/6/2018	12:10:49	0.0	0.0	0.0	0.0
081	8/6/2018	12:11:49	0.0	0.0	0.0	0.0
082	8/6/2018	12:12:49	0.0	0.0	0.0	0.0
083	8/6/2018	12:13:49	0.0	0.0	0.0	0.0
084	8/6/2018	12:14:49	0.0	0.0	0.0	0.0
085	8/6/2018	12:15:49	0.0	0.0	0.0	0.0
086	8/6/2018	12:16:49	0.0	0.0	0.0	0.0
087	8/6/2018	12:17:49	0.0	0.0	0.0	0.0
088	8/6/2018	12:18:49	0.0	0.0	0.0	0.0
089	8/6/2018	12:19:49	0.0	0.0	0.0	0.0
090	8/6/2018	12:20:49	0.0	0.0	0.0	0.0
091	8/6/2018	12:21:49	0.0	0.0	0.0	0.0
092	8/6/2018	12:22:49	0.0	0.0	0.0	0.0
093	8/6/2018	12:23:49	0.0	0.0	0.0	0.0
094	8/6/2018	12:24:49	0.0	0.0	0.0	0.0
095	8/6/2018	12:25:49	0.0	0.0	0.0	0.0
096	8/6/2018	12:26:49	0.0	0.0	0.0	0.0
097	8/6/2018	12:27:49	0.0	0.0	0.0	0.0
098	8/6/2018	12:28:49	0.0	0.0	0.0	0.0
099	8/6/2018	12:29:49	0.0	0.0	0.0	0.0
100	8/6/2018	12:30:49	0.0	0.0	0.0	0.0
101	8/6/2018	12:31:49	0.0	0.0	0.0	0.0
102	8/6/2018	12:32:49	0.0	0.0	0.0	0.0
103	8/6/2018	12:33:49	0.0	0.0	0.0	0.0
104	8/6/2018	12:34:49	0.0	0.0	0.0	0.0
105	8/6/2018	12:35:49	0.0	0.0	0.0	0.0
106	8/6/2018	12:36:49	0.0	0.0	0.0	0.0
107	8/6/2018	12:37:49	0.0	0.0	0.0	0.0
108	8/6/2018	12:38:49	0.0	0.0	0.0	0.0
109	8/6/2018	12:39:49	0.0	0.0	0.0	0.0
110	8/6/2018	12:40:49	0.0	0.0	0.0	0.0
111	8/6/2018	12:41:49	0.0	0.0	0.0	0.0
112	8/6/2018	12:42:49	0.0	0.0	0.0	0.0

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113	8/6/2018	12:43:49	0.0	0.0	0.0	0.0
114	8/6/2018	12:44:49	0.0	0.0	0.0	0.0
115	8/6/2018	12:45:49	0.0	0.0	0.0	0.0
116	8/6/2018	12:46:49	0.0	0.0	0.0	0.0
117	8/6/2018	12:47:49	0.0	0.0	0.0	0.0
118	8/6/2018	12:48:49	0.0	0.0	0.0	0.0
119	8/6/2018	12:49:49	0.0	0.0	0.0	0.0
120	8/6/2018	12:50:49	0.0	0.0	0.0	0.0
121	8/6/2018	12:51:49	0.0	0.0	0.0	0.0
122	8/6/2018	12:52:49	0.0	0.0	0.0	0.0
123	8/6/2018	12:53:49	0.0	0.0	0.0	0.0
124	8/6/2018	12:54:49	0.0	0.0	0.0	0.0
125	8/6/2018	12:55:49	0.0	0.0	0.0	0.0
126	8/6/2018	12:56:49	0.0	0.0	0.0	0.0
127	8/6/2018	12:57:49	0.0	0.0	0.0	0.0
128	8/6/2018	12:58:49	0.0	0.0	0.0	0.0
129	8/6/2018	12:59:49	0.0	0.0	0.0	0.0
130	8/6/2018	13:00:49	0.0	0.0	0.0	0.0
131	8/6/2018	13:01:49	0.0	0.0	0.0	0.0
132	8/6/2018	13:02:49	0.0	0.0	0.0	0.0
133	8/6/2018	13:03:49	0.0	0.0	0.0	0.0
134	8/6/2018	13:04:49	0.0	0.0	0.0	0.0
135	8/6/2018	13:05:49	0.0	0.0	0.0	0.0
136	8/6/2018	13:06:49	0.0	0.0	0.0	0.0
137	8/6/2018	13:07:49	0.0	0.0	0.0	0.0
138	8/6/2018	13:08:49	0.0	0.0	0.0	0.0
139	8/6/2018	13:09:49	0.0	0.0	0.0	0.0
140	8/6/2018	13:10:49	0.0	0.0	0.0	0.0
141	8/6/2018	13:11:49	0.0	0.0	0.0	0.0
142	8/6/2018	13:12:49	0.0	0.0	0.0	0.0
143	8/6/2018	13:13:49	0.0	0.0	0.0	0.0
144	8/6/2018	13:14:49	0.0	0.0	0.0	0.0
145	8/6/2018	13:15:49	0.0	0.0	0.0	0.0
146	8/6/2018	13:16:49	0.0	0.0	0.0	0.0
147	8/6/2018	13:17:49	0.0	0.0	0.0	0.0
148	8/6/2018	13:18:49	0.0	0.0	0.0	0.0
149	8/6/2018	13:19:49	0.0	0.0	0.0	0.0
150	8/6/2018	13:20:49	0.0	0.0	0.0	0.0
151	8/6/2018	13:21:49	0.0	0.0	0.0	0.0
152	8/6/2018	13:22:49	0.0	0.0	0.0	0.0
153	8/6/2018	13:23:49	0.0	0.0	0.0	0.0
154	8/6/2018	13:24:49	0.0	0.0	0.0	0.0
155	8/6/2018	13:25:49	0.0	0.0	0.0	0.0
156	8/6/2018	13:26:49	0.0	0.0	0.0	0.0
157	8/6/2018	13:27:49	0.0	0.0	0.0	0.0
158	8/6/2018	13:28:49	0.0	0.0	0.0	0.0
159	8/6/2018	13:29:49	0.0	0.0	0.0	0.0
160	8/6/2018	13:30:49	0.0	0.0	0.0	0.0

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161	8/6/2018	13:31:49	0.0	0.0	0.0	0.0
162	8/6/2018	13:32:49	0.0	0.0	0.0	0.0
163	8/6/2018	13:33:49	0.0	0.0	0.0	0.0
164	8/6/2018	13:34:49	0.0	0.0	0.0	0.0
165	8/6/2018	13:35:49	0.0	0.0	0.0	0.0
166	8/6/2018	13:36:49	0.0	0.0	0.0	0.0
167	8/6/2018	13:37:49	0.0	0.0	0.0	0.0
168	8/6/2018	13:38:49	0.0	0.0	0.0	0.0
169	8/6/2018	13:39:49	0.0	0.0	0.0	0.0
170	8/6/2018	13:40:49	0.0	0.0	0.0	0.0
171	8/6/2018	13:41:49	0.0	0.0	0.0	0.0
172	8/6/2018	13:42:49	0.0	0.0	0.0	0.0
173	8/6/2018	13:43:49	0.0	0.0	0.0	0.0
174	8/6/2018	13:44:49	0.0	0.0	0.0	0.0
175	8/6/2018	13:45:49	0.0	0.0	0.0	0.0
176	8/6/2018	13:46:49	0.0	0.0	0.0	0.0
177	8/6/2018	13:47:49	0.0	0.0	0.0	0.0
178	8/6/2018	13:48:49	0.0	0.0	0.0	0.0
179	8/6/2018	13:49:49	0.0	0.0	0.0	0.0
180	8/6/2018	13:50:49	0.0	0.0	0.0	0.0
181	8/6/2018	13:51:49	0.0	0.0	0.0	0.0
182	8/6/2018	13:52:49	0.0	0.0	0.0	0.0
183	8/6/2018	13:53:49	0.0	0.0	0.0	0.0
184	8/6/2018	13:54:49	0.0	0.0	0.0	0.0
185	8/6/2018	13:55:49	0.0	0.0	0.0	0.0
186	8/6/2018	13:56:49	0.0	0.0	0.0	0.0
187	8/6/2018	13:57:49	0.0	0.0	0.0	0.0
188	8/6/2018	13:58:49	0.0	0.0	0.0	0.0
189	8/6/2018	13:59:49	0.0	0.0	0.0	0.0
190	8/6/2018	14:00:49	0.0	0.0	0.0	0.0
191	8/6/2018	14:01:49	0.0	0.0	0.0	0.0
192	8/6/2018	14:02:49	0.0	0.0	0.0	0.0
193	8/6/2018	14:03:49	0.0	0.0	0.0	0.0
194	8/6/2018	14:04:49	0.0	0.0	0.0	0.0
195	8/6/2018	14:05:49	0.0	0.0	0.0	0.0
196	8/6/2018	14:06:49	0.0	0.0	0.0	0.0
197	8/6/2018	14:07:49	0.0	0.0	0.0	0.0
198	8/6/2018	14:08:49	0.0	0.0	0.0	0.0
199	8/6/2018	14:09:49	0.0	0.0	0.0	0.0
200	8/6/2018	14:10:49	0.0	0.0	0.0	0.0
201	8/6/2018	14:11:49	0.0	0.0	0.0	0.0
202	8/6/2018	14:12:49	0.0	0.0	0.0	0.0
203	8/6/2018	14:13:49	0.0	0.0	0.0	0.0
204	8/6/2018	14:14:49	0.0	0.0	0.0	0.0
205	8/6/2018	14:15:49	0.0	0.0	0.0	0.0
206	8/6/2018	14:16:49	0.0	0.0	0.0	0.0
207	8/6/2018	14:17:49	0.0	0.0	0.0	0.0
208	8/6/2018	14:18:49	0.0	0.0	0.0	0.0

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209	8/6/2018	14:19:49	0.0	0.0	0.0	0.0
210	8/6/2018	14:20:49	0.0	0.0	0.0	0.0
211	8/6/2018	14:21:49	0.0	0.0	0.0	0.0
212	8/6/2018	14:22:49	0.0	0.0	0.0	0.0
213	8/6/2018	14:23:49	0.0	0.0	0.0	0.0
214	8/6/2018	14:24:49	0.0	0.0	0.0	0.0
215	8/6/2018	14:25:49	0.0	0.0	0.0	0.0
216	8/6/2018	14:26:49	0.0	0.0	0.0	0.0
217	8/6/2018	14:27:49	0.0	0.0	0.0	0.0
218	8/6/2018	14:28:49	0.0	0.0	0.0	0.0
219	8/6/2018	14:29:49	0.0	0.0	0.0	0.0
220	8/6/2018	14:30:49	0.0	0.0	0.0	0.0
221	8/6/2018	14:31:49	0.0	0.0	0.0	0.0
222	8/6/2018	14:32:49	0.0	0.0	0.0	0.0
223	8/6/2018	14:33:49	0.0	0.0	0.0	0.0
224	8/6/2018	14:34:49	0.0	0.0	0.0	0.0
225	8/6/2018	14:35:49	0.0	0.0	0.0	0.0
226	8/6/2018	14:36:49	0.0	0.0	0.0	0.0
227	8/6/2018	14:37:49	0.0	0.0	0.0	0.0
228	8/6/2018	14:38:49	0.0	0.0	0.0	0.0
229	8/6/2018	14:39:49	0.0	0.0	0.0	0.0
230	8/6/2018	14:40:49	0.0	0.0	0.0	0.0
231	8/6/2018	14:41:49	0.0	0.0	0.0	0.0
232	8/6/2018	14:42:49	0.0	0.0	0.0	0.0
233	8/6/2018	14:43:49	0.0	0.0	0.0	0.0
234	8/6/2018	14:44:49	0.0	0.0	0.0	0.0
235	8/6/2018	14:45:49	0.0	0.0	0.0	0.0
236	8/6/2018	14:46:49	0.0	0.0	0.0	0.0
237	8/6/2018	14:47:49	0.0	0.0	0.0	0.0
238	8/6/2018	14:48:49	0.0	0.0	0.0	0.0
239	8/6/2018	14:49:49	0.0	0.0	0.0	0.0
240	8/6/2018	14:50:49	0.0	0.0	0.0	0.0
241	8/6/2018	14:51:49	0.0	0.0	0.0	0.0
242	8/6/2018	14:52:49	0.0	0.0	0.0	0.0
243	8/6/2018	14:53:49	0.0	0.0	0.0	0.0
244	8/6/2018	14:54:49	0.0	0.0	0.0	0.0
245	8/6/2018	14:55:49	0.0	0.0	0.0	0.0
246	8/6/2018	14:56:49	0.0	0.0	0.0	0.0
247	8/6/2018	14:57:49	0.0	0.0	0.0	0.0
248	8/6/2018	14:58:49	0.0	0.0	0.0	0.0
249	8/6/2018	14:59:49	0.0	0.0	0.0	0.0
250	8/6/2018	15:00:49	0.0	0.0	0.0	0.0
251	8/6/2018	15:01:49	0.0	0.0	0.0	0.0
252	8/6/2018	15:02:49	0.0	0.0	0.0	0.0
253	8/6/2018	15:03:49	0.0	0.0	0.0	0.0
254	8/6/2018	15:04:49	0.0	0.0	0.0	0.0
255	8/6/2018	15:05:49	0.0	0.0	0.0	0.0
256	8/6/2018	15:06:49	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

257	8/6/2018	15:07:49	0.0	0.0	0.0	0.0
258	8/6/2018	15:08:49	0.0	0.0	0.0	0.0
259	8/6/2018	15:09:49	0.0	0.0	0.0	0.0
260	8/6/2018	15:10:49	0.0	0.0	0.0	0.0
261	8/6/2018	15:11:49	0.0	0.0	0.0	0.0
262	8/6/2018	15:12:49	0.0	0.0	0.0	0.0
263	8/6/2018	15:13:49	0.0	0.0	0.0	0.0
264	8/6/2018	15:14:49	0.0	0.0	0.0	0.0
265	8/6/2018	15:15:49	0.0	0.0	0.0	0.0
266	8/6/2018	15:16:49	0.0	0.0	0.0	0.0
267	8/6/2018	15:17:49	0.0	0.0	0.0	0.0
268	8/6/2018	15:18:49	0.0	0.0	0.0	0.0
269	8/6/2018	15:19:49	0.0	0.0	0.0	0.0
270	8/6/2018	15:20:49	0.0	0.0	0.0	0.0
271	8/6/2018	15:21:49	0.0	0.0	0.0	0.0
272	8/6/2018	15:22:49	0.0	0.0	0.0	0.0
273	8/6/2018	15:23:49	0.0	0.0	0.0	0.0
274	8/6/2018	15:24:49	0.0	0.0	0.0	0.0
275	8/6/2018	15:25:49	0.0	0.0	0.0	0.0
276	8/6/2018	15:26:49	0.0	0.0	0.0	0.0
277	8/6/2018	15:27:49	0.0	0.0	0.0	0.0
278	8/6/2018	15:28:49	0.0	0.0	0.0	0.0
279	8/6/2018	15:29:49	0.0	0.0	0.0	0.0
280	8/6/2018	15:30:49	0.0	0.0	0.0	0.0
281	8/6/2018	15:31:49	0.0	0.0	0.0	0.0
282	8/6/2018	15:32:49	0.0	0.0	0.0	0.0
283	8/6/2018	15:33:49	0.0	0.0	0.0	0.0
284	8/6/2018	15:34:49	0.0	0.0	0.0	0.0
285	8/6/2018	15:35:49	0.0	0.0	0.0	0.0
286	8/6/2018	15:36:49	0.0	0.0	0.0	0.0
287	8/6/2018	15:37:49	0.0	0.0	0.0	0.0
288	8/6/2018	15:38:49	0.0	0.0	0.0	0.0
289	8/6/2018	15:39:49	0.0	0.0	0.0	0.0
290	8/6/2018	15:40:49	0.0	0.0	0.0	0.0
291	8/6/2018	15:41:49	0.0	0.0	0.0	0.0
292	8/6/2018	15:42:49	0.0	0.0	0.0	0.0
293	8/6/2018	15:43:49	0.0	0.0	0.0	0.0
294	8/6/2018	15:44:49	0.0	0.0	0.0	0.0
295	8/6/2018	15:45:49	0.0	0.0	0.0	0.0
296	8/6/2018	15:46:49	0.0	0.0	0.0	0.0
297	8/6/2018	15:47:49	0.0	0.0	0.0	0.0
298	8/6/2018	15:48:49	0.0	0.0	0.0	0.0
299	8/6/2018	15:49:49	0.0	0.0	0.0	0.0
300	8/6/2018	15:50:49	0.0	0.0	0.0	0.0
301	8/6/2018	15:51:49	0.0	0.0	0.0	0.0
302	8/6/2018	15:52:49	0.0	0.0	0.0	0.0
303	8/6/2018	15:53:49	0.0	0.0	0.0	0.0
304	8/6/2018	15:54:49	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

305	8/6/2018	15:55:49	0.0	0.0	0.0	0.0
306	8/6/2018	15:56:49	0.0	0.0	0.0	0.0
307	8/6/2018	15:57:49	0.0	0.0	0.0	0.0
308	8/6/2018	15:58:49	0.0	0.0	0.0	0.0
309	8/6/2018	15:59:49	0.0	0.0	0.0	0.0
310	8/6/2018	16:00:49	0.0	0.0	0.0	0.0
311	8/6/2018	16:01:49	0.0	0.0	0.0	0.0
312	8/6/2018	16:02:49	0.0	0.0	0.0	0.0
313	8/6/2018	16:03:49	0.0	0.0	0.0	0.0
314	8/6/2018	16:04:49	0.0	0.0	0.0	0.0
315	8/6/2018	16:05:49	0.0	0.0	0.0	0.0
316	8/6/2018	16:06:49	0.0	0.0	0.0	0.0
317	8/6/2018	16:07:49	0.0	0.0	0.0	0.0
318	8/6/2018	16:08:49	0.0	0.0	0.0	0.0
319	8/6/2018	16:09:49	0.0	0.0	0.0	0.0
320	8/6/2018	16:10:49	0.0	0.0	0.0	0.0
321	8/6/2018	16:11:49	0.0	0.0	0.0	0.0
322	8/6/2018	16:12:49	0.0	0.0	0.0	0.0
323	8/6/2018	16:13:49	0.0	0.0	0.0	0.0
324	8/6/2018	16:14:49	0.0	0.0	0.0	0.0
325	8/6/2018	16:15:49	0.0	0.0	0.0	0.0
326	8/6/2018	16:16:49	0.0	0.0	0.0	0.0
327	8/6/2018	16:17:49	0.0	0.0	0.0	0.0
328	8/6/2018	16:18:49	0.0	0.0	0.0	0.0
329	8/6/2018	16:19:49	0.0	0.0	0.0	0.0
330	8/6/2018	16:20:49	0.0	0.0	0.0	0.0
331	8/6/2018	16:21:49	0.0	0.0	0.0	0.0
332	8/6/2018	16:22:49	0.0	0.0	0.0	0.0
333	8/6/2018	16:23:49	0.0	0.0	0.0	0.0
334	8/6/2018	16:24:49	0.0	0.0	0.0	0.0
335	8/6/2018	16:25:49	0.0	0.0	0.0	0.0
336	8/6/2018	16:26:49	0.0	0.0	0.0	0.0
337	8/6/2018	16:27:49	0.0	0.0	0.0	0.0
338	8/6/2018	16:28:49	0.0	0.0	0.0	0.0
339	8/6/2018	16:29:49	0.0	0.0	0.0	0.0
340	8/6/2018	16:30:49	0.0	0.0	0.0	0.0
341	8/6/2018	16:31:49	0.0	0.0	0.0	0.0
342	8/6/2018	16:32:49	0.0	0.0	0.0	0.0
343	8/6/2018	16:33:49	0.0	0.0	0.0	0.0
344	8/6/2018	16:34:49	0.0	0.0	0.0	0.0
345	8/6/2018	16:35:49	0.0	0.0	0.0	0.0
346	8/6/2018	16:36:49	0.0	0.0	0.0	0.0
347	8/6/2018	16:37:49	0.0	0.0	0.0	0.0
348	8/6/2018	16:38:49	0.0	0.0	0.0	0.0
349	8/6/2018	16:39:49	0.0	0.0	0.0	0.0
350	8/6/2018	16:40:49	0.0	0.0	0.0	0.0
351	8/6/2018	16:41:49	0.0	0.0	0.0	0.0
352	8/6/2018	16:42:49	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

353	8/6/2018	16:43:49	0.0	0.0	0.0	0.0
354	8/6/2018	16:44:49	0.0	0.0	0.0	0.0
355	8/6/2018	16:45:49	0.0	0.0	0.0	0.0
356	8/6/2018	16:46:49	0.0	0.0	0.0	0.0
357	8/6/2018	16:47:49	0.0	0.0	0.0	0.0
358	8/6/2018	16:48:49	0.0	0.0	0.0	0.0
359	8/6/2018	16:49:49	0.0	0.0	0.0	0.0
360	8/6/2018	16:50:49	0.0	0.0	0.0	0.0
361	8/6/2018	16:51:49	0.0	0.0	0.0	0.0
362	8/6/2018	16:52:49	0.0	0.0	0.0	0.0
363	8/6/2018	16:53:49	0.0	0.0	0.0	0.0
364	8/6/2018	16:54:49	0.0	0.0	0.0	0.0
365	8/6/2018	16:55:49	0.0	0.0	0.0	0.0
366	8/6/2018	16:56:49	0.0	0.0	0.0	0.0
367	8/6/2018	16:57:49	0.0	0.0	0.0	0.0
368	8/6/2018	16:58:49	0.0	0.0	0.0	0.0
369	8/6/2018	16:59:49	0.0	0.0	0.0	0.0
370	8/6/2018	17:00:49	0.0	0.0	0.0	0.0
371	8/6/2018	17:01:49	0.0	0.0	0.0	0.0
372	8/6/2018	17:02:49	0.0	0.0	0.0	0.0
373	8/6/2018	17:03:49	0.0	0.0	0.0	0.0
Peak		0.0 0.0	0.0	0.0		
Min		0.0 0.0	0.0	0.0		
Average		0.0 0.0	0.0	0.0		

TWA/STEL

Index	Date/Time	PID(ppm) (TWA)	PID(ppm) (STEL)
001	8/6/2018 10:51:49	0.0	---
002	8/6/2018 10:52:49	0.0	---
003	8/6/2018 10:53:49	0.0	---
004	8/6/2018 10:54:49	0.0	---
005	8/6/2018 10:55:49	0.0	---
006	8/6/2018 10:56:49	0.0	---
007	8/6/2018 10:57:49	0.0	---
008	8/6/2018 10:58:49	0.0	---
009	8/6/2018 10:59:49	0.0	---
010	8/6/2018 11:00:49	0.0	---
011	8/6/2018 11:01:49	0.0	---
012	8/6/2018 11:02:49	0.0	---
013	8/6/2018 11:03:49	0.0	---
014	8/6/2018 11:04:49	0.0	---
015	8/6/2018 11:05:49	0.0	0.0
016	8/6/2018 11:06:49	0.0	0.0
017	8/6/2018 11:07:49	0.0	0.0
018	8/6/2018 11:08:49	0.0	0.0
019	8/6/2018 11:09:49	0.0	0.0

020	8/6/2018	11:10:49	0.0	0.0
021	8/6/2018	11:11:49	0.0	0.0
022	8/6/2018	11:12:49	0.0	0.0
023	8/6/2018	11:13:49	0.0	0.0
024	8/6/2018	11:14:49	0.0	0.0
025	8/6/2018	11:15:49	0.0	0.0
026	8/6/2018	11:16:49	0.0	0.0
027	8/6/2018	11:17:49	0.0	0.0
028	8/6/2018	11:18:49	0.0	0.0
029	8/6/2018	11:19:49	0.0	0.0
030	8/6/2018	11:20:49	0.0	0.0
031	8/6/2018	11:21:49	0.0	0.0
032	8/6/2018	11:22:49	0.0	0.0
033	8/6/2018	11:23:49	0.0	0.0
034	8/6/2018	11:24:49	0.0	0.0
035	8/6/2018	11:25:49	0.0	0.0
036	8/6/2018	11:26:49	0.0	0.0
037	8/6/2018	11:27:49	0.0	0.0
038	8/6/2018	11:28:49	0.0	0.0
039	8/6/2018	11:29:49	0.0	0.0
040	8/6/2018	11:30:49	0.0	0.0
041	8/6/2018	11:31:49	0.0	0.0
042	8/6/2018	11:32:49	0.0	0.0
043	8/6/2018	11:33:49	0.0	0.0
044	8/6/2018	11:34:49	0.0	0.0
045	8/6/2018	11:35:49	0.0	0.0
046	8/6/2018	11:36:49	0.0	0.0
047	8/6/2018	11:37:49	0.0	0.0
048	8/6/2018	11:38:49	0.0	0.0
049	8/6/2018	11:39:49	0.0	0.0
050	8/6/2018	11:40:49	0.0	0.0
051	8/6/2018	11:41:49	0.0	0.0
052	8/6/2018	11:42:49	0.0	0.0
053	8/6/2018	11:43:49	0.0	0.0
054	8/6/2018	11:44:49	0.0	0.0
055	8/6/2018	11:45:49	0.0	0.0
056	8/6/2018	11:46:49	0.0	0.0
057	8/6/2018	11:47:49	0.0	0.0
058	8/6/2018	11:48:49	0.0	0.0
059	8/6/2018	11:49:49	0.0	0.0
060	8/6/2018	11:50:49	0.0	0.0
061	8/6/2018	11:51:49	0.0	0.0
062	8/6/2018	11:52:49	0.0	0.0
063	8/6/2018	11:53:49	0.0	0.0
064	8/6/2018	11:54:49	0.0	0.0
065	8/6/2018	11:55:49	0.0	0.0
066	8/6/2018	11:56:49	0.0	0.0
067	8/6/2018	11:57:49	0.0	0.0

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068	8/6/2018	11:58:49	0.0	0.0
069	8/6/2018	11:59:49	0.0	0.0
070	8/6/2018	12:00:49	0.0	0.0
071	8/6/2018	12:01:49	0.0	0.0
072	8/6/2018	12:02:49	0.0	0.0
073	8/6/2018	12:03:49	0.0	0.0
074	8/6/2018	12:04:49	0.0	0.0
075	8/6/2018	12:05:49	0.0	0.0
076	8/6/2018	12:06:49	0.0	0.0
077	8/6/2018	12:07:49	0.0	0.0
078	8/6/2018	12:08:49	0.0	0.0
079	8/6/2018	12:09:49	0.0	0.0
080	8/6/2018	12:10:49	0.0	0.0
081	8/6/2018	12:11:49	0.0	0.0
082	8/6/2018	12:12:49	0.0	0.0
083	8/6/2018	12:13:49	0.0	0.0
084	8/6/2018	12:14:49	0.0	0.0
085	8/6/2018	12:15:49	0.0	0.0
086	8/6/2018	12:16:49	0.0	0.0
087	8/6/2018	12:17:49	0.0	0.0
088	8/6/2018	12:18:49	0.0	0.0
089	8/6/2018	12:19:49	0.0	0.0
090	8/6/2018	12:20:49	0.0	0.0
091	8/6/2018	12:21:49	0.0	0.0
092	8/6/2018	12:22:49	0.0	0.0
093	8/6/2018	12:23:49	0.0	0.0
094	8/6/2018	12:24:49	0.0	0.0
095	8/6/2018	12:25:49	0.0	0.0
096	8/6/2018	12:26:49	0.0	0.0
097	8/6/2018	12:27:49	0.0	0.0
098	8/6/2018	12:28:49	0.0	0.0
099	8/6/2018	12:29:49	0.0	0.0
100	8/6/2018	12:30:49	0.0	0.0
101	8/6/2018	12:31:49	0.0	0.0
102	8/6/2018	12:32:49	0.0	0.0
103	8/6/2018	12:33:49	0.0	0.0
104	8/6/2018	12:34:49	0.0	0.0
105	8/6/2018	12:35:49	0.0	0.0
106	8/6/2018	12:36:49	0.0	0.0
107	8/6/2018	12:37:49	0.0	0.0
108	8/6/2018	12:38:49	0.0	0.0
109	8/6/2018	12:39:49	0.0	0.0
110	8/6/2018	12:40:49	0.0	0.0
111	8/6/2018	12:41:49	0.0	0.0
112	8/6/2018	12:42:49	0.0	0.0
113	8/6/2018	12:43:49	0.0	0.0
114	8/6/2018	12:44:49	0.0	0.0
115	8/6/2018	12:45:49	0.0	0.0

116	8/6/2018	12:46:49	0.0	0.0
117	8/6/2018	12:47:49	0.0	0.0
118	8/6/2018	12:48:49	0.0	0.0
119	8/6/2018	12:49:49	0.0	0.0
120	8/6/2018	12:50:49	0.0	0.0
121	8/6/2018	12:51:49	0.0	0.0
122	8/6/2018	12:52:49	0.0	0.0
123	8/6/2018	12:53:49	0.0	0.0
124	8/6/2018	12:54:49	0.0	0.0
125	8/6/2018	12:55:49	0.0	0.0
126	8/6/2018	12:56:49	0.0	0.0
127	8/6/2018	12:57:49	0.0	0.0
128	8/6/2018	12:58:49	0.0	0.0
129	8/6/2018	12:59:49	0.0	0.0
130	8/6/2018	13:00:49	0.0	0.0
131	8/6/2018	13:01:49	0.0	0.0
132	8/6/2018	13:02:49	0.0	0.0
133	8/6/2018	13:03:49	0.0	0.0
134	8/6/2018	13:04:49	0.0	0.0
135	8/6/2018	13:05:49	0.0	0.0
136	8/6/2018	13:06:49	0.0	0.0
137	8/6/2018	13:07:49	0.0	0.0
138	8/6/2018	13:08:49	0.0	0.0
139	8/6/2018	13:09:49	0.0	0.0
140	8/6/2018	13:10:49	0.0	0.0
141	8/6/2018	13:11:49	0.0	0.0
142	8/6/2018	13:12:49	0.0	0.0
143	8/6/2018	13:13:49	0.0	0.0
144	8/6/2018	13:14:49	0.0	0.0
145	8/6/2018	13:15:49	0.0	0.0
146	8/6/2018	13:16:49	0.0	0.0
147	8/6/2018	13:17:49	0.0	0.0
148	8/6/2018	13:18:49	0.0	0.0
149	8/6/2018	13:19:49	0.0	0.0
150	8/6/2018	13:20:49	0.0	0.0
151	8/6/2018	13:21:49	0.0	0.0
152	8/6/2018	13:22:49	0.0	0.0
153	8/6/2018	13:23:49	0.0	0.0
154	8/6/2018	13:24:49	0.0	0.0
155	8/6/2018	13:25:49	0.0	0.0
156	8/6/2018	13:26:49	0.0	0.0
157	8/6/2018	13:27:49	0.0	0.0
158	8/6/2018	13:28:49	0.0	0.0
159	8/6/2018	13:29:49	0.0	0.0
160	8/6/2018	13:30:49	0.0	0.0
161	8/6/2018	13:31:49	0.0	0.0
162	8/6/2018	13:32:49	0.0	0.0
163	8/6/2018	13:33:49	0.0	0.0

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164	8/6/2018	13:34:49	0.0	0.0
165	8/6/2018	13:35:49	0.0	0.0
166	8/6/2018	13:36:49	0.0	0.0
167	8/6/2018	13:37:49	0.0	0.0
168	8/6/2018	13:38:49	0.0	0.0
169	8/6/2018	13:39:49	0.0	0.0
170	8/6/2018	13:40:49	0.0	0.0
171	8/6/2018	13:41:49	0.0	0.0
172	8/6/2018	13:42:49	0.0	0.0
173	8/6/2018	13:43:49	0.0	0.0
174	8/6/2018	13:44:49	0.0	0.0
175	8/6/2018	13:45:49	0.0	0.0
176	8/6/2018	13:46:49	0.0	0.0
177	8/6/2018	13:47:49	0.0	0.0
178	8/6/2018	13:48:49	0.0	0.0
179	8/6/2018	13:49:49	0.0	0.0
180	8/6/2018	13:50:49	0.0	0.0
181	8/6/2018	13:51:49	0.0	0.0
182	8/6/2018	13:52:49	0.0	0.0
183	8/6/2018	13:53:49	0.0	0.0
184	8/6/2018	13:54:49	0.0	0.0
185	8/6/2018	13:55:49	0.0	0.0
186	8/6/2018	13:56:49	0.0	0.0
187	8/6/2018	13:57:49	0.0	0.0
188	8/6/2018	13:58:49	0.0	0.0
189	8/6/2018	13:59:49	0.0	0.0
190	8/6/2018	14:00:49	0.0	0.0
191	8/6/2018	14:01:49	0.0	0.0
192	8/6/2018	14:02:49	0.0	0.0
193	8/6/2018	14:03:49	0.0	0.0
194	8/6/2018	14:04:49	0.0	0.0
195	8/6/2018	14:05:49	0.0	0.0
196	8/6/2018	14:06:49	0.0	0.0
197	8/6/2018	14:07:49	0.0	0.0
198	8/6/2018	14:08:49	0.0	0.0
199	8/6/2018	14:09:49	0.0	0.0
200	8/6/2018	14:10:49	0.0	0.0
201	8/6/2018	14:11:49	0.0	0.0
202	8/6/2018	14:12:49	0.0	0.0
203	8/6/2018	14:13:49	0.0	0.0
204	8/6/2018	14:14:49	0.0	0.0
205	8/6/2018	14:15:49	0.0	0.0
206	8/6/2018	14:16:49	0.0	0.0
207	8/6/2018	14:17:49	0.0	0.0
208	8/6/2018	14:18:49	0.0	0.0
209	8/6/2018	14:19:49	0.0	0.0
210	8/6/2018	14:20:49	0.0	0.0
211	8/6/2018	14:21:49	0.0	0.0

212	8/6/2018	14:22:49	0.0	0.0
213	8/6/2018	14:23:49	0.0	0.0
214	8/6/2018	14:24:49	0.0	0.0
215	8/6/2018	14:25:49	0.0	0.0
216	8/6/2018	14:26:49	0.0	0.0
217	8/6/2018	14:27:49	0.0	0.0
218	8/6/2018	14:28:49	0.0	0.0
219	8/6/2018	14:29:49	0.0	0.0
220	8/6/2018	14:30:49	0.0	0.0
221	8/6/2018	14:31:49	0.0	0.0
222	8/6/2018	14:32:49	0.0	0.0
223	8/6/2018	14:33:49	0.0	0.0
224	8/6/2018	14:34:49	0.0	0.0
225	8/6/2018	14:35:49	0.0	0.0
226	8/6/2018	14:36:49	0.0	0.0
227	8/6/2018	14:37:49	0.0	0.0
228	8/6/2018	14:38:49	0.0	0.0
229	8/6/2018	14:39:49	0.0	0.0
230	8/6/2018	14:40:49	0.0	0.0
231	8/6/2018	14:41:49	0.0	0.0
232	8/6/2018	14:42:49	0.0	0.0
233	8/6/2018	14:43:49	0.0	0.0
234	8/6/2018	14:44:49	0.0	0.0
235	8/6/2018	14:45:49	0.0	0.0
236	8/6/2018	14:46:49	0.0	0.0
237	8/6/2018	14:47:49	0.0	0.0
238	8/6/2018	14:48:49	0.0	0.0
239	8/6/2018	14:49:49	0.0	0.0
240	8/6/2018	14:50:49	0.0	0.0
241	8/6/2018	14:51:49	0.0	0.0
242	8/6/2018	14:52:49	0.0	0.0
243	8/6/2018	14:53:49	0.0	0.0
244	8/6/2018	14:54:49	0.0	0.0
245	8/6/2018	14:55:49	0.0	0.0
246	8/6/2018	14:56:49	0.0	0.0
247	8/6/2018	14:57:49	0.0	0.0
248	8/6/2018	14:58:49	0.0	0.0
249	8/6/2018	14:59:49	0.0	0.0
250	8/6/2018	15:00:49	0.0	0.0
251	8/6/2018	15:01:49	0.0	0.0
252	8/6/2018	15:02:49	0.0	0.0
253	8/6/2018	15:03:49	0.0	0.0
254	8/6/2018	15:04:49	0.0	0.0
255	8/6/2018	15:05:49	0.0	0.0
256	8/6/2018	15:06:49	0.0	0.0
257	8/6/2018	15:07:49	0.0	0.0
258	8/6/2018	15:08:49	0.0	0.0
259	8/6/2018	15:09:49	0.0	0.0

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260	8/6/2018	15:10:49	0.0	0.0
261	8/6/2018	15:11:49	0.0	0.0
262	8/6/2018	15:12:49	0.0	0.0
263	8/6/2018	15:13:49	0.0	0.0
264	8/6/2018	15:14:49	0.0	0.0
265	8/6/2018	15:15:49	0.0	0.0
266	8/6/2018	15:16:49	0.0	0.0
267	8/6/2018	15:17:49	0.0	0.0
268	8/6/2018	15:18:49	0.0	0.0
269	8/6/2018	15:19:49	0.0	0.0
270	8/6/2018	15:20:49	0.0	0.0
271	8/6/2018	15:21:49	0.0	0.0
272	8/6/2018	15:22:49	0.0	0.0
273	8/6/2018	15:23:49	0.0	0.0
274	8/6/2018	15:24:49	0.0	0.0
275	8/6/2018	15:25:49	0.0	0.0
276	8/6/2018	15:26:49	0.0	0.0
277	8/6/2018	15:27:49	0.0	0.0
278	8/6/2018	15:28:49	0.0	0.0
279	8/6/2018	15:29:49	0.0	0.0
280	8/6/2018	15:30:49	0.0	0.0
281	8/6/2018	15:31:49	0.0	0.0
282	8/6/2018	15:32:49	0.0	0.0
283	8/6/2018	15:33:49	0.0	0.0
284	8/6/2018	15:34:49	0.0	0.0
285	8/6/2018	15:35:49	0.0	0.0
286	8/6/2018	15:36:49	0.0	0.0
287	8/6/2018	15:37:49	0.0	0.0
288	8/6/2018	15:38:49	0.0	0.0
289	8/6/2018	15:39:49	0.0	0.0
290	8/6/2018	15:40:49	0.0	0.0
291	8/6/2018	15:41:49	0.0	0.0
292	8/6/2018	15:42:49	0.0	0.0
293	8/6/2018	15:43:49	0.0	0.0
294	8/6/2018	15:44:49	0.0	0.0
295	8/6/2018	15:45:49	0.0	0.0
296	8/6/2018	15:46:49	0.0	0.0
297	8/6/2018	15:47:49	0.0	0.0
298	8/6/2018	15:48:49	0.0	0.0
299	8/6/2018	15:49:49	0.0	0.0
300	8/6/2018	15:50:49	0.0	0.0
301	8/6/2018	15:51:49	0.0	0.0
302	8/6/2018	15:52:49	0.0	0.0
303	8/6/2018	15:53:49	0.0	0.0
304	8/6/2018	15:54:49	0.0	0.0
305	8/6/2018	15:55:49	0.0	0.0
306	8/6/2018	15:56:49	0.0	0.0
307	8/6/2018	15:57:49	0.0	0.0

308	8/6/2018	15:58:49	0.0	0.0
309	8/6/2018	15:59:49	0.0	0.0
310	8/6/2018	16:00:49	0.0	0.0
311	8/6/2018	16:01:49	0.0	0.0
312	8/6/2018	16:02:49	0.0	0.0
313	8/6/2018	16:03:49	0.0	0.0
314	8/6/2018	16:04:49	0.0	0.0
315	8/6/2018	16:05:49	0.0	0.0
316	8/6/2018	16:06:49	0.0	0.0
317	8/6/2018	16:07:49	0.0	0.0
318	8/6/2018	16:08:49	0.0	0.0
319	8/6/2018	16:09:49	0.0	0.0
320	8/6/2018	16:10:49	0.0	0.0
321	8/6/2018	16:11:49	0.0	0.0
322	8/6/2018	16:12:49	0.0	0.0
323	8/6/2018	16:13:49	0.0	0.0
324	8/6/2018	16:14:49	0.0	0.0
325	8/6/2018	16:15:49	0.0	0.0
326	8/6/2018	16:16:49	0.0	0.0
327	8/6/2018	16:17:49	0.0	0.0
328	8/6/2018	16:18:49	0.0	0.0
329	8/6/2018	16:19:49	0.0	0.0
330	8/6/2018	16:20:49	0.0	0.0
331	8/6/2018	16:21:49	0.0	0.0
332	8/6/2018	16:22:49	0.0	0.0
333	8/6/2018	16:23:49	0.0	0.0
334	8/6/2018	16:24:49	0.0	0.0
335	8/6/2018	16:25:49	0.0	0.0
336	8/6/2018	16:26:49	0.0	0.0
337	8/6/2018	16:27:49	0.0	0.0
338	8/6/2018	16:28:49	0.0	0.0
339	8/6/2018	16:29:49	0.0	0.0
340	8/6/2018	16:30:49	0.0	0.0
341	8/6/2018	16:31:49	0.0	0.0
342	8/6/2018	16:32:49	0.0	0.0
343	8/6/2018	16:33:49	0.0	0.0
344	8/6/2018	16:34:49	0.0	0.0
345	8/6/2018	16:35:49	0.0	0.0
346	8/6/2018	16:36:49	0.0	0.0
347	8/6/2018	16:37:49	0.0	0.0
348	8/6/2018	16:38:49	0.0	0.0
349	8/6/2018	16:39:49	0.0	0.0
350	8/6/2018	16:40:49	0.0	0.0
351	8/6/2018	16:41:49	0.0	0.0
352	8/6/2018	16:42:49	0.0	0.0
353	8/6/2018	16:43:49	0.0	0.0
354	8/6/2018	16:44:49	0.0	0.0
355	8/6/2018	16:45:49	0.0	0.0

356	8/6/2018	16:46:49	0.0	0.0
357	8/6/2018	16:47:49	0.0	0.0
358	8/6/2018	16:48:49	0.0	0.0
359	8/6/2018	16:49:49	0.0	0.0
360	8/6/2018	16:50:49	0.0	0.0
361	8/6/2018	16:51:49	0.0	0.0
362	8/6/2018	16:52:49	0.0	0.0
363	8/6/2018	16:53:49	0.0	0.0
364	8/6/2018	16:54:49	0.0	0.0
365	8/6/2018	16:55:49	0.0	0.0
366	8/6/2018	16:56:49	0.0	0.0
367	8/6/2018	16:57:49	0.0	0.0
368	8/6/2018	16:58:49	0.0	0.0
369	8/6/2018	16:59:49	0.0	0.0
370	8/6/2018	17:00:49	0.0	0.0
371	8/6/2018	17:01:49	0.0	0.0
372	8/6/2018	17:02:49	0.0	0.0
373	8/6/2018	17:03:49	0.0	0.0

18/08/08 09:33

Summary

Unit Name MiniRAE 3000(PGM-7320)
Unit SN 592-919975
Unit Firmware Ver V2.14

Running Mode Hygiene Mode
Datalog Mode Manual
Diagnostic Mode No
Stop Reason Power Down

Site ID RAE00000
User ID UW000000

Begin 8/8/2018 09:33:32
End 8/8/2018 16:37:02
Sample Period(s) 60
Number of Records 423

Sensor PID(ppm)
Sensor SN S023030116U2
Measure Type Min; Avg; Max; Real
Span 100.0
Span 2 1000.0
Low Alarm 50.0
High Alarm 100.0
Over Alarm 15000.0

STEL Alarm 25.0
 TWA Alarm 10.0
 Measurement Gas Isobutylene
 Calibration Time 8/8/2018 07:19
 Peak 0.0
 Min 0.0
 Average 0.0

Datalog

Index	Date/Time	PID(ppm) (Min)	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)	PID(ppm)
001	8/8/2018 09:34:32	0.0	0.0	0.0	0.0	0.0
002	8/8/2018 09:35:32	0.0	0.0	0.0	0.0	0.0
003	8/8/2018 09:36:32	0.0	0.0	0.0	0.0	0.0
004	8/8/2018 09:37:32	0.0	0.0	0.0	0.0	0.0
005	8/8/2018 09:38:32	0.0	0.0	0.0	0.0	0.0
006	8/8/2018 09:39:32	0.0	0.0	0.0	0.0	0.0
007	8/8/2018 09:40:32	0.0	0.0	0.0	0.0	0.0
008	8/8/2018 09:41:32	0.0	0.0	0.0	0.0	0.0
009	8/8/2018 09:42:32	0.0	0.0	0.0	0.0	0.0
010	8/8/2018 09:43:32	0.0	0.0	0.0	0.0	0.0
011	8/8/2018 09:44:32	0.0	0.0	0.0	0.0	0.0
012	8/8/2018 09:45:32	0.0	0.0	0.0	0.0	0.0
013	8/8/2018 09:46:32	0.0	0.0	0.0	0.0	0.0
014	8/8/2018 09:47:32	0.0	0.0	0.0	0.0	0.0
015	8/8/2018 09:48:32	0.0	0.0	0.0	0.0	0.0
016	8/8/2018 09:49:32	0.0	0.0	0.0	0.0	0.0
017	8/8/2018 09:50:32	0.0	0.0	0.0	0.0	0.0
018	8/8/2018 09:51:32	0.0	0.0	0.0	0.0	0.0
019	8/8/2018 09:52:32	0.0	0.0	0.0	0.0	0.0
020	8/8/2018 09:53:32	0.0	0.0	0.0	0.0	0.0
021	8/8/2018 09:54:32	0.0	0.0	0.0	0.0	0.0
022	8/8/2018 09:55:32	0.0	0.0	0.0	0.0	0.0
023	8/8/2018 09:56:32	0.0	0.0	0.0	0.0	0.0
024	8/8/2018 09:57:32	0.0	0.0	0.0	0.0	0.0
025	8/8/2018 09:58:32	0.0	0.0	0.0	0.0	0.0
026	8/8/2018 09:59:32	0.0	0.0	0.0	0.0	0.0
027	8/8/2018 10:00:32	0.0	0.0	0.0	0.0	0.0
028	8/8/2018 10:01:32	0.0	0.0	0.0	0.0	0.0
029	8/8/2018 10:02:32	0.0	0.0	0.0	0.0	0.0
030	8/8/2018 10:03:32	0.0	0.0	0.0	0.0	0.0
031	8/8/2018 10:04:32	0.0	0.0	0.0	0.0	0.0
032	8/8/2018 10:05:32	0.0	0.0	0.0	0.0	0.0
033	8/8/2018 10:06:32	0.0	0.0	0.0	0.0	0.0
034	8/8/2018 10:07:32	0.0	0.0	0.0	0.0	0.0
035	8/8/2018 10:08:32	0.0	0.0	0.0	0.0	0.0
036	8/8/2018 10:09:32	0.0	0.0	0.0	0.0	0.0

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037	8/8/2018	10:10:32	0.0	0.0	0.0	0.0
038	8/8/2018	10:11:32	0.0	0.0	0.0	0.0
039	8/8/2018	10:12:32	0.0	0.0	0.0	0.0
040	8/8/2018	10:13:32	0.0	0.0	0.0	0.0
041	8/8/2018	10:14:32	0.0	0.0	0.0	0.0
042	8/8/2018	10:15:32	0.0	0.0	0.0	0.0
043	8/8/2018	10:16:32	0.0	0.0	0.0	0.0
044	8/8/2018	10:17:32	0.0	0.0	0.0	0.0
045	8/8/2018	10:18:32	0.0	0.0	0.0	0.0
046	8/8/2018	10:19:32	0.0	0.0	0.0	0.0
047	8/8/2018	10:20:32	0.0	0.0	0.0	0.0
048	8/8/2018	10:21:32	0.0	0.0	0.0	0.0
049	8/8/2018	10:22:32	0.0	0.0	0.0	0.0
050	8/8/2018	10:23:32	0.0	0.0	0.0	0.0
051	8/8/2018	10:24:32	0.0	0.0	0.0	0.0
052	8/8/2018	10:25:32	0.0	0.0	0.0	0.0
053	8/8/2018	10:26:32	0.0	0.0	0.0	0.0
054	8/8/2018	10:27:32	0.0	0.0	0.0	0.0
055	8/8/2018	10:28:32	0.0	0.0	0.0	0.0
056	8/8/2018	10:29:32	0.0	0.0	0.0	0.0
057	8/8/2018	10:30:32	0.0	0.0	0.0	0.0
058	8/8/2018	10:31:32	0.0	0.0	0.0	0.0
059	8/8/2018	10:32:32	0.0	0.0	0.0	0.0
060	8/8/2018	10:33:32	0.0	0.0	0.0	0.0
061	8/8/2018	10:34:32	0.0	0.0	0.0	0.0
062	8/8/2018	10:35:32	0.0	0.0	0.0	0.0
063	8/8/2018	10:36:32	0.0	0.0	0.0	0.0
064	8/8/2018	10:37:32	0.0	0.0	0.0	0.0
065	8/8/2018	10:38:32	0.0	0.0	0.0	0.0
066	8/8/2018	10:39:32	0.0	0.0	0.0	0.0
067	8/8/2018	10:40:32	0.0	0.0	0.0	0.0
068	8/8/2018	10:41:32	0.0	0.0	0.0	0.0
069	8/8/2018	10:42:32	0.0	0.0	0.0	0.0
070	8/8/2018	10:43:32	0.0	0.0	0.0	0.0
071	8/8/2018	10:44:32	0.0	0.0	0.0	0.0
072	8/8/2018	10:45:32	0.0	0.0	0.0	0.0
073	8/8/2018	10:46:32	0.0	0.0	0.0	0.0
074	8/8/2018	10:47:32	0.0	0.0	0.0	0.0
075	8/8/2018	10:48:32	0.0	0.0	0.0	0.0
076	8/8/2018	10:49:32	0.0	0.0	0.0	0.0
077	8/8/2018	10:50:32	0.0	0.0	0.0	0.0
078	8/8/2018	10:51:32	0.0	0.0	0.0	0.0
079	8/8/2018	10:52:32	0.0	0.0	0.0	0.0
080	8/8/2018	10:53:32	0.0	0.0	0.0	0.0
081	8/8/2018	10:54:32	0.0	0.0	0.0	0.0
082	8/8/2018	10:55:32	0.0	0.0	0.0	0.0
083	8/8/2018	10:56:32	0.0	0.0	0.0	0.0
084	8/8/2018	10:57:32	0.0	0.0	0.0	0.0

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085	8/8/2018	10:58:32	0.0	0.0	0.0	0.0
086	8/8/2018	10:59:32	0.0	0.0	0.0	0.0
087	8/8/2018	11:00:32	0.0	0.0	0.0	0.0
088	8/8/2018	11:01:32	0.0	0.0	0.0	0.0
089	8/8/2018	11:02:32	0.0	0.0	0.0	0.0
090	8/8/2018	11:03:32	0.0	0.0	0.0	0.0
091	8/8/2018	11:04:32	0.0	0.0	0.0	0.0
092	8/8/2018	11:05:32	0.0	0.0	0.0	0.0
093	8/8/2018	11:06:32	0.0	0.0	0.0	0.0
094	8/8/2018	11:07:32	0.0	0.0	0.0	0.0
095	8/8/2018	11:08:32	0.0	0.0	0.0	0.0
096	8/8/2018	11:09:32	0.0	0.0	0.0	0.0
097	8/8/2018	11:10:32	0.0	0.0	0.0	0.0
098	8/8/2018	11:11:32	0.0	0.0	0.0	0.0
099	8/8/2018	11:12:32	0.0	0.0	0.0	0.0
100	8/8/2018	11:13:32	0.0	0.0	0.0	0.0
101	8/8/2018	11:14:32	0.0	0.0	0.0	0.0
102	8/8/2018	11:15:32	0.0	0.0	0.0	0.0
103	8/8/2018	11:16:32	0.0	0.0	0.0	0.0
104	8/8/2018	11:17:32	0.0	0.0	0.0	0.0
105	8/8/2018	11:18:32	0.0	0.0	0.0	0.0
106	8/8/2018	11:19:32	0.0	0.0	0.0	0.0
107	8/8/2018	11:20:32	0.0	0.0	0.0	0.0
108	8/8/2018	11:21:32	0.0	0.0	0.0	0.0
109	8/8/2018	11:22:32	0.0	0.0	0.0	0.0
110	8/8/2018	11:23:32	0.0	0.0	0.0	0.0
111	8/8/2018	11:24:32	0.0	0.0	0.0	0.0
112	8/8/2018	11:25:32	0.0	0.0	0.0	0.0
113	8/8/2018	11:26:32	0.0	0.0	0.0	0.0
114	8/8/2018	11:27:32	0.0	0.0	0.0	0.0
115	8/8/2018	11:28:32	0.0	0.0	0.0	0.0
116	8/8/2018	11:29:32	0.0	0.0	0.0	0.0
117	8/8/2018	11:30:32	0.0	0.0	0.0	0.0
118	8/8/2018	11:31:32	0.0	0.0	0.0	0.0
119	8/8/2018	11:32:32	0.0	0.0	0.0	0.0
120	8/8/2018	11:33:32	0.0	0.0	0.0	0.0
121	8/8/2018	11:34:32	0.0	0.0	0.0	0.0
122	8/8/2018	11:35:32	0.0	0.0	0.0	0.0
123	8/8/2018	11:36:32	0.0	0.0	0.0	0.0
124	8/8/2018	11:37:32	0.0	0.0	0.0	0.0
125	8/8/2018	11:38:32	0.0	0.0	0.0	0.0
126	8/8/2018	11:39:32	0.0	0.0	0.0	0.0
127	8/8/2018	11:40:32	0.0	0.0	0.0	0.0
128	8/8/2018	11:41:32	0.0	0.0	0.0	0.0
129	8/8/2018	11:42:32	0.0	0.0	0.0	0.0
130	8/8/2018	11:43:32	0.0	0.0	0.0	0.0
131	8/8/2018	11:44:32	0.0	0.0	0.0	0.0
132	8/8/2018	11:45:32	0.0	0.0	0.0	0.0

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133	8/8/2018	11:46:32	0.0	0.0	0.0	0.0
134	8/8/2018	11:47:32	0.0	0.0	0.0	0.0
135	8/8/2018	11:48:32	0.0	0.0	0.0	0.0
136	8/8/2018	11:49:32	0.0	0.0	0.0	0.0
137	8/8/2018	11:50:32	0.0	0.0	0.0	0.0
138	8/8/2018	11:51:32	0.0	0.0	0.0	0.0
139	8/8/2018	11:52:32	0.0	0.0	0.0	0.0
140	8/8/2018	11:53:32	0.0	0.0	0.0	0.0
141	8/8/2018	11:54:32	0.0	0.0	0.0	0.0
142	8/8/2018	11:55:32	0.0	0.0	0.0	0.0
143	8/8/2018	11:56:32	0.0	0.0	0.0	0.0
144	8/8/2018	11:57:32	0.0	0.0	0.0	0.0
145	8/8/2018	11:58:32	0.0	0.0	0.0	0.0
146	8/8/2018	11:59:32	0.0	0.0	0.0	0.0
147	8/8/2018	12:00:32	0.0	0.0	0.0	0.0
148	8/8/2018	12:01:32	0.0	0.0	0.0	0.0
149	8/8/2018	12:02:32	0.0	0.0	0.0	0.0
150	8/8/2018	12:03:32	0.0	0.0	0.0	0.0
151	8/8/2018	12:04:32	0.0	0.0	0.0	0.0
152	8/8/2018	12:05:32	0.0	0.0	0.0	0.0
153	8/8/2018	12:06:32	0.0	0.0	0.0	0.0
154	8/8/2018	12:07:32	0.0	0.0	0.0	0.0
155	8/8/2018	12:08:32	0.0	0.0	0.0	0.0
156	8/8/2018	12:09:32	0.0	0.0	0.0	0.0
157	8/8/2018	12:10:32	0.0	0.0	0.0	0.0
158	8/8/2018	12:11:32	0.0	0.0	0.0	0.0
159	8/8/2018	12:12:32	0.0	0.0	0.0	0.0
160	8/8/2018	12:13:32	0.0	0.0	0.0	0.0
161	8/8/2018	12:14:32	0.0	0.0	0.0	0.0
162	8/8/2018	12:15:32	0.0	0.0	0.0	0.0
163	8/8/2018	12:16:32	0.0	0.0	0.0	0.0
164	8/8/2018	12:17:32	0.0	0.0	0.0	0.0
165	8/8/2018	12:18:32	0.0	0.0	0.0	0.0
166	8/8/2018	12:19:32	0.0	0.0	0.0	0.0
167	8/8/2018	12:20:32	0.0	0.0	0.0	0.0
168	8/8/2018	12:21:32	0.0	0.0	0.0	0.0
169	8/8/2018	12:22:32	0.0	0.0	0.0	0.0
170	8/8/2018	12:23:32	0.0	0.0	0.0	0.0
171	8/8/2018	12:24:32	0.0	0.0	0.0	0.0
172	8/8/2018	12:25:32	0.0	0.0	0.0	0.0
173	8/8/2018	12:26:32	0.0	0.0	0.0	0.0
174	8/8/2018	12:27:32	0.0	0.0	0.0	0.0
175	8/8/2018	12:28:32	0.0	0.0	0.0	0.0
176	8/8/2018	12:29:32	0.0	0.0	0.0	0.0
177	8/8/2018	12:30:32	0.0	0.0	0.0	0.0
178	8/8/2018	12:31:32	0.0	0.0	0.0	0.0
179	8/8/2018	12:32:32	0.0	0.0	0.0	0.0
180	8/8/2018	12:33:32	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

181	8/8/2018	12:34:32	0.0	0.0	0.0	0.0
182	8/8/2018	12:35:32	0.0	0.0	0.0	0.0
183	8/8/2018	12:36:32	0.0	0.0	0.0	0.0
184	8/8/2018	12:37:32	0.0	0.0	0.0	0.0
185	8/8/2018	12:38:32	0.0	0.0	0.0	0.0
186	8/8/2018	12:39:32	0.0	0.0	0.0	0.0
187	8/8/2018	12:40:32	0.0	0.0	0.0	0.0
188	8/8/2018	12:41:32	0.0	0.0	0.0	0.0
189	8/8/2018	12:42:32	0.0	0.0	0.0	0.0
190	8/8/2018	12:43:32	0.0	0.0	0.0	0.0
191	8/8/2018	12:44:32	0.0	0.0	0.0	0.0
192	8/8/2018	12:45:32	0.0	0.0	0.0	0.0
193	8/8/2018	12:46:32	0.0	0.0	0.0	0.0
194	8/8/2018	12:47:32	0.0	0.0	0.0	0.0
195	8/8/2018	12:48:32	0.0	0.0	0.0	0.0
196	8/8/2018	12:49:32	0.0	0.0	0.0	0.0
197	8/8/2018	12:50:32	0.0	0.0	0.0	0.0
198	8/8/2018	12:51:32	0.0	0.0	0.0	0.0
199	8/8/2018	12:52:32	0.0	0.0	0.0	0.0
200	8/8/2018	12:53:32	0.0	0.0	0.0	0.0
201	8/8/2018	12:54:32	0.0	0.0	0.0	0.0
202	8/8/2018	12:55:32	0.0	0.0	0.0	0.0
203	8/8/2018	12:56:32	0.0	0.0	0.0	0.0
204	8/8/2018	12:57:32	0.0	0.0	0.0	0.0
205	8/8/2018	12:58:32	0.0	0.0	0.0	0.0
206	8/8/2018	12:59:32	0.0	0.0	0.0	0.0
207	8/8/2018	13:00:32	0.0	0.0	0.0	0.0
208	8/8/2018	13:01:32	0.0	0.0	0.0	0.0
209	8/8/2018	13:02:32	0.0	0.0	0.0	0.0
210	8/8/2018	13:03:32	0.0	0.0	0.0	0.0
211	8/8/2018	13:04:32	0.0	0.0	0.0	0.0
212	8/8/2018	13:05:32	0.0	0.0	0.0	0.0
213	8/8/2018	13:06:32	0.0	0.0	0.0	0.0
214	8/8/2018	13:07:32	0.0	0.0	0.0	0.0
215	8/8/2018	13:08:32	0.0	0.0	0.0	0.0
216	8/8/2018	13:09:32	0.0	0.0	0.0	0.0
217	8/8/2018	13:10:32	0.0	0.0	0.0	0.0
218	8/8/2018	13:11:32	0.0	0.0	0.0	0.0
219	8/8/2018	13:12:32	0.0	0.0	0.0	0.0
220	8/8/2018	13:13:32	0.0	0.0	0.0	0.0
221	8/8/2018	13:14:32	0.0	0.0	0.0	0.0
222	8/8/2018	13:15:32	0.0	0.0	0.0	0.0
223	8/8/2018	13:16:32	0.0	0.0	0.0	0.0
224	8/8/2018	13:17:32	0.0	0.0	0.0	0.0
225	8/8/2018	13:18:32	0.0	0.0	0.0	0.0
226	8/8/2018	13:19:32	0.0	0.0	0.0	0.0
227	8/8/2018	13:20:32	0.0	0.0	0.0	0.0
228	8/8/2018	13:21:32	0.0	0.0	0.0	0.0

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229	8/8/2018	13:22:32	0.0	0.0	0.0	0.0
230	8/8/2018	13:23:32	0.0	0.0	0.0	0.0
231	8/8/2018	13:24:32	0.0	0.0	0.0	0.0
232	8/8/2018	13:25:32	0.0	0.0	0.0	0.0
233	8/8/2018	13:26:32	0.0	0.0	0.0	0.0
234	8/8/2018	13:27:32	0.0	0.0	0.0	0.0
235	8/8/2018	13:28:32	0.0	0.0	0.0	0.0
236	8/8/2018	13:29:32	0.0	0.0	0.0	0.0
237	8/8/2018	13:30:32	0.0	0.0	0.0	0.0
238	8/8/2018	13:31:32	0.0	0.0	0.0	0.0
239	8/8/2018	13:32:32	0.0	0.0	0.0	0.0
240	8/8/2018	13:33:32	0.0	0.0	0.0	0.0
241	8/8/2018	13:34:32	0.0	0.0	0.0	0.0
242	8/8/2018	13:35:32	0.0	0.0	0.0	0.0
243	8/8/2018	13:36:32	0.0	0.0	0.0	0.0
244	8/8/2018	13:37:32	0.0	0.0	0.0	0.0
245	8/8/2018	13:38:32	0.0	0.0	0.0	0.0
246	8/8/2018	13:39:32	0.0	0.0	0.0	0.0
247	8/8/2018	13:40:32	0.0	0.0	0.0	0.0
248	8/8/2018	13:41:32	0.0	0.0	0.0	0.0
249	8/8/2018	13:42:32	0.0	0.0	0.0	0.0
250	8/8/2018	13:43:32	0.0	0.0	0.0	0.0
251	8/8/2018	13:44:32	0.0	0.0	0.0	0.0
252	8/8/2018	13:45:32	0.0	0.0	0.0	0.0
253	8/8/2018	13:46:32	0.0	0.0	0.0	0.0
254	8/8/2018	13:47:32	0.0	0.0	0.0	0.0
255	8/8/2018	13:48:32	0.0	0.0	0.0	0.0
256	8/8/2018	13:49:32	0.0	0.0	0.0	0.0
257	8/8/2018	13:50:32	0.0	0.0	0.0	0.0
258	8/8/2018	13:51:32	0.0	0.0	0.0	0.0
259	8/8/2018	13:52:32	0.0	0.0	0.0	0.0
260	8/8/2018	13:53:32	0.0	0.0	0.0	0.0
261	8/8/2018	13:54:32	0.0	0.0	0.0	0.0
262	8/8/2018	13:55:32	0.0	0.0	0.0	0.0
263	8/8/2018	13:56:32	0.0	0.0	0.0	0.0
264	8/8/2018	13:57:32	0.0	0.0	0.0	0.0
265	8/8/2018	13:58:32	0.0	0.0	0.0	0.0
266	8/8/2018	13:59:32	0.0	0.0	0.0	0.0
267	8/8/2018	14:00:32	0.0	0.0	0.0	0.0
268	8/8/2018	14:01:32	0.0	0.0	0.0	0.0
269	8/8/2018	14:02:32	0.0	0.0	0.0	0.0
270	8/8/2018	14:03:32	0.0	0.0	0.0	0.0
271	8/8/2018	14:04:32	0.0	0.0	0.0	0.0
272	8/8/2018	14:05:32	0.0	0.0	0.0	0.0
273	8/8/2018	14:06:32	0.0	0.0	0.0	0.0
274	8/8/2018	14:07:32	0.0	0.0	0.0	0.0
275	8/8/2018	14:08:32	0.0	0.0	0.0	0.0
276	8/8/2018	14:09:32	0.0	0.0	0.0	0.0

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277	8/8/2018	14:10:32	0.0	0.0	0.0	0.0
278	8/8/2018	14:11:32	0.0	0.0	0.0	0.0
279	8/8/2018	14:12:32	0.0	0.0	0.0	0.0
280	8/8/2018	14:13:32	0.0	0.0	0.0	0.0
281	8/8/2018	14:14:32	0.0	0.0	0.0	0.0
282	8/8/2018	14:15:32	0.0	0.0	0.0	0.0
283	8/8/2018	14:16:32	0.0	0.0	0.0	0.0
284	8/8/2018	14:17:32	0.0	0.0	0.0	0.0
285	8/8/2018	14:18:32	0.0	0.0	0.0	0.0
286	8/8/2018	14:19:32	0.0	0.0	0.0	0.0
287	8/8/2018	14:20:32	0.0	0.0	0.0	0.0
288	8/8/2018	14:21:32	0.0	0.0	0.0	0.0
289	8/8/2018	14:22:32	0.0	0.0	0.0	0.0
290	8/8/2018	14:23:32	0.0	0.0	0.0	0.0
291	8/8/2018	14:24:32	0.0	0.0	0.0	0.0
292	8/8/2018	14:25:32	0.0	0.0	0.0	0.0
293	8/8/2018	14:26:32	0.0	0.0	0.0	0.0
294	8/8/2018	14:27:32	0.0	0.0	0.0	0.0
295	8/8/2018	14:28:32	0.0	0.0	0.0	0.0
296	8/8/2018	14:29:32	0.0	0.0	0.0	0.0
297	8/8/2018	14:30:32	0.0	0.0	0.0	0.0
298	8/8/2018	14:31:32	0.0	0.0	0.0	0.0
299	8/8/2018	14:32:32	0.0	0.0	0.0	0.0
300	8/8/2018	14:33:32	0.0	0.0	0.0	0.0
301	8/8/2018	14:34:32	0.0	0.0	0.0	0.0
302	8/8/2018	14:35:32	0.0	0.0	0.0	0.0
303	8/8/2018	14:36:32	0.0	0.0	0.0	0.0
304	8/8/2018	14:37:32	0.0	0.0	0.0	0.0
305	8/8/2018	14:38:32	0.0	0.0	0.0	0.0
306	8/8/2018	14:39:32	0.0	0.0	0.0	0.0
307	8/8/2018	14:40:32	0.0	0.0	0.0	0.0
308	8/8/2018	14:41:32	0.0	0.0	0.0	0.0
309	8/8/2018	14:42:32	0.0	0.0	0.0	0.0
310	8/8/2018	14:43:32	0.0	0.0	0.0	0.0
311	8/8/2018	14:44:32	0.0	0.0	0.0	0.0
312	8/8/2018	14:45:32	0.0	0.0	0.0	0.0
313	8/8/2018	14:46:32	0.0	0.0	0.0	0.0
314	8/8/2018	14:47:32	0.0	0.0	0.0	0.0
315	8/8/2018	14:48:32	0.0	0.0	0.0	0.0
316	8/8/2018	14:49:32	0.0	0.0	0.0	0.0
317	8/8/2018	14:50:32	0.0	0.0	0.0	0.0
318	8/8/2018	14:51:32	0.0	0.0	0.0	0.0
319	8/8/2018	14:52:32	0.0	0.0	0.0	0.0
320	8/8/2018	14:53:32	0.0	0.0	0.0	0.0
321	8/8/2018	14:54:32	0.0	0.0	0.0	0.0
322	8/8/2018	14:55:32	0.0	0.0	0.0	0.0
323	8/8/2018	14:56:32	0.0	0.0	0.0	0.0
324	8/8/2018	14:57:32	0.0	0.0	0.0	0.0

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325	8/8/2018	14:58:32	0.0	0.0	0.0	0.0
326	8/8/2018	14:59:32	0.0	0.0	0.0	0.0
327	8/8/2018	15:00:32	0.0	0.0	0.0	0.0
328	8/8/2018	15:01:32	0.0	0.0	0.0	0.0
329	8/8/2018	15:02:32	0.0	0.0	0.0	0.0
330	8/8/2018	15:03:32	0.0	0.0	0.0	0.0
331	8/8/2018	15:04:32	0.0	0.0	0.0	0.0
332	8/8/2018	15:05:32	0.0	0.0	0.0	0.0
333	8/8/2018	15:06:32	0.0	0.0	0.0	0.0
334	8/8/2018	15:07:32	0.0	0.0	0.0	0.0
335	8/8/2018	15:08:32	0.0	0.0	0.0	0.0
336	8/8/2018	15:09:32	0.0	0.0	0.0	0.0
337	8/8/2018	15:10:32	0.0	0.0	0.0	0.0
338	8/8/2018	15:11:32	0.0	0.0	0.0	0.0
339	8/8/2018	15:12:32	0.0	0.0	0.0	0.0
340	8/8/2018	15:13:32	0.0	0.0	0.0	0.0
341	8/8/2018	15:14:32	0.0	0.0	0.0	0.0
342	8/8/2018	15:15:32	0.0	0.0	0.0	0.0
343	8/8/2018	15:16:32	0.0	0.0	0.0	0.0
344	8/8/2018	15:17:32	0.0	0.0	0.0	0.0
345	8/8/2018	15:18:32	0.0	0.0	0.0	0.0
346	8/8/2018	15:19:32	0.0	0.0	0.0	0.0
347	8/8/2018	15:20:32	0.0	0.0	0.0	0.0
348	8/8/2018	15:21:32	0.0	0.0	0.0	0.0
349	8/8/2018	15:22:32	0.0	0.0	0.0	0.0
350	8/8/2018	15:23:32	0.0	0.0	0.0	0.0
351	8/8/2018	15:24:32	0.0	0.0	0.0	0.0
352	8/8/2018	15:25:32	0.0	0.0	0.0	0.0
353	8/8/2018	15:26:32	0.0	0.0	0.0	0.0
354	8/8/2018	15:27:32	0.0	0.0	0.0	0.0
355	8/8/2018	15:28:32	0.0	0.0	0.0	0.0
356	8/8/2018	15:29:32	0.0	0.0	0.0	0.0
357	8/8/2018	15:30:32	0.0	0.0	0.0	0.0
358	8/8/2018	15:31:32	0.0	0.0	0.0	0.0
359	8/8/2018	15:32:32	0.0	0.0	0.0	0.0
360	8/8/2018	15:33:32	0.0	0.0	0.0	0.0
361	8/8/2018	15:34:32	0.0	0.0	0.0	0.0
362	8/8/2018	15:35:32	0.0	0.0	0.0	0.0
363	8/8/2018	15:36:32	0.0	0.0	0.0	0.0
364	8/8/2018	15:37:32	0.0	0.0	0.0	0.0
365	8/8/2018	15:38:32	0.0	0.0	0.0	0.0
366	8/8/2018	15:39:32	0.0	0.0	0.0	0.0
367	8/8/2018	15:40:32	0.0	0.0	0.0	0.0
368	8/8/2018	15:41:32	0.0	0.0	0.0	0.0
369	8/8/2018	15:42:32	0.0	0.0	0.0	0.0
370	8/8/2018	15:43:32	0.0	0.0	0.0	0.0
371	8/8/2018	15:44:32	0.0	0.0	0.0	0.0
372	8/8/2018	15:45:32	0.0	0.0	0.0	0.0

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373	8/8/2018	15:46:32	0.0	0.0	0.0	0.0
374	8/8/2018	15:47:32	0.0	0.0	0.0	0.0
375	8/8/2018	15:48:32	0.0	0.0	0.0	0.0
376	8/8/2018	15:49:32	0.0	0.0	0.0	0.0
377	8/8/2018	15:50:32	0.0	0.0	0.0	0.0
378	8/8/2018	15:51:32	0.0	0.0	0.0	0.0
379	8/8/2018	15:52:32	0.0	0.0	0.0	0.0
380	8/8/2018	15:53:32	0.0	0.0	0.0	0.0
381	8/8/2018	15:54:32	0.0	0.0	0.0	0.0
382	8/8/2018	15:55:32	0.0	0.0	0.0	0.0
383	8/8/2018	15:56:32	0.0	0.0	0.0	0.0
384	8/8/2018	15:57:32	0.0	0.0	0.0	0.0
385	8/8/2018	15:58:32	0.0	0.0	0.0	0.0
386	8/8/2018	15:59:32	0.0	0.0	0.0	0.0
387	8/8/2018	16:00:32	0.0	0.0	0.0	0.0
388	8/8/2018	16:01:32	0.0	0.0	0.0	0.0
389	8/8/2018	16:02:32	0.0	0.0	0.0	0.0
390	8/8/2018	16:03:32	0.0	0.0	0.0	0.0
391	8/8/2018	16:04:32	0.0	0.0	0.0	0.0
392	8/8/2018	16:05:32	0.0	0.0	0.0	0.0
393	8/8/2018	16:06:32	0.0	0.0	0.0	0.0
394	8/8/2018	16:07:32	0.0	0.0	0.0	0.0
395	8/8/2018	16:08:32	0.0	0.0	0.0	0.0
396	8/8/2018	16:09:32	0.0	0.0	0.0	0.0
397	8/8/2018	16:10:32	0.0	0.0	0.0	0.0
398	8/8/2018	16:11:32	0.0	0.0	0.0	0.0
399	8/8/2018	16:12:32	0.0	0.0	0.0	0.0
400	8/8/2018	16:13:32	0.0	0.0	0.0	0.0
401	8/8/2018	16:14:32	0.0	0.0	0.0	0.0
402	8/8/2018	16:15:32	0.0	0.0	0.0	0.0
403	8/8/2018	16:16:32	0.0	0.0	0.0	0.0
404	8/8/2018	16:17:32	0.0	0.0	0.0	0.0
405	8/8/2018	16:18:32	0.0	0.0	0.0	0.0
406	8/8/2018	16:19:32	0.0	0.0	0.0	0.0
407	8/8/2018	16:20:32	0.0	0.0	0.0	0.0
408	8/8/2018	16:21:32	0.0	0.0	0.0	0.0
409	8/8/2018	16:22:32	0.0	0.0	0.0	0.0
410	8/8/2018	16:23:32	0.0	0.0	0.0	0.0
411	8/8/2018	16:24:32	0.0	0.0	0.0	0.0
412	8/8/2018	16:25:32	0.0	0.0	0.0	0.0
413	8/8/2018	16:26:32	0.0	0.0	0.0	0.0
414	8/8/2018	16:27:32	0.0	0.0	0.0	0.0
415	8/8/2018	16:28:32	0.0	0.0	0.0	0.0
416	8/8/2018	16:29:32	0.0	0.0	0.0	0.0
417	8/8/2018	16:30:32	0.0	0.0	0.0	0.0
418	8/8/2018	16:31:32	0.0	0.0	0.0	0.0
419	8/8/2018	16:32:32	0.0	0.0	0.0	0.0
420	8/8/2018	16:33:32	0.0	0.0	0.0	0.0

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421	8/8/2018	16:34:32	0.0	0.0	0.0	0.0
422	8/8/2018	16:35:32	0.0	0.0	0.0	0.0
423	8/8/2018	16:36:32	0.0	0.0	0.0	0.0
Peak			0.0	0.0	0.0	0.0
Min			0.0	0.0	0.0	0.0
Average			0.0	0.0	0.0	0.0

TWA/STEL

Index	Date/Time	PID(ppm) (TWA)	PID(ppm) (STEL)
001	8/8/2018 09:34:32	0.0	---
002	8/8/2018 09:35:32	0.0	---
003	8/8/2018 09:36:32	0.0	---
004	8/8/2018 09:37:32	0.0	---
005	8/8/2018 09:38:32	0.0	---
006	8/8/2018 09:39:32	0.0	---
007	8/8/2018 09:40:32	0.0	---
008	8/8/2018 09:41:32	0.0	---
009	8/8/2018 09:42:32	0.0	---
010	8/8/2018 09:43:32	0.0	---
011	8/8/2018 09:44:32	0.0	---
012	8/8/2018 09:45:32	0.0	---
013	8/8/2018 09:46:32	0.0	---
014	8/8/2018 09:47:32	0.0	---
015	8/8/2018 09:48:32	0.0	0.0
016	8/8/2018 09:49:32	0.0	0.0
017	8/8/2018 09:50:32	0.0	0.0
018	8/8/2018 09:51:32	0.0	0.0
019	8/8/2018 09:52:32	0.0	0.0
020	8/8/2018 09:53:32	0.0	0.0
021	8/8/2018 09:54:32	0.0	0.0
022	8/8/2018 09:55:32	0.0	0.0
023	8/8/2018 09:56:32	0.0	0.0
024	8/8/2018 09:57:32	0.0	0.0
025	8/8/2018 09:58:32	0.0	0.0
026	8/8/2018 09:59:32	0.0	0.0
027	8/8/2018 10:00:32	0.0	0.0
028	8/8/2018 10:01:32	0.0	0.0
029	8/8/2018 10:02:32	0.0	0.0
030	8/8/2018 10:03:32	0.0	0.0
031	8/8/2018 10:04:32	0.0	0.0
032	8/8/2018 10:05:32	0.0	0.0
033	8/8/2018 10:06:32	0.0	0.0
034	8/8/2018 10:07:32	0.0	0.0
035	8/8/2018 10:08:32	0.0	0.0
036	8/8/2018 10:09:32	0.0	0.0
037	8/8/2018 10:10:32	0.0	0.0

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038	8/8/2018	10:11:32	0.0	0.0
039	8/8/2018	10:12:32	0.0	0.0
040	8/8/2018	10:13:32	0.0	0.0
041	8/8/2018	10:14:32	0.0	0.0
042	8/8/2018	10:15:32	0.0	0.0
043	8/8/2018	10:16:32	0.0	0.0
044	8/8/2018	10:17:32	0.0	0.0
045	8/8/2018	10:18:32	0.0	0.0
046	8/8/2018	10:19:32	0.0	0.0
047	8/8/2018	10:20:32	0.0	0.0
048	8/8/2018	10:21:32	0.0	0.0
049	8/8/2018	10:22:32	0.0	0.0
050	8/8/2018	10:23:32	0.0	0.0
051	8/8/2018	10:24:32	0.0	0.0
052	8/8/2018	10:25:32	0.0	0.0
053	8/8/2018	10:26:32	0.0	0.0
054	8/8/2018	10:27:32	0.0	0.0
055	8/8/2018	10:28:32	0.0	0.0
056	8/8/2018	10:29:32	0.0	0.0
057	8/8/2018	10:30:32	0.0	0.0
058	8/8/2018	10:31:32	0.0	0.0
059	8/8/2018	10:32:32	0.0	0.0
060	8/8/2018	10:33:32	0.0	0.0
061	8/8/2018	10:34:32	0.0	0.0
062	8/8/2018	10:35:32	0.0	0.0
063	8/8/2018	10:36:32	0.0	0.0
064	8/8/2018	10:37:32	0.0	0.0
065	8/8/2018	10:38:32	0.0	0.0
066	8/8/2018	10:39:32	0.0	0.0
067	8/8/2018	10:40:32	0.0	0.0
068	8/8/2018	10:41:32	0.0	0.0
069	8/8/2018	10:42:32	0.0	0.0
070	8/8/2018	10:43:32	0.0	0.0
071	8/8/2018	10:44:32	0.0	0.0
072	8/8/2018	10:45:32	0.0	0.0
073	8/8/2018	10:46:32	0.0	0.0
074	8/8/2018	10:47:32	0.0	0.0
075	8/8/2018	10:48:32	0.0	0.0
076	8/8/2018	10:49:32	0.0	0.0
077	8/8/2018	10:50:32	0.0	0.0
078	8/8/2018	10:51:32	0.0	0.0
079	8/8/2018	10:52:32	0.0	0.0
080	8/8/2018	10:53:32	0.0	0.0
081	8/8/2018	10:54:32	0.0	0.0
082	8/8/2018	10:55:32	0.0	0.0
083	8/8/2018	10:56:32	0.0	0.0
084	8/8/2018	10:57:32	0.0	0.0
085	8/8/2018	10:58:32	0.0	0.0

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086	8/8/2018	10:59:32	0.0	0.0
087	8/8/2018	11:00:32	0.0	0.0
088	8/8/2018	11:01:32	0.0	0.0
089	8/8/2018	11:02:32	0.0	0.0
090	8/8/2018	11:03:32	0.0	0.0
091	8/8/2018	11:04:32	0.0	0.0
092	8/8/2018	11:05:32	0.0	0.0
093	8/8/2018	11:06:32	0.0	0.0
094	8/8/2018	11:07:32	0.0	0.0
095	8/8/2018	11:08:32	0.0	0.0
096	8/8/2018	11:09:32	0.0	0.0
097	8/8/2018	11:10:32	0.0	0.0
098	8/8/2018	11:11:32	0.0	0.0
099	8/8/2018	11:12:32	0.0	0.0
100	8/8/2018	11:13:32	0.0	0.0
101	8/8/2018	11:14:32	0.0	0.0
102	8/8/2018	11:15:32	0.0	0.0
103	8/8/2018	11:16:32	0.0	0.0
104	8/8/2018	11:17:32	0.0	0.0
105	8/8/2018	11:18:32	0.0	0.0
106	8/8/2018	11:19:32	0.0	0.0
107	8/8/2018	11:20:32	0.0	0.0
108	8/8/2018	11:21:32	0.0	0.0
109	8/8/2018	11:22:32	0.0	0.0
110	8/8/2018	11:23:32	0.0	0.0
111	8/8/2018	11:24:32	0.0	0.0
112	8/8/2018	11:25:32	0.0	0.0
113	8/8/2018	11:26:32	0.0	0.0
114	8/8/2018	11:27:32	0.0	0.0
115	8/8/2018	11:28:32	0.0	0.0
116	8/8/2018	11:29:32	0.0	0.0
117	8/8/2018	11:30:32	0.0	0.0
118	8/8/2018	11:31:32	0.0	0.0
119	8/8/2018	11:32:32	0.0	0.0
120	8/8/2018	11:33:32	0.0	0.0
121	8/8/2018	11:34:32	0.0	0.0
122	8/8/2018	11:35:32	0.0	0.0
123	8/8/2018	11:36:32	0.0	0.0
124	8/8/2018	11:37:32	0.0	0.0
125	8/8/2018	11:38:32	0.0	0.0
126	8/8/2018	11:39:32	0.0	0.0
127	8/8/2018	11:40:32	0.0	0.0
128	8/8/2018	11:41:32	0.0	0.0
129	8/8/2018	11:42:32	0.0	0.0
130	8/8/2018	11:43:32	0.0	0.0
131	8/8/2018	11:44:32	0.0	0.0
132	8/8/2018	11:45:32	0.0	0.0
133	8/8/2018	11:46:32	0.0	0.0

134	8/8/2018	11:47:32	0.0	0.0
135	8/8/2018	11:48:32	0.0	0.0
136	8/8/2018	11:49:32	0.0	0.0
137	8/8/2018	11:50:32	0.0	0.0
138	8/8/2018	11:51:32	0.0	0.0
139	8/8/2018	11:52:32	0.0	0.0
140	8/8/2018	11:53:32	0.0	0.0
141	8/8/2018	11:54:32	0.0	0.0
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143	8/8/2018	11:56:32	0.0	0.0
144	8/8/2018	11:57:32	0.0	0.0
145	8/8/2018	11:58:32	0.0	0.0
146	8/8/2018	11:59:32	0.0	0.0
147	8/8/2018	12:00:32	0.0	0.0
148	8/8/2018	12:01:32	0.0	0.0
149	8/8/2018	12:02:32	0.0	0.0
150	8/8/2018	12:03:32	0.0	0.0
151	8/8/2018	12:04:32	0.0	0.0
152	8/8/2018	12:05:32	0.0	0.0
153	8/8/2018	12:06:32	0.0	0.0
154	8/8/2018	12:07:32	0.0	0.0
155	8/8/2018	12:08:32	0.0	0.0
156	8/8/2018	12:09:32	0.0	0.0
157	8/8/2018	12:10:32	0.0	0.0
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163	8/8/2018	12:16:32	0.0	0.0
164	8/8/2018	12:17:32	0.0	0.0
165	8/8/2018	12:18:32	0.0	0.0
166	8/8/2018	12:19:32	0.0	0.0
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175	8/8/2018	12:28:32	0.0	0.0
176	8/8/2018	12:29:32	0.0	0.0
177	8/8/2018	12:30:32	0.0	0.0
178	8/8/2018	12:31:32	0.0	0.0
179	8/8/2018	12:32:32	0.0	0.0
180	8/8/2018	12:33:32	0.0	0.0
181	8/8/2018	12:34:32	0.0	0.0

182	8/8/2018	12:35:32	0.0	0.0
183	8/8/2018	12:36:32	0.0	0.0
184	8/8/2018	12:37:32	0.0	0.0
185	8/8/2018	12:38:32	0.0	0.0
186	8/8/2018	12:39:32	0.0	0.0
187	8/8/2018	12:40:32	0.0	0.0
188	8/8/2018	12:41:32	0.0	0.0
189	8/8/2018	12:42:32	0.0	0.0
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202	8/8/2018	12:55:32	0.0	0.0
203	8/8/2018	12:56:32	0.0	0.0
204	8/8/2018	12:57:32	0.0	0.0
205	8/8/2018	12:58:32	0.0	0.0
206	8/8/2018	12:59:32	0.0	0.0
207	8/8/2018	13:00:32	0.0	0.0
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209	8/8/2018	13:02:32	0.0	0.0
210	8/8/2018	13:03:32	0.0	0.0
211	8/8/2018	13:04:32	0.0	0.0
212	8/8/2018	13:05:32	0.0	0.0
213	8/8/2018	13:06:32	0.0	0.0
214	8/8/2018	13:07:32	0.0	0.0
215	8/8/2018	13:08:32	0.0	0.0
216	8/8/2018	13:09:32	0.0	0.0
217	8/8/2018	13:10:32	0.0	0.0
218	8/8/2018	13:11:32	0.0	0.0
219	8/8/2018	13:12:32	0.0	0.0
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221	8/8/2018	13:14:32	0.0	0.0
222	8/8/2018	13:15:32	0.0	0.0
223	8/8/2018	13:16:32	0.0	0.0
224	8/8/2018	13:17:32	0.0	0.0
225	8/8/2018	13:18:32	0.0	0.0
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227	8/8/2018	13:20:32	0.0	0.0
228	8/8/2018	13:21:32	0.0	0.0
229	8/8/2018	13:22:32	0.0	0.0

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234	8/8/2018	13:27:32	0.0	0.0
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248	8/8/2018	13:41:32	0.0	0.0
249	8/8/2018	13:42:32	0.0	0.0
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255	8/8/2018	13:48:32	0.0	0.0
256	8/8/2018	13:49:32	0.0	0.0
257	8/8/2018	13:50:32	0.0	0.0
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265	8/8/2018	13:58:32	0.0	0.0
266	8/8/2018	13:59:32	0.0	0.0
267	8/8/2018	14:00:32	0.0	0.0
268	8/8/2018	14:01:32	0.0	0.0
269	8/8/2018	14:02:32	0.0	0.0
270	8/8/2018	14:03:32	0.0	0.0
271	8/8/2018	14:04:32	0.0	0.0
272	8/8/2018	14:05:32	0.0	0.0
273	8/8/2018	14:06:32	0.0	0.0
274	8/8/2018	14:07:32	0.0	0.0
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277	8/8/2018	14:10:32	0.0	0.0

278	8/8/2018	14:11:32	0.0	0.0
279	8/8/2018	14:12:32	0.0	0.0
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281	8/8/2018	14:14:32	0.0	0.0
282	8/8/2018	14:15:32	0.0	0.0
283	8/8/2018	14:16:32	0.0	0.0
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302	8/8/2018	14:35:32	0.0	0.0
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324	8/8/2018	14:57:32	0.0	0.0
325	8/8/2018	14:58:32	0.0	0.0

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372	8/8/2018	15:45:32	0.0	0.0
373	8/8/2018	15:46:32	0.0	0.0

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389	8/8/2018	16:02:32	0.0	0.0
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394	8/8/2018	16:07:32	0.0	0.0
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420	8/8/2018	16:33:32	0.0	0.0
421	8/8/2018	16:34:32	0.0	0.0

422 8/8/2018 16:35:32 0.0 0.0
423 8/8/2018 16:36:32 0.0 0.0

=====
18/08/09 08:28

Summary

Unit Name MiniRAE 3000(PGM-7320)
Unit SN 592-919975
Unit Firmware Ver V2.14

Running Mode Hygiene Mode
Datalog Mode Manual
Diagnostic Mode No
Stop Reason Power Down

Site ID RAE00000
User ID UW000000

Begin 8/9/2018 08:28:22
End 8/9/2018 18:14:40
Sample Period(s) 60
Number of Records 586

Sensor PID(ppm)
Sensor SN S023030116U2
Measure Type Min; Avg; Max; Real
Span 100.0
Span 2 1000.0
Low Alarm 50.0
High Alarm 100.0
Over Alarm 15000.0
STEL Alarm 25.0
TWA Alarm 10.0
Measurement Gas Isobutylene
Calibration Time 8/9/2018 08:06
Peak 0.0
Min 0.0
Average 0.0

Datalog

Index	Date/Time	PID(ppm) (Min)	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)	PID(ppm)
001	8/9/2018 08:29:22	0.0	0.0	0.0	0.0	0.0
002	8/9/2018 08:30:22	0.0	0.0	0.0	0.0	0.0
003	8/9/2018 08:31:22	0.0	0.0	0.0	0.0	0.0
004	8/9/2018 08:32:22	0.0	0.0	0.0	0.0	0.0

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005	8/9/2018	08:33:22	0.0	0.0	0.0	0.0
006	8/9/2018	08:34:22	0.0	0.0	0.0	0.0
007	8/9/2018	08:35:22	0.0	0.0	0.0	0.0
008	8/9/2018	08:36:22	0.0	0.0	0.0	0.0
009	8/9/2018	08:37:22	0.0	0.0	0.0	0.0
010	8/9/2018	08:38:22	0.0	0.0	0.0	0.0
011	8/9/2018	08:39:22	0.0	0.0	0.0	0.0
012	8/9/2018	08:40:22	0.0	0.0	0.0	0.0
013	8/9/2018	08:41:22	0.0	0.0	0.0	0.0
014	8/9/2018	08:42:22	0.0	0.0	0.0	0.0
015	8/9/2018	08:43:22	0.0	0.0	0.0	0.0
016	8/9/2018	08:44:22	0.0	0.0	0.0	0.0
017	8/9/2018	08:45:22	0.0	0.0	0.0	0.0
018	8/9/2018	08:46:22	0.0	0.0	0.0	0.0
019	8/9/2018	08:47:22	0.0	0.0	0.0	0.0
020	8/9/2018	08:48:22	0.0	0.0	0.0	0.0
021	8/9/2018	08:49:22	0.0	0.0	0.0	0.0
022	8/9/2018	08:50:22	0.0	0.0	0.0	0.0
023	8/9/2018	08:51:22	0.0	0.0	0.0	0.0
024	8/9/2018	08:52:22	0.0	0.0	0.0	0.0
025	8/9/2018	08:53:22	0.0	0.0	0.0	0.0
026	8/9/2018	08:54:22	0.0	0.0	0.0	0.0
027	8/9/2018	08:55:22	0.0	0.0	0.0	0.0
028	8/9/2018	08:56:22	0.0	0.0	0.0	0.0
029	8/9/2018	08:57:22	0.0	0.0	0.0	0.0
030	8/9/2018	08:58:22	0.0	0.0	0.0	0.0
031	8/9/2018	08:59:22	0.0	0.0	0.0	0.0
032	8/9/2018	09:00:22	0.0	0.0	0.0	0.0
033	8/9/2018	09:01:22	0.0	0.0	0.0	0.0
034	8/9/2018	09:02:22	0.0	0.0	0.0	0.0
035	8/9/2018	09:03:22	0.0	0.0	0.0	0.0
036	8/9/2018	09:04:22	0.0	0.0	0.0	0.0
037	8/9/2018	09:05:22	0.0	0.0	0.0	0.0
038	8/9/2018	09:06:22	0.0	0.0	0.0	0.0
039	8/9/2018	09:07:22	0.0	0.0	0.0	0.0
040	8/9/2018	09:08:22	0.0	0.0	0.0	0.0
041	8/9/2018	09:09:22	0.0	0.0	0.0	0.0
042	8/9/2018	09:10:22	0.0	0.0	0.0	0.0
043	8/9/2018	09:11:22	0.0	0.0	0.0	0.0
044	8/9/2018	09:12:22	0.0	0.0	0.0	0.0
045	8/9/2018	09:13:22	0.0	0.0	0.0	0.0
046	8/9/2018	09:14:22	0.0	0.0	0.0	0.0
047	8/9/2018	09:15:22	0.0	0.0	0.0	0.0
048	8/9/2018	09:16:22	0.0	0.0	0.0	0.0
049	8/9/2018	09:17:22	0.0	0.0	0.0	0.0
050	8/9/2018	09:18:22	0.0	0.0	0.0	0.0
051	8/9/2018	09:19:22	0.0	0.0	0.0	0.0
052	8/9/2018	09:20:22	0.0	0.0	0.0	0.0

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053	8/9/2018	09:21:22	0.0	0.0	0.0	0.0
054	8/9/2018	09:22:22	0.0	0.0	0.0	0.0
055	8/9/2018	09:23:22	0.0	0.0	0.0	0.0
056	8/9/2018	09:24:22	0.0	0.0	0.0	0.0
057	8/9/2018	09:25:22	0.0	0.0	0.0	0.0
058	8/9/2018	09:26:22	0.0	0.0	0.0	0.0
059	8/9/2018	09:27:22	0.0	0.0	0.0	0.0
060	8/9/2018	09:28:22	0.0	0.0	0.0	0.0
061	8/9/2018	09:29:22	0.0	0.0	0.0	0.0
062	8/9/2018	09:30:22	0.0	0.0	0.0	0.0
063	8/9/2018	09:31:22	0.0	0.0	0.0	0.0
064	8/9/2018	09:32:22	0.0	0.0	0.0	0.0
065	8/9/2018	09:33:22	0.0	0.0	0.0	0.0
066	8/9/2018	09:34:22	0.0	0.0	0.0	0.0
067	8/9/2018	09:35:22	0.0	0.0	0.0	0.0
068	8/9/2018	09:36:22	0.0	0.0	0.0	0.0
069	8/9/2018	09:37:22	0.0	0.0	0.0	0.0
070	8/9/2018	09:38:22	0.0	0.0	0.0	0.0
071	8/9/2018	09:39:22	0.0	0.0	0.0	0.0
072	8/9/2018	09:40:22	0.0	0.0	0.0	0.0
073	8/9/2018	09:41:22	0.0	0.0	0.0	0.0
074	8/9/2018	09:42:22	0.0	0.0	0.0	0.0
075	8/9/2018	09:43:22	0.0	0.0	0.0	0.0
076	8/9/2018	09:44:22	0.0	0.0	0.0	0.0
077	8/9/2018	09:45:22	0.0	0.0	0.0	0.0
078	8/9/2018	09:46:22	0.0	0.0	0.0	0.0
079	8/9/2018	09:47:22	0.0	0.0	0.0	0.0
080	8/9/2018	09:48:22	0.0	0.0	0.0	0.0
081	8/9/2018	09:49:22	0.0	0.0	0.0	0.0
082	8/9/2018	09:50:22	0.0	0.0	0.0	0.0
083	8/9/2018	09:51:22	0.0	0.0	0.0	0.0
084	8/9/2018	09:52:22	0.0	0.0	0.0	0.0
085	8/9/2018	09:53:22	0.0	0.0	0.0	0.0
086	8/9/2018	09:54:22	0.0	0.0	0.0	0.0
087	8/9/2018	09:55:22	0.0	0.0	0.0	0.0
088	8/9/2018	09:56:22	0.0	0.0	0.0	0.0
089	8/9/2018	09:57:22	0.0	0.0	0.0	0.0
090	8/9/2018	09:58:22	0.0	0.0	0.0	0.0
091	8/9/2018	09:59:22	0.0	0.0	0.0	0.0
092	8/9/2018	10:00:22	0.0	0.0	0.0	0.0
093	8/9/2018	10:01:22	0.0	0.0	0.0	0.0
094	8/9/2018	10:02:22	0.0	0.0	0.0	0.0
095	8/9/2018	10:03:22	0.0	0.0	0.0	0.0
096	8/9/2018	10:04:22	0.0	0.0	0.0	0.0
097	8/9/2018	10:05:22	0.0	0.0	0.0	0.0
098	8/9/2018	10:06:22	0.0	0.0	0.0	0.0
099	8/9/2018	10:07:22	0.0	0.0	0.0	0.0
100	8/9/2018	10:08:22	0.0	0.0	0.0	0.0

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101	8/9/2018	10:09:22	0.0	0.0	0.0	0.0
102	8/9/2018	10:10:22	0.0	0.0	0.0	0.0
103	8/9/2018	10:11:22	0.0	0.0	0.0	0.0
104	8/9/2018	10:12:22	0.0	0.0	0.0	0.0
105	8/9/2018	10:13:22	0.0	0.0	0.0	0.0
106	8/9/2018	10:14:22	0.0	0.0	0.0	0.0
107	8/9/2018	10:15:22	0.0	0.0	0.0	0.0
108	8/9/2018	10:16:22	0.0	0.0	0.0	0.0
109	8/9/2018	10:17:22	0.0	0.0	0.0	0.0
110	8/9/2018	10:18:22	0.0	0.0	0.0	0.0
111	8/9/2018	10:19:22	0.0	0.0	0.0	0.0
112	8/9/2018	10:20:22	0.0	0.0	0.0	0.0
113	8/9/2018	10:21:22	0.0	0.0	0.0	0.0
114	8/9/2018	10:22:22	0.0	0.0	0.0	0.0
115	8/9/2018	10:23:22	0.0	0.0	0.0	0.0
116	8/9/2018	10:24:22	0.0	0.0	0.0	0.0
117	8/9/2018	10:25:22	0.0	0.0	0.0	0.0
118	8/9/2018	10:26:22	0.0	0.0	0.0	0.0
119	8/9/2018	10:27:22	0.0	0.0	0.0	0.0
120	8/9/2018	10:28:22	0.0	0.0	0.0	0.0
121	8/9/2018	10:29:22	0.0	0.0	0.0	0.0
122	8/9/2018	10:30:22	0.0	0.0	0.0	0.0
123	8/9/2018	10:31:22	0.0	0.0	0.0	0.0
124	8/9/2018	10:32:22	0.0	0.0	0.0	0.0
125	8/9/2018	10:33:22	0.0	0.0	0.0	0.0
126	8/9/2018	10:34:22	0.0	0.0	0.0	0.0
127	8/9/2018	10:35:22	0.0	0.0	0.0	0.0
128	8/9/2018	10:36:22	0.0	0.0	0.0	0.0
129	8/9/2018	10:37:22	0.0	0.0	0.0	0.0
130	8/9/2018	10:38:22	0.0	0.0	0.0	0.0
131	8/9/2018	10:39:22	0.0	0.0	0.0	0.0
132	8/9/2018	10:40:22	0.0	0.0	0.0	0.0
133	8/9/2018	10:41:22	0.0	0.0	0.0	0.0
134	8/9/2018	10:42:22	0.0	0.0	0.0	0.0
135	8/9/2018	10:43:22	0.0	0.0	0.0	0.0
136	8/9/2018	10:44:22	0.0	0.0	0.0	0.0
137	8/9/2018	10:45:22	0.0	0.0	0.0	0.0
138	8/9/2018	10:46:22	0.0	0.0	0.0	0.0
139	8/9/2018	10:47:22	0.0	0.0	0.0	0.0
140	8/9/2018	10:48:22	0.0	0.0	0.0	0.0
141	8/9/2018	10:49:22	0.0	0.0	0.0	0.0
142	8/9/2018	10:50:22	0.0	0.0	0.0	0.0
143	8/9/2018	10:51:22	0.0	0.0	0.0	0.0
144	8/9/2018	10:52:22	0.0	0.0	0.0	0.0
145	8/9/2018	10:53:22	0.0	0.0	0.0	0.0
146	8/9/2018	10:54:22	0.0	0.0	0.0	0.0
147	8/9/2018	10:55:22	0.0	0.0	0.0	0.0
148	8/9/2018	10:56:22	0.0	0.0	0.0	0.0

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149	8/9/2018	10:57:22	0.0	0.0	0.0	0.0
150	8/9/2018	10:58:22	0.0	0.0	0.0	0.0
151	8/9/2018	10:59:22	0.0	0.0	0.0	0.0
152	8/9/2018	11:00:22	0.0	0.0	0.0	0.0
153	8/9/2018	11:01:22	0.0	0.0	0.0	0.0
154	8/9/2018	11:02:22	0.0	0.0	0.0	0.0
155	8/9/2018	11:03:22	0.0	0.0	0.0	0.0
156	8/9/2018	11:04:22	0.0	0.0	0.0	0.0
157	8/9/2018	11:05:22	0.0	0.0	0.0	0.0
158	8/9/2018	11:06:22	0.0	0.0	0.0	0.0
159	8/9/2018	11:07:22	0.0	0.0	0.0	0.0
160	8/9/2018	11:08:22	0.0	0.0	0.0	0.0
161	8/9/2018	11:09:22	0.0	0.0	0.0	0.0
162	8/9/2018	11:10:22	0.0	0.0	0.0	0.0
163	8/9/2018	11:11:22	0.0	0.0	0.0	0.0
164	8/9/2018	11:12:22	0.0	0.0	0.0	0.0
165	8/9/2018	11:13:22	0.0	0.0	0.0	0.0
166	8/9/2018	11:14:22	0.0	0.0	0.0	0.0
167	8/9/2018	11:15:22	0.0	0.0	0.0	0.0
168	8/9/2018	11:16:22	0.0	0.0	0.0	0.0
169	8/9/2018	11:17:22	0.0	0.0	0.0	0.0
170	8/9/2018	11:18:22	0.0	0.0	0.0	0.0
171	8/9/2018	11:19:22	0.0	0.0	0.0	0.0
172	8/9/2018	11:20:22	0.0	0.0	0.0	0.0
173	8/9/2018	11:21:22	0.0	0.0	0.0	0.0
174	8/9/2018	11:22:22	0.0	0.0	0.0	0.0
175	8/9/2018	11:23:22	0.0	0.0	0.0	0.0
176	8/9/2018	11:24:22	0.0	0.0	0.0	0.0
177	8/9/2018	11:25:22	0.0	0.0	0.0	0.0
178	8/9/2018	11:26:22	0.0	0.0	0.0	0.0
179	8/9/2018	11:27:22	0.0	0.0	0.0	0.0
180	8/9/2018	11:28:22	0.0	0.0	0.0	0.0
181	8/9/2018	11:29:22	0.0	0.0	0.0	0.0
182	8/9/2018	11:30:22	0.0	0.0	0.0	0.0
183	8/9/2018	11:31:22	0.0	0.0	0.0	0.0
184	8/9/2018	11:32:22	0.0	0.0	0.0	0.0
185	8/9/2018	11:33:22	0.0	0.0	0.0	0.0
186	8/9/2018	11:34:22	0.0	0.0	0.0	0.0
187	8/9/2018	11:35:22	0.0	0.0	0.0	0.0
188	8/9/2018	11:36:22	0.0	0.0	0.0	0.0
189	8/9/2018	11:37:22	0.0	0.0	0.0	0.0
190	8/9/2018	11:38:22	0.0	0.0	0.0	0.0
191	8/9/2018	11:39:22	0.0	0.0	0.0	0.0
192	8/9/2018	11:40:22	0.0	0.0	0.0	0.0
193	8/9/2018	11:41:22	0.0	0.0	0.0	0.0
194	8/9/2018	11:42:22	0.0	0.0	0.0	0.0
195	8/9/2018	11:43:22	0.0	0.0	0.0	0.0
196	8/9/2018	11:44:22	0.0	0.0	0.0	0.0

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197	8/9/2018	11:45:22	0.0	0.0	0.0	0.0
198	8/9/2018	11:46:22	0.0	0.0	0.0	0.0
199	8/9/2018	11:47:22	0.0	0.0	0.0	0.0
200	8/9/2018	11:48:22	0.0	0.0	0.0	0.0
201	8/9/2018	11:49:22	0.0	0.0	0.0	0.0
202	8/9/2018	11:50:22	0.0	0.0	0.0	0.0
203	8/9/2018	11:51:22	0.0	0.0	0.0	0.0
204	8/9/2018	11:52:22	0.0	0.0	0.0	0.0
205	8/9/2018	11:53:22	0.0	0.0	0.0	0.0
206	8/9/2018	11:54:22	0.0	0.0	0.0	0.0
207	8/9/2018	11:55:22	0.0	0.0	0.0	0.0
208	8/9/2018	11:56:22	0.0	0.0	0.0	0.0
209	8/9/2018	11:57:22	0.0	0.0	0.0	0.0
210	8/9/2018	11:58:22	0.0	0.0	0.0	0.0
211	8/9/2018	11:59:22	0.0	0.0	0.0	0.0
212	8/9/2018	12:00:22	0.0	0.0	0.0	0.0
213	8/9/2018	12:01:22	0.0	0.0	0.0	0.0
214	8/9/2018	12:02:22	0.0	0.0	0.0	0.0
215	8/9/2018	12:03:22	0.0	0.0	0.0	0.0
216	8/9/2018	12:04:22	0.0	0.0	0.0	0.0
217	8/9/2018	12:05:22	0.0	0.0	0.0	0.0
218	8/9/2018	12:06:22	0.0	0.0	0.0	0.0
219	8/9/2018	12:07:22	0.0	0.0	0.0	0.0
220	8/9/2018	12:08:22	0.0	0.0	0.0	0.0
221	8/9/2018	12:09:22	0.0	0.0	0.0	0.0
222	8/9/2018	12:10:22	0.0	0.0	0.0	0.0
223	8/9/2018	12:11:22	0.0	0.0	0.0	0.0
224	8/9/2018	12:12:22	0.0	0.0	0.0	0.0
225	8/9/2018	12:13:22	0.0	0.0	0.0	0.0
226	8/9/2018	12:14:22	0.0	0.0	0.0	0.0
227	8/9/2018	12:15:22	0.0	0.0	0.0	0.0
228	8/9/2018	12:16:22	0.0	0.0	0.0	0.0
229	8/9/2018	12:17:22	0.0	0.0	0.0	0.0
230	8/9/2018	12:18:22	0.0	0.0	0.0	0.0
231	8/9/2018	12:19:22	0.0	0.0	0.0	0.0
232	8/9/2018	12:20:22	0.0	0.0	0.0	0.0
233	8/9/2018	12:21:22	0.0	0.0	0.0	0.0
234	8/9/2018	12:22:22	0.0	0.0	0.0	0.0
235	8/9/2018	12:23:22	0.0	0.0	0.0	0.0
236	8/9/2018	12:24:22	0.0	0.0	0.0	0.0
237	8/9/2018	12:25:22	0.0	0.0	0.0	0.0
238	8/9/2018	12:26:22	0.0	0.0	0.0	0.0
239	8/9/2018	12:27:22	0.0	0.0	0.0	0.0
240	8/9/2018	12:28:22	0.0	0.0	0.0	0.0
241	8/9/2018	12:29:22	0.0	0.0	0.0	0.0
242	8/9/2018	12:30:22	0.0	0.0	0.0	0.0
243	8/9/2018	12:31:22	0.0	0.0	0.0	0.0
244	8/9/2018	12:32:22	0.0	0.0	0.0	0.0

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245	8/9/2018	12:33:22	0.0	0.0	0.0	0.0
246	8/9/2018	12:34:22	0.0	0.0	0.0	0.0
247	8/9/2018	12:35:22	0.0	0.0	0.0	0.0
248	8/9/2018	12:36:22	0.0	0.0	0.0	0.0
249	8/9/2018	12:37:22	0.0	0.0	0.0	0.0
250	8/9/2018	12:38:22	0.0	0.0	0.0	0.0
251	8/9/2018	12:39:22	0.0	0.0	0.0	0.0
252	8/9/2018	12:40:22	0.0	0.0	0.0	0.0
253	8/9/2018	12:41:22	0.0	0.0	0.0	0.0
254	8/9/2018	12:42:22	0.0	0.0	0.0	0.0
255	8/9/2018	12:43:22	0.0	0.0	0.0	0.0
256	8/9/2018	12:44:22	0.0	0.0	0.0	0.0
257	8/9/2018	12:45:22	0.0	0.0	0.0	0.0
258	8/9/2018	12:46:22	0.0	0.0	0.0	0.0
259	8/9/2018	12:47:22	0.0	0.0	0.0	0.0
260	8/9/2018	12:48:22	0.0	0.0	0.0	0.0
261	8/9/2018	12:49:22	0.0	0.0	0.0	0.0
262	8/9/2018	12:50:22	0.0	0.0	0.0	0.0
263	8/9/2018	12:51:22	0.0	0.0	0.0	0.0
264	8/9/2018	12:52:22	0.0	0.0	0.0	0.0
265	8/9/2018	12:53:22	0.0	0.0	0.0	0.0
266	8/9/2018	12:54:22	0.0	0.0	0.0	0.0
267	8/9/2018	12:55:22	0.0	0.0	0.0	0.0
268	8/9/2018	12:56:22	0.0	0.0	0.0	0.0
269	8/9/2018	12:57:22	0.0	0.0	0.0	0.0
270	8/9/2018	12:58:22	0.0	0.0	0.0	0.0
271	8/9/2018	12:59:22	0.0	0.0	0.0	0.0
272	8/9/2018	13:00:22	0.0	0.0	0.0	0.0
273	8/9/2018	13:01:22	0.0	0.0	0.0	0.0
274	8/9/2018	13:02:22	0.0	0.0	0.0	0.0
275	8/9/2018	13:03:22	0.0	0.0	0.0	0.0
276	8/9/2018	13:04:22	0.0	0.0	0.0	0.0
277	8/9/2018	13:05:22	0.0	0.0	0.0	0.0
278	8/9/2018	13:06:22	0.0	0.0	0.0	0.0
279	8/9/2018	13:07:22	0.0	0.0	0.0	0.0
280	8/9/2018	13:08:22	0.0	0.0	0.0	0.0
281	8/9/2018	13:09:22	0.0	0.0	0.0	0.0
282	8/9/2018	13:10:22	0.0	0.0	0.0	0.0
283	8/9/2018	13:11:22	0.0	0.0	0.0	0.0
284	8/9/2018	13:12:22	0.0	0.0	0.0	0.0
285	8/9/2018	13:13:22	0.0	0.0	0.0	0.0
286	8/9/2018	13:14:22	0.0	0.0	0.0	0.0
287	8/9/2018	13:15:22	0.0	0.0	0.0	0.0
288	8/9/2018	13:16:22	0.0	0.0	0.0	0.0
289	8/9/2018	13:17:22	0.0	0.0	0.0	0.0
290	8/9/2018	13:18:22	0.0	0.0	0.0	0.0
291	8/9/2018	13:19:22	0.0	0.0	0.0	0.0
292	8/9/2018	13:20:22	0.0	0.0	0.0	0.0

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293	8/9/2018	13:21:22	0.0	0.0	0.0	0.0
294	8/9/2018	13:22:22	0.0	0.0	0.0	0.0
295	8/9/2018	13:23:22	0.0	0.0	0.0	0.0
296	8/9/2018	13:24:22	0.0	0.0	0.0	0.0
297	8/9/2018	13:25:22	0.0	0.0	0.0	0.0
298	8/9/2018	13:26:22	0.0	0.0	0.0	0.0
299	8/9/2018	13:27:22	0.0	0.0	0.0	0.0
300	8/9/2018	13:28:22	0.0	0.0	0.0	0.0
301	8/9/2018	13:29:22	0.0	0.0	0.0	0.0
302	8/9/2018	13:30:22	0.0	0.0	0.0	0.0
303	8/9/2018	13:31:22	0.0	0.0	0.0	0.0
304	8/9/2018	13:32:22	0.0	0.0	0.0	0.0
305	8/9/2018	13:33:22	0.0	0.0	0.0	0.0
306	8/9/2018	13:34:22	0.0	0.0	0.0	0.0
307	8/9/2018	13:35:22	0.0	0.0	0.0	0.0
308	8/9/2018	13:36:22	0.0	0.0	0.0	0.0
309	8/9/2018	13:37:22	0.0	0.0	0.0	0.0
310	8/9/2018	13:38:22	0.0	0.0	0.0	0.0
311	8/9/2018	13:39:22	0.0	0.0	0.0	0.0
312	8/9/2018	13:40:22	0.0	0.0	0.0	0.0
313	8/9/2018	13:41:22	0.0	0.0	0.0	0.0
314	8/9/2018	13:42:22	0.0	0.0	0.0	0.0
315	8/9/2018	13:43:22	0.0	0.0	0.0	0.0
316	8/9/2018	13:44:22	0.0	0.0	0.0	0.0
317	8/9/2018	13:45:22	0.0	0.0	0.0	0.0
318	8/9/2018	13:46:22	0.0	0.0	0.0	0.0
319	8/9/2018	13:47:22	0.0	0.0	0.0	0.0
320	8/9/2018	13:48:22	0.0	0.0	0.0	0.0
321	8/9/2018	13:49:22	0.0	0.0	0.0	0.0
322	8/9/2018	13:50:22	0.0	0.0	0.0	0.0
323	8/9/2018	13:51:22	0.0	0.0	0.0	0.0
324	8/9/2018	13:52:22	0.0	0.0	0.0	0.0
325	8/9/2018	13:53:22	0.0	0.0	0.0	0.0
326	8/9/2018	13:54:22	0.0	0.0	0.0	0.0
327	8/9/2018	13:55:22	0.0	0.0	0.0	0.0
328	8/9/2018	13:56:22	0.0	0.0	0.0	0.0
329	8/9/2018	13:57:22	0.0	0.0	0.0	0.0
330	8/9/2018	13:58:22	0.0	0.0	0.0	0.0
331	8/9/2018	13:59:22	0.0	0.0	0.0	0.0
332	8/9/2018	14:00:22	0.0	0.0	0.0	0.0
333	8/9/2018	14:01:22	0.0	0.0	0.0	0.0
334	8/9/2018	14:02:22	0.0	0.0	0.0	0.0
335	8/9/2018	14:03:22	0.0	0.0	0.0	0.0
336	8/9/2018	14:04:22	0.0	0.0	0.0	0.0
337	8/9/2018	14:05:22	0.0	0.0	0.0	0.0
338	8/9/2018	14:06:22	0.0	0.0	0.0	0.0
339	8/9/2018	14:07:22	0.0	0.0	0.0	0.0
340	8/9/2018	14:08:22	0.0	0.0	0.0	0.0

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341	8/9/2018	14:09:22	0.0	0.0	0.0	0.0
342	8/9/2018	14:10:22	0.0	0.0	0.0	0.0
343	8/9/2018	14:11:22	0.0	0.0	0.0	0.0
344	8/9/2018	14:12:22	0.0	0.0	0.0	0.0
345	8/9/2018	14:13:22	0.0	0.0	0.0	0.0
346	8/9/2018	14:14:22	0.0	0.0	0.0	0.0
347	8/9/2018	14:15:22	0.0	0.0	0.0	0.0
348	8/9/2018	14:16:22	0.0	0.0	0.0	0.0
349	8/9/2018	14:17:22	0.0	0.0	0.0	0.0
350	8/9/2018	14:18:22	0.0	0.0	0.0	0.0
351	8/9/2018	14:19:22	0.0	0.0	0.0	0.0
352	8/9/2018	14:20:22	0.0	0.0	0.0	0.0
353	8/9/2018	14:21:22	0.0	0.0	0.0	0.0
354	8/9/2018	14:22:22	0.0	0.0	0.0	0.0
355	8/9/2018	14:23:22	0.0	0.0	0.0	0.0
356	8/9/2018	14:24:22	0.0	0.0	0.0	0.0
357	8/9/2018	14:25:22	0.0	0.0	0.0	0.0
358	8/9/2018	14:26:22	0.0	0.0	0.0	0.0
359	8/9/2018	14:27:22	0.0	0.0	0.0	0.0
360	8/9/2018	14:28:22	0.0	0.0	0.0	0.0
361	8/9/2018	14:29:22	0.0	0.0	0.0	0.0
362	8/9/2018	14:30:22	0.0	0.0	0.0	0.0
363	8/9/2018	14:31:22	0.0	0.0	0.0	0.0
364	8/9/2018	14:32:22	0.0	0.0	0.0	0.0
365	8/9/2018	14:33:22	0.0	0.0	0.0	0.0
366	8/9/2018	14:34:22	0.0	0.0	0.0	0.0
367	8/9/2018	14:35:22	0.0	0.0	0.0	0.0
368	8/9/2018	14:36:22	0.0	0.0	0.0	0.0
369	8/9/2018	14:37:22	0.0	0.0	0.0	0.0
370	8/9/2018	14:38:22	0.0	0.0	0.0	0.0
371	8/9/2018	14:39:22	0.0	0.0	0.0	0.0
372	8/9/2018	14:40:22	0.0	0.0	0.0	0.0
373	8/9/2018	14:41:22	0.0	0.0	0.0	0.0
374	8/9/2018	14:42:22	0.0	0.0	0.0	0.0
375	8/9/2018	14:43:22	0.0	0.0	0.0	0.0
376	8/9/2018	14:44:22	0.0	0.0	0.0	0.0
377	8/9/2018	14:45:22	0.0	0.0	0.0	0.0
378	8/9/2018	14:46:22	0.0	0.0	0.0	0.0
379	8/9/2018	14:47:22	0.0	0.0	0.0	0.0
380	8/9/2018	14:48:22	0.0	0.0	0.0	0.0
381	8/9/2018	14:49:22	0.0	0.0	0.0	0.0
382	8/9/2018	14:50:22	0.0	0.0	0.0	0.0
383	8/9/2018	14:51:22	0.0	0.0	0.0	0.0
384	8/9/2018	14:52:22	0.0	0.0	0.0	0.0
385	8/9/2018	14:53:22	0.0	0.0	0.0	0.0
386	8/9/2018	14:54:22	0.0	0.0	0.0	0.0
387	8/9/2018	14:55:22	0.0	0.0	0.0	0.0
388	8/9/2018	14:56:22	0.0	0.0	0.0	0.0

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389	8/9/2018	14:57:22	0.0	0.0	0.0	0.0
390	8/9/2018	14:58:22	0.0	0.0	0.0	0.0
391	8/9/2018	14:59:22	0.0	0.0	0.0	0.0
392	8/9/2018	15:00:22	0.0	0.0	0.0	0.0
393	8/9/2018	15:01:22	0.0	0.0	0.0	0.0
394	8/9/2018	15:02:22	0.0	0.0	0.0	0.0
395	8/9/2018	15:03:22	0.0	0.0	0.0	0.0
396	8/9/2018	15:04:22	0.0	0.0	0.0	0.0
397	8/9/2018	15:05:22	0.0	0.0	0.0	0.0
398	8/9/2018	15:06:22	0.0	0.0	0.0	0.0
399	8/9/2018	15:07:22	0.0	0.0	0.0	0.0
400	8/9/2018	15:08:22	0.0	0.0	0.0	0.0
401	8/9/2018	15:09:22	0.0	0.0	0.0	0.0
402	8/9/2018	15:10:22	0.0	0.0	0.0	0.0
403	8/9/2018	15:11:22	0.0	0.0	0.0	0.0
404	8/9/2018	15:12:22	0.0	0.0	0.0	0.0
405	8/9/2018	15:13:22	0.0	0.0	0.0	0.0
406	8/9/2018	15:14:22	0.0	0.0	0.0	0.0
407	8/9/2018	15:15:22	0.0	0.0	0.0	0.0
408	8/9/2018	15:16:22	0.0	0.0	0.0	0.0
409	8/9/2018	15:17:22	0.0	0.0	0.0	0.0
410	8/9/2018	15:18:22	0.0	0.0	0.0	0.0
411	8/9/2018	15:19:22	0.0	0.0	0.0	0.0
412	8/9/2018	15:20:22	0.0	0.0	0.0	0.0
413	8/9/2018	15:21:22	0.0	0.0	0.0	0.0
414	8/9/2018	15:22:22	0.0	0.0	0.0	0.0
415	8/9/2018	15:23:22	0.0	0.0	0.0	0.0
416	8/9/2018	15:24:22	0.0	0.0	0.0	0.0
417	8/9/2018	15:25:22	0.0	0.0	0.0	0.0
418	8/9/2018	15:26:22	0.0	0.0	0.0	0.0
419	8/9/2018	15:27:22	0.0	0.0	0.0	0.0
420	8/9/2018	15:28:22	0.0	0.0	0.0	0.0
421	8/9/2018	15:29:22	0.0	0.0	0.0	0.0
422	8/9/2018	15:30:22	0.0	0.0	0.0	0.0
423	8/9/2018	15:31:22	0.0	0.0	0.0	0.0
424	8/9/2018	15:32:22	0.0	0.0	0.0	0.0
425	8/9/2018	15:33:22	0.0	0.0	0.0	0.0
426	8/9/2018	15:34:22	0.0	0.0	0.0	0.0
427	8/9/2018	15:35:22	0.0	0.0	0.0	0.0
428	8/9/2018	15:36:22	0.0	0.0	0.0	0.0
429	8/9/2018	15:37:22	0.0	0.0	0.0	0.0
430	8/9/2018	15:38:22	0.0	0.0	0.0	0.0
431	8/9/2018	15:39:22	0.0	0.0	0.0	0.0
432	8/9/2018	15:40:22	0.0	0.0	0.0	0.0
433	8/9/2018	15:41:22	0.0	0.0	0.0	0.0
434	8/9/2018	15:42:22	0.0	0.0	0.0	0.0
435	8/9/2018	15:43:22	0.0	0.0	0.0	0.0
436	8/9/2018	15:44:22	0.0	0.0	0.0	0.0

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437	8/9/2018	15:45:22	0.0	0.0	0.0	0.0
438	8/9/2018	15:46:22	0.0	0.0	0.0	0.0
439	8/9/2018	15:47:22	0.0	0.0	0.0	0.0
440	8/9/2018	15:48:22	0.0	0.0	0.0	0.0
441	8/9/2018	15:49:22	0.0	0.0	0.0	0.0
442	8/9/2018	15:50:22	0.0	0.0	0.0	0.0
443	8/9/2018	15:51:22	0.0	0.0	0.0	0.0
444	8/9/2018	15:52:22	0.0	0.0	0.0	0.0
445	8/9/2018	15:53:22	0.0	0.0	0.0	0.0
446	8/9/2018	15:54:22	0.0	0.0	0.0	0.0
447	8/9/2018	15:55:22	0.0	0.0	0.0	0.0
448	8/9/2018	15:56:22	0.0	0.0	0.0	0.0
449	8/9/2018	15:57:22	0.0	0.0	0.0	0.0
450	8/9/2018	15:58:22	0.0	0.0	0.0	0.0
451	8/9/2018	15:59:22	0.0	0.0	0.0	0.0
452	8/9/2018	16:00:22	0.0	0.0	0.0	0.0
453	8/9/2018	16:01:22	0.0	0.0	0.0	0.0
454	8/9/2018	16:02:22	0.0	0.0	0.0	0.0
455	8/9/2018	16:03:22	0.0	0.0	0.0	0.0
456	8/9/2018	16:04:22	0.0	0.0	0.0	0.0
457	8/9/2018	16:05:22	0.0	0.0	0.0	0.0
458	8/9/2018	16:06:22	0.0	0.0	0.0	0.0
459	8/9/2018	16:07:22	0.0	0.0	0.0	0.0
460	8/9/2018	16:08:22	0.0	0.0	0.0	0.0
461	8/9/2018	16:09:22	0.0	0.0	0.0	0.0
462	8/9/2018	16:10:22	0.0	0.0	0.0	0.0
463	8/9/2018	16:11:22	0.0	0.0	0.0	0.0
464	8/9/2018	16:12:22	0.0	0.0	0.0	0.0
465	8/9/2018	16:13:22	0.0	0.0	0.0	0.0
466	8/9/2018	16:14:22	0.0	0.0	0.0	0.0
467	8/9/2018	16:15:22	0.0	0.0	0.0	0.0
468	8/9/2018	16:16:22	0.0	0.0	0.0	0.0
469	8/9/2018	16:17:22	0.0	0.0	0.0	0.0
470	8/9/2018	16:18:22	0.0	0.0	0.0	0.0
471	8/9/2018	16:19:22	0.0	0.0	0.0	0.0
472	8/9/2018	16:20:22	0.0	0.0	0.0	0.0
473	8/9/2018	16:21:22	0.0	0.0	0.0	0.0
474	8/9/2018	16:22:22	0.0	0.0	0.0	0.0
475	8/9/2018	16:23:22	0.0	0.0	0.0	0.0
476	8/9/2018	16:24:22	0.0	0.0	0.0	0.0
477	8/9/2018	16:25:22	0.0	0.0	0.0	0.0
478	8/9/2018	16:26:22	0.0	0.0	0.0	0.0
479	8/9/2018	16:27:22	0.0	0.0	0.0	0.0
480	8/9/2018	16:28:22	0.0	0.0	0.0	0.0
481	8/9/2018	16:29:22	0.0	0.0	0.0	0.0
482	8/9/2018	16:30:22	0.0	0.0	0.0	0.0
483	8/9/2018	16:31:22	0.0	0.0	0.0	0.0
484	8/9/2018	16:32:22	0.0	0.0	0.0	0.0

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485	8/9/2018	16:33:22	0.0	0.0	0.0	0.0
486	8/9/2018	16:34:22	0.0	0.0	0.0	0.0
487	8/9/2018	16:35:22	0.0	0.0	0.0	0.0
488	8/9/2018	16:36:22	0.0	0.0	0.0	0.0
489	8/9/2018	16:37:22	0.0	0.0	0.0	0.0
490	8/9/2018	16:38:22	0.0	0.0	0.0	0.0
491	8/9/2018	16:39:22	0.0	0.0	0.0	0.0
492	8/9/2018	16:40:22	0.0	0.0	0.0	0.0
493	8/9/2018	16:41:22	0.0	0.0	0.0	0.0
494	8/9/2018	16:42:22	0.0	0.0	0.0	0.0
495	8/9/2018	16:43:22	0.0	0.0	0.0	0.0
496	8/9/2018	16:44:22	0.0	0.0	0.0	0.0
497	8/9/2018	16:45:22	0.0	0.0	0.0	0.0
498	8/9/2018	16:46:22	0.0	0.0	0.0	0.0
499	8/9/2018	16:47:22	0.0	0.0	0.0	0.0
500	8/9/2018	16:48:22	0.0	0.0	0.0	0.0
501	8/9/2018	16:49:22	0.0	0.0	0.0	0.0
502	8/9/2018	16:50:22	0.0	0.0	0.0	0.0
503	8/9/2018	16:51:22	0.0	0.0	0.0	0.0
504	8/9/2018	16:52:22	0.0	0.0	0.0	0.0
505	8/9/2018	16:53:22	0.0	0.0	0.0	0.0
506	8/9/2018	16:54:22	0.0	0.0	0.0	0.0
507	8/9/2018	16:55:22	0.0	0.0	0.0	0.0
508	8/9/2018	16:56:22	0.0	0.0	0.0	0.0
509	8/9/2018	16:57:22	0.0	0.0	0.0	0.0
510	8/9/2018	16:58:22	0.0	0.0	0.0	0.0
511	8/9/2018	16:59:22	0.0	0.0	0.0	0.0
512	8/9/2018	17:00:22	0.0	0.0	0.0	0.0
513	8/9/2018	17:01:22	0.0	0.0	0.0	0.0
514	8/9/2018	17:02:22	0.0	0.0	0.0	0.0
515	8/9/2018	17:03:22	0.0	0.0	0.0	0.0
516	8/9/2018	17:04:22	0.0	0.0	0.0	0.0
517	8/9/2018	17:05:22	0.0	0.0	0.0	0.0
518	8/9/2018	17:06:22	0.0	0.0	0.0	0.0
519	8/9/2018	17:07:22	0.0	0.0	0.0	0.0
520	8/9/2018	17:08:22	0.0	0.0	0.0	0.0
521	8/9/2018	17:09:22	0.0	0.0	0.0	0.0
522	8/9/2018	17:10:22	0.0	0.0	0.0	0.0
523	8/9/2018	17:11:22	0.0	0.0	0.0	0.0
524	8/9/2018	17:12:22	0.0	0.0	0.0	0.0
525	8/9/2018	17:13:22	0.0	0.0	0.0	0.0
526	8/9/2018	17:14:22	0.0	0.0	0.0	0.0
527	8/9/2018	17:15:22	0.0	0.0	0.0	0.0
528	8/9/2018	17:16:22	0.0	0.0	0.0	0.0
529	8/9/2018	17:17:22	0.0	0.0	0.0	0.0
530	8/9/2018	17:18:22	0.0	0.0	0.0	0.0
531	8/9/2018	17:19:22	0.0	0.0	0.0	0.0
532	8/9/2018	17:20:22	0.0	0.0	0.0	0.0

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533	8/9/2018	17:21:22	0.0	0.0	0.0	0.0
534	8/9/2018	17:22:22	0.0	0.0	0.0	0.0
535	8/9/2018	17:23:22	0.0	0.0	0.0	0.0
536	8/9/2018	17:24:22	0.0	0.0	0.0	0.0
537	8/9/2018	17:25:22	0.0	0.0	0.0	0.0
538	8/9/2018	17:26:22	0.0	0.0	0.0	0.0
539	8/9/2018	17:27:22	0.0	0.0	0.0	0.0
540	8/9/2018	17:28:22	0.0	0.0	0.0	0.0
541	8/9/2018	17:29:22	0.0	0.0	0.0	0.0
542	8/9/2018	17:30:22	0.0	0.0	0.0	0.0
543	8/9/2018	17:31:22	0.0	0.0	0.0	0.0
544	8/9/2018	17:32:22	0.0	0.0	0.0	0.0
545	8/9/2018	17:33:22	0.0	0.0	0.0	0.0
546	8/9/2018	17:34:22	0.0	0.0	0.0	0.0
547	8/9/2018	17:35:22	0.0	0.0	0.0	0.0
548	8/9/2018	17:36:22	0.0	0.0	0.0	0.0
549	8/9/2018	17:37:22	0.0	0.0	0.0	0.0
550	8/9/2018	17:38:22	0.0	0.0	0.0	0.0
551	8/9/2018	17:39:22	0.0	0.0	0.0	0.0
552	8/9/2018	17:40:22	0.0	0.0	0.0	0.0
553	8/9/2018	17:41:22	0.0	0.0	0.0	0.0
554	8/9/2018	17:42:22	0.0	0.0	0.0	0.0
555	8/9/2018	17:43:22	0.0	0.0	0.0	0.0
556	8/9/2018	17:44:22	0.0	0.0	0.0	0.0
557	8/9/2018	17:45:22	0.0	0.0	0.0	0.0
558	8/9/2018	17:46:22	0.0	0.0	0.0	0.0
559	8/9/2018	17:47:22	0.0	0.0	0.0	0.0
560	8/9/2018	17:48:22	0.0	0.0	0.0	0.0
561	8/9/2018	17:49:22	0.0	0.0	0.0	0.0
562	8/9/2018	17:50:22	0.0	0.0	0.0	0.0
563	8/9/2018	17:51:22	0.0	0.0	0.0	0.0
564	8/9/2018	17:52:22	0.0	0.0	0.0	0.0
565	8/9/2018	17:53:22	0.0	0.0	0.0	0.0
566	8/9/2018	17:54:22	0.0	0.0	0.0	0.0
567	8/9/2018	17:55:22	0.0	0.0	0.0	0.0
568	8/9/2018	17:56:22	0.0	0.0	0.0	0.0
569	8/9/2018	17:57:22	0.0	0.0	0.0	0.0
570	8/9/2018	17:58:22	0.0	0.0	0.0	0.0
571	8/9/2018	17:59:22	0.0	0.0	0.0	0.0
572	8/9/2018	18:00:22	0.0	0.0	0.0	0.0
573	8/9/2018	18:01:22	0.0	0.0	0.0	0.0
574	8/9/2018	18:02:22	0.0	0.0	0.0	0.0
575	8/9/2018	18:03:22	0.0	0.0	0.0	0.0
576	8/9/2018	18:04:22	0.0	0.0	0.0	0.0
577	8/9/2018	18:05:22	0.0	0.0	0.0	0.0
578	8/9/2018	18:06:22	0.0	0.0	0.0	0.0
579	8/9/2018	18:07:22	0.0	0.0	0.0	0.0
580	8/9/2018	18:08:22	0.0	0.0	0.0	0.0

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581	8/9/2018	18:09:22	0.0	0.0	0.0	0.0
582	8/9/2018	18:10:22	0.0	0.0	0.0	0.0
583	8/9/2018	18:11:22	0.0	0.0	0.0	0.0
584	8/9/2018	18:12:22	0.0	0.0	0.0	0.0
585	8/9/2018	18:13:22	0.0	0.0	0.0	0.0
586	8/9/2018	18:14:22	0.0	0.0	0.0	0.0
Peak		0.0	0.0	0.0	0.0	
Min		0.0	0.0	0.0	0.0	
Average		0.0	0.0	0.0	0.0	

TWA/STEL

Index	Date/Time	PID(ppm) (TWA)	PID(ppm) (STEL)
001	8/9/2018 08:29:22	0.0	---
002	8/9/2018 08:30:22	0.0	---
003	8/9/2018 08:31:22	0.0	---
004	8/9/2018 08:32:22	0.0	---
005	8/9/2018 08:33:22	0.0	---
006	8/9/2018 08:34:22	0.0	---
007	8/9/2018 08:35:22	0.0	---
008	8/9/2018 08:36:22	0.0	---
009	8/9/2018 08:37:22	0.0	---
010	8/9/2018 08:38:22	0.0	---
011	8/9/2018 08:39:22	0.0	---
012	8/9/2018 08:40:22	0.0	---
013	8/9/2018 08:41:22	0.0	---
014	8/9/2018 08:42:22	0.0	---
015	8/9/2018 08:43:22	0.0	0.0
016	8/9/2018 08:44:22	0.0	0.0
017	8/9/2018 08:45:22	0.0	0.0
018	8/9/2018 08:46:22	0.0	0.0
019	8/9/2018 08:47:22	0.0	0.0
020	8/9/2018 08:48:22	0.0	0.0
021	8/9/2018 08:49:22	0.0	0.0
022	8/9/2018 08:50:22	0.0	0.0
023	8/9/2018 08:51:22	0.0	0.0
024	8/9/2018 08:52:22	0.0	0.0
025	8/9/2018 08:53:22	0.0	0.0
026	8/9/2018 08:54:22	0.0	0.0
027	8/9/2018 08:55:22	0.0	0.0
028	8/9/2018 08:56:22	0.0	0.0
029	8/9/2018 08:57:22	0.0	0.0
030	8/9/2018 08:58:22	0.0	0.0
031	8/9/2018 08:59:22	0.0	0.0
032	8/9/2018 09:00:22	0.0	0.0
033	8/9/2018 09:01:22	0.0	0.0
034	8/9/2018 09:02:22	0.0	0.0

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035	8/9/2018	09:03:22	0.0	0.0
036	8/9/2018	09:04:22	0.0	0.0
037	8/9/2018	09:05:22	0.0	0.0
038	8/9/2018	09:06:22	0.0	0.0
039	8/9/2018	09:07:22	0.0	0.0
040	8/9/2018	09:08:22	0.0	0.0
041	8/9/2018	09:09:22	0.0	0.0
042	8/9/2018	09:10:22	0.0	0.0
043	8/9/2018	09:11:22	0.0	0.0
044	8/9/2018	09:12:22	0.0	0.0
045	8/9/2018	09:13:22	0.0	0.0
046	8/9/2018	09:14:22	0.0	0.0
047	8/9/2018	09:15:22	0.0	0.0
048	8/9/2018	09:16:22	0.0	0.0
049	8/9/2018	09:17:22	0.0	0.0
050	8/9/2018	09:18:22	0.0	0.0
051	8/9/2018	09:19:22	0.0	0.0
052	8/9/2018	09:20:22	0.0	0.0
053	8/9/2018	09:21:22	0.0	0.0
054	8/9/2018	09:22:22	0.0	0.0
055	8/9/2018	09:23:22	0.0	0.0
056	8/9/2018	09:24:22	0.0	0.0
057	8/9/2018	09:25:22	0.0	0.0
058	8/9/2018	09:26:22	0.0	0.0
059	8/9/2018	09:27:22	0.0	0.0
060	8/9/2018	09:28:22	0.0	0.0
061	8/9/2018	09:29:22	0.0	0.0
062	8/9/2018	09:30:22	0.0	0.0
063	8/9/2018	09:31:22	0.0	0.0
064	8/9/2018	09:32:22	0.0	0.0
065	8/9/2018	09:33:22	0.0	0.0
066	8/9/2018	09:34:22	0.0	0.0
067	8/9/2018	09:35:22	0.0	0.0
068	8/9/2018	09:36:22	0.0	0.0
069	8/9/2018	09:37:22	0.0	0.0
070	8/9/2018	09:38:22	0.0	0.0
071	8/9/2018	09:39:22	0.0	0.0
072	8/9/2018	09:40:22	0.0	0.0
073	8/9/2018	09:41:22	0.0	0.0
074	8/9/2018	09:42:22	0.0	0.0
075	8/9/2018	09:43:22	0.0	0.0
076	8/9/2018	09:44:22	0.0	0.0
077	8/9/2018	09:45:22	0.0	0.0
078	8/9/2018	09:46:22	0.0	0.0
079	8/9/2018	09:47:22	0.0	0.0
080	8/9/2018	09:48:22	0.0	0.0
081	8/9/2018	09:49:22	0.0	0.0
082	8/9/2018	09:50:22	0.0	0.0

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083	8/9/2018 09:51:22	0.0	0.0
084	8/9/2018 09:52:22	0.0	0.0
085	8/9/2018 09:53:22	0.0	0.0
086	8/9/2018 09:54:22	0.0	0.0
087	8/9/2018 09:55:22	0.0	0.0
088	8/9/2018 09:56:22	0.0	0.0
089	8/9/2018 09:57:22	0.0	0.0
090	8/9/2018 09:58:22	0.0	0.0
091	8/9/2018 09:59:22	0.0	0.0
092	8/9/2018 10:00:22	0.0	0.0
093	8/9/2018 10:01:22	0.0	0.0
094	8/9/2018 10:02:22	0.0	0.0
095	8/9/2018 10:03:22	0.0	0.0
096	8/9/2018 10:04:22	0.0	0.0
097	8/9/2018 10:05:22	0.0	0.0
098	8/9/2018 10:06:22	0.0	0.0
099	8/9/2018 10:07:22	0.0	0.0
100	8/9/2018 10:08:22	0.0	0.0
101	8/9/2018 10:09:22	0.0	0.0
102	8/9/2018 10:10:22	0.0	0.0
103	8/9/2018 10:11:22	0.0	0.0
104	8/9/2018 10:12:22	0.0	0.0
105	8/9/2018 10:13:22	0.0	0.0
106	8/9/2018 10:14:22	0.0	0.0
107	8/9/2018 10:15:22	0.0	0.0
108	8/9/2018 10:16:22	0.0	0.0
109	8/9/2018 10:17:22	0.0	0.0
110	8/9/2018 10:18:22	0.0	0.0
111	8/9/2018 10:19:22	0.0	0.0
112	8/9/2018 10:20:22	0.0	0.0
113	8/9/2018 10:21:22	0.0	0.0
114	8/9/2018 10:22:22	0.0	0.0
115	8/9/2018 10:23:22	0.0	0.0
116	8/9/2018 10:24:22	0.0	0.0
117	8/9/2018 10:25:22	0.0	0.0
118	8/9/2018 10:26:22	0.0	0.0
119	8/9/2018 10:27:22	0.0	0.0
120	8/9/2018 10:28:22	0.0	0.0
121	8/9/2018 10:29:22	0.0	0.0
122	8/9/2018 10:30:22	0.0	0.0
123	8/9/2018 10:31:22	0.0	0.0
124	8/9/2018 10:32:22	0.0	0.0
125	8/9/2018 10:33:22	0.0	0.0
126	8/9/2018 10:34:22	0.0	0.0
127	8/9/2018 10:35:22	0.0	0.0
128	8/9/2018 10:36:22	0.0	0.0
129	8/9/2018 10:37:22	0.0	0.0
130	8/9/2018 10:38:22	0.0	0.0

131	8/9/2018	10:39:22	0.0	0.0
132	8/9/2018	10:40:22	0.0	0.0
133	8/9/2018	10:41:22	0.0	0.0
134	8/9/2018	10:42:22	0.0	0.0
135	8/9/2018	10:43:22	0.0	0.0
136	8/9/2018	10:44:22	0.0	0.0
137	8/9/2018	10:45:22	0.0	0.0
138	8/9/2018	10:46:22	0.0	0.0
139	8/9/2018	10:47:22	0.0	0.0
140	8/9/2018	10:48:22	0.0	0.0
141	8/9/2018	10:49:22	0.0	0.0
142	8/9/2018	10:50:22	0.0	0.0
143	8/9/2018	10:51:22	0.0	0.0
144	8/9/2018	10:52:22	0.0	0.0
145	8/9/2018	10:53:22	0.0	0.0
146	8/9/2018	10:54:22	0.0	0.0
147	8/9/2018	10:55:22	0.0	0.0
148	8/9/2018	10:56:22	0.0	0.0
149	8/9/2018	10:57:22	0.0	0.0
150	8/9/2018	10:58:22	0.0	0.0
151	8/9/2018	10:59:22	0.0	0.0
152	8/9/2018	11:00:22	0.0	0.0
153	8/9/2018	11:01:22	0.0	0.0
154	8/9/2018	11:02:22	0.0	0.0
155	8/9/2018	11:03:22	0.0	0.0
156	8/9/2018	11:04:22	0.0	0.0
157	8/9/2018	11:05:22	0.0	0.0
158	8/9/2018	11:06:22	0.0	0.0
159	8/9/2018	11:07:22	0.0	0.0
160	8/9/2018	11:08:22	0.0	0.0
161	8/9/2018	11:09:22	0.0	0.0
162	8/9/2018	11:10:22	0.0	0.0
163	8/9/2018	11:11:22	0.0	0.0
164	8/9/2018	11:12:22	0.0	0.0
165	8/9/2018	11:13:22	0.0	0.0
166	8/9/2018	11:14:22	0.0	0.0
167	8/9/2018	11:15:22	0.0	0.0
168	8/9/2018	11:16:22	0.0	0.0
169	8/9/2018	11:17:22	0.0	0.0
170	8/9/2018	11:18:22	0.0	0.0
171	8/9/2018	11:19:22	0.0	0.0
172	8/9/2018	11:20:22	0.0	0.0
173	8/9/2018	11:21:22	0.0	0.0
174	8/9/2018	11:22:22	0.0	0.0
175	8/9/2018	11:23:22	0.0	0.0
176	8/9/2018	11:24:22	0.0	0.0
177	8/9/2018	11:25:22	0.0	0.0
178	8/9/2018	11:26:22	0.0	0.0

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179	8/9/2018	11:27:22	0.0	0.0
180	8/9/2018	11:28:22	0.0	0.0
181	8/9/2018	11:29:22	0.0	0.0
182	8/9/2018	11:30:22	0.0	0.0
183	8/9/2018	11:31:22	0.0	0.0
184	8/9/2018	11:32:22	0.0	0.0
185	8/9/2018	11:33:22	0.0	0.0
186	8/9/2018	11:34:22	0.0	0.0
187	8/9/2018	11:35:22	0.0	0.0
188	8/9/2018	11:36:22	0.0	0.0
189	8/9/2018	11:37:22	0.0	0.0
190	8/9/2018	11:38:22	0.0	0.0
191	8/9/2018	11:39:22	0.0	0.0
192	8/9/2018	11:40:22	0.0	0.0
193	8/9/2018	11:41:22	0.0	0.0
194	8/9/2018	11:42:22	0.0	0.0
195	8/9/2018	11:43:22	0.0	0.0
196	8/9/2018	11:44:22	0.0	0.0
197	8/9/2018	11:45:22	0.0	0.0
198	8/9/2018	11:46:22	0.0	0.0
199	8/9/2018	11:47:22	0.0	0.0
200	8/9/2018	11:48:22	0.0	0.0
201	8/9/2018	11:49:22	0.0	0.0
202	8/9/2018	11:50:22	0.0	0.0
203	8/9/2018	11:51:22	0.0	0.0
204	8/9/2018	11:52:22	0.0	0.0
205	8/9/2018	11:53:22	0.0	0.0
206	8/9/2018	11:54:22	0.0	0.0
207	8/9/2018	11:55:22	0.0	0.0
208	8/9/2018	11:56:22	0.0	0.0
209	8/9/2018	11:57:22	0.0	0.0
210	8/9/2018	11:58:22	0.0	0.0
211	8/9/2018	11:59:22	0.0	0.0
212	8/9/2018	12:00:22	0.0	0.0
213	8/9/2018	12:01:22	0.0	0.0
214	8/9/2018	12:02:22	0.0	0.0
215	8/9/2018	12:03:22	0.0	0.0
216	8/9/2018	12:04:22	0.0	0.0
217	8/9/2018	12:05:22	0.0	0.0
218	8/9/2018	12:06:22	0.0	0.0
219	8/9/2018	12:07:22	0.0	0.0
220	8/9/2018	12:08:22	0.0	0.0
221	8/9/2018	12:09:22	0.0	0.0
222	8/9/2018	12:10:22	0.0	0.0
223	8/9/2018	12:11:22	0.0	0.0
224	8/9/2018	12:12:22	0.0	0.0
225	8/9/2018	12:13:22	0.0	0.0
226	8/9/2018	12:14:22	0.0	0.0

PRS_EXPORT_20181119.txt38160

227	8/9/2018	12:15:22	0.0	0.0
228	8/9/2018	12:16:22	0.0	0.0
229	8/9/2018	12:17:22	0.0	0.0
230	8/9/2018	12:18:22	0.0	0.0
231	8/9/2018	12:19:22	0.0	0.0
232	8/9/2018	12:20:22	0.0	0.0
233	8/9/2018	12:21:22	0.0	0.0
234	8/9/2018	12:22:22	0.0	0.0
235	8/9/2018	12:23:22	0.0	0.0
236	8/9/2018	12:24:22	0.0	0.0
237	8/9/2018	12:25:22	0.0	0.0
238	8/9/2018	12:26:22	0.0	0.0
239	8/9/2018	12:27:22	0.0	0.0
240	8/9/2018	12:28:22	0.0	0.0
241	8/9/2018	12:29:22	0.0	0.0
242	8/9/2018	12:30:22	0.0	0.0
243	8/9/2018	12:31:22	0.0	0.0
244	8/9/2018	12:32:22	0.0	0.0
245	8/9/2018	12:33:22	0.0	0.0
246	8/9/2018	12:34:22	0.0	0.0
247	8/9/2018	12:35:22	0.0	0.0
248	8/9/2018	12:36:22	0.0	0.0
249	8/9/2018	12:37:22	0.0	0.0
250	8/9/2018	12:38:22	0.0	0.0
251	8/9/2018	12:39:22	0.0	0.0
252	8/9/2018	12:40:22	0.0	0.0
253	8/9/2018	12:41:22	0.0	0.0
254	8/9/2018	12:42:22	0.0	0.0
255	8/9/2018	12:43:22	0.0	0.0
256	8/9/2018	12:44:22	0.0	0.0
257	8/9/2018	12:45:22	0.0	0.0
258	8/9/2018	12:46:22	0.0	0.0
259	8/9/2018	12:47:22	0.0	0.0
260	8/9/2018	12:48:22	0.0	0.0
261	8/9/2018	12:49:22	0.0	0.0
262	8/9/2018	12:50:22	0.0	0.0
263	8/9/2018	12:51:22	0.0	0.0
264	8/9/2018	12:52:22	0.0	0.0
265	8/9/2018	12:53:22	0.0	0.0
266	8/9/2018	12:54:22	0.0	0.0
267	8/9/2018	12:55:22	0.0	0.0
268	8/9/2018	12:56:22	0.0	0.0
269	8/9/2018	12:57:22	0.0	0.0
270	8/9/2018	12:58:22	0.0	0.0
271	8/9/2018	12:59:22	0.0	0.0
272	8/9/2018	13:00:22	0.0	0.0
273	8/9/2018	13:01:22	0.0	0.0
274	8/9/2018	13:02:22	0.0	0.0

PRS_EXPORT_20181119.txt38160

275	8/9/2018	13:03:22	0.0	0.0
276	8/9/2018	13:04:22	0.0	0.0
277	8/9/2018	13:05:22	0.0	0.0
278	8/9/2018	13:06:22	0.0	0.0
279	8/9/2018	13:07:22	0.0	0.0
280	8/9/2018	13:08:22	0.0	0.0
281	8/9/2018	13:09:22	0.0	0.0
282	8/9/2018	13:10:22	0.0	0.0
283	8/9/2018	13:11:22	0.0	0.0
284	8/9/2018	13:12:22	0.0	0.0
285	8/9/2018	13:13:22	0.0	0.0
286	8/9/2018	13:14:22	0.0	0.0
287	8/9/2018	13:15:22	0.0	0.0
288	8/9/2018	13:16:22	0.0	0.0
289	8/9/2018	13:17:22	0.0	0.0
290	8/9/2018	13:18:22	0.0	0.0
291	8/9/2018	13:19:22	0.0	0.0
292	8/9/2018	13:20:22	0.0	0.0
293	8/9/2018	13:21:22	0.0	0.0
294	8/9/2018	13:22:22	0.0	0.0
295	8/9/2018	13:23:22	0.0	0.0
296	8/9/2018	13:24:22	0.0	0.0
297	8/9/2018	13:25:22	0.0	0.0
298	8/9/2018	13:26:22	0.0	0.0
299	8/9/2018	13:27:22	0.0	0.0
300	8/9/2018	13:28:22	0.0	0.0
301	8/9/2018	13:29:22	0.0	0.0
302	8/9/2018	13:30:22	0.0	0.0
303	8/9/2018	13:31:22	0.0	0.0
304	8/9/2018	13:32:22	0.0	0.0
305	8/9/2018	13:33:22	0.0	0.0
306	8/9/2018	13:34:22	0.0	0.0
307	8/9/2018	13:35:22	0.0	0.0
308	8/9/2018	13:36:22	0.0	0.0
309	8/9/2018	13:37:22	0.0	0.0
310	8/9/2018	13:38:22	0.0	0.0
311	8/9/2018	13:39:22	0.0	0.0
312	8/9/2018	13:40:22	0.0	0.0
313	8/9/2018	13:41:22	0.0	0.0
314	8/9/2018	13:42:22	0.0	0.0
315	8/9/2018	13:43:22	0.0	0.0
316	8/9/2018	13:44:22	0.0	0.0
317	8/9/2018	13:45:22	0.0	0.0
318	8/9/2018	13:46:22	0.0	0.0
319	8/9/2018	13:47:22	0.0	0.0
320	8/9/2018	13:48:22	0.0	0.0
321	8/9/2018	13:49:22	0.0	0.0
322	8/9/2018	13:50:22	0.0	0.0

323	8/9/2018	13:51:22	0.0	0.0
324	8/9/2018	13:52:22	0.0	0.0
325	8/9/2018	13:53:22	0.0	0.0
326	8/9/2018	13:54:22	0.0	0.0
327	8/9/2018	13:55:22	0.0	0.0
328	8/9/2018	13:56:22	0.0	0.0
329	8/9/2018	13:57:22	0.0	0.0
330	8/9/2018	13:58:22	0.0	0.0
331	8/9/2018	13:59:22	0.0	0.0
332	8/9/2018	14:00:22	0.0	0.0
333	8/9/2018	14:01:22	0.0	0.0
334	8/9/2018	14:02:22	0.0	0.0
335	8/9/2018	14:03:22	0.0	0.0
336	8/9/2018	14:04:22	0.0	0.0
337	8/9/2018	14:05:22	0.0	0.0
338	8/9/2018	14:06:22	0.0	0.0
339	8/9/2018	14:07:22	0.0	0.0
340	8/9/2018	14:08:22	0.0	0.0
341	8/9/2018	14:09:22	0.0	0.0
342	8/9/2018	14:10:22	0.0	0.0
343	8/9/2018	14:11:22	0.0	0.0
344	8/9/2018	14:12:22	0.0	0.0
345	8/9/2018	14:13:22	0.0	0.0
346	8/9/2018	14:14:22	0.0	0.0
347	8/9/2018	14:15:22	0.0	0.0
348	8/9/2018	14:16:22	0.0	0.0
349	8/9/2018	14:17:22	0.0	0.0
350	8/9/2018	14:18:22	0.0	0.0
351	8/9/2018	14:19:22	0.0	0.0
352	8/9/2018	14:20:22	0.0	0.0
353	8/9/2018	14:21:22	0.0	0.0
354	8/9/2018	14:22:22	0.0	0.0
355	8/9/2018	14:23:22	0.0	0.0
356	8/9/2018	14:24:22	0.0	0.0
357	8/9/2018	14:25:22	0.0	0.0
358	8/9/2018	14:26:22	0.0	0.0
359	8/9/2018	14:27:22	0.0	0.0
360	8/9/2018	14:28:22	0.0	0.0
361	8/9/2018	14:29:22	0.0	0.0
362	8/9/2018	14:30:22	0.0	0.0
363	8/9/2018	14:31:22	0.0	0.0
364	8/9/2018	14:32:22	0.0	0.0
365	8/9/2018	14:33:22	0.0	0.0
366	8/9/2018	14:34:22	0.0	0.0
367	8/9/2018	14:35:22	0.0	0.0
368	8/9/2018	14:36:22	0.0	0.0
369	8/9/2018	14:37:22	0.0	0.0
370	8/9/2018	14:38:22	0.0	0.0

PRS_EXPORT_20181119.txt38160

371	8/9/2018	14:39:22	0.0	0.0
372	8/9/2018	14:40:22	0.0	0.0
373	8/9/2018	14:41:22	0.0	0.0
374	8/9/2018	14:42:22	0.0	0.0
375	8/9/2018	14:43:22	0.0	0.0
376	8/9/2018	14:44:22	0.0	0.0
377	8/9/2018	14:45:22	0.0	0.0
378	8/9/2018	14:46:22	0.0	0.0
379	8/9/2018	14:47:22	0.0	0.0
380	8/9/2018	14:48:22	0.0	0.0
381	8/9/2018	14:49:22	0.0	0.0
382	8/9/2018	14:50:22	0.0	0.0
383	8/9/2018	14:51:22	0.0	0.0
384	8/9/2018	14:52:22	0.0	0.0
385	8/9/2018	14:53:22	0.0	0.0
386	8/9/2018	14:54:22	0.0	0.0
387	8/9/2018	14:55:22	0.0	0.0
388	8/9/2018	14:56:22	0.0	0.0
389	8/9/2018	14:57:22	0.0	0.0
390	8/9/2018	14:58:22	0.0	0.0
391	8/9/2018	14:59:22	0.0	0.0
392	8/9/2018	15:00:22	0.0	0.0
393	8/9/2018	15:01:22	0.0	0.0
394	8/9/2018	15:02:22	0.0	0.0
395	8/9/2018	15:03:22	0.0	0.0
396	8/9/2018	15:04:22	0.0	0.0
397	8/9/2018	15:05:22	0.0	0.0
398	8/9/2018	15:06:22	0.0	0.0
399	8/9/2018	15:07:22	0.0	0.0
400	8/9/2018	15:08:22	0.0	0.0
401	8/9/2018	15:09:22	0.0	0.0
402	8/9/2018	15:10:22	0.0	0.0
403	8/9/2018	15:11:22	0.0	0.0
404	8/9/2018	15:12:22	0.0	0.0
405	8/9/2018	15:13:22	0.0	0.0
406	8/9/2018	15:14:22	0.0	0.0
407	8/9/2018	15:15:22	0.0	0.0
408	8/9/2018	15:16:22	0.0	0.0
409	8/9/2018	15:17:22	0.0	0.0
410	8/9/2018	15:18:22	0.0	0.0
411	8/9/2018	15:19:22	0.0	0.0
412	8/9/2018	15:20:22	0.0	0.0
413	8/9/2018	15:21:22	0.0	0.0
414	8/9/2018	15:22:22	0.0	0.0
415	8/9/2018	15:23:22	0.0	0.0
416	8/9/2018	15:24:22	0.0	0.0
417	8/9/2018	15:25:22	0.0	0.0
418	8/9/2018	15:26:22	0.0	0.0

PRS_EXPORT_20181119.txt38160

419	8/9/2018	15:27:22	0.0	0.0
420	8/9/2018	15:28:22	0.0	0.0
421	8/9/2018	15:29:22	0.0	0.0
422	8/9/2018	15:30:22	0.0	0.0
423	8/9/2018	15:31:22	0.0	0.0
424	8/9/2018	15:32:22	0.0	0.0
425	8/9/2018	15:33:22	0.0	0.0
426	8/9/2018	15:34:22	0.0	0.0
427	8/9/2018	15:35:22	0.0	0.0
428	8/9/2018	15:36:22	0.0	0.0
429	8/9/2018	15:37:22	0.0	0.0
430	8/9/2018	15:38:22	0.0	0.0
431	8/9/2018	15:39:22	0.0	0.0
432	8/9/2018	15:40:22	0.0	0.0
433	8/9/2018	15:41:22	0.0	0.0
434	8/9/2018	15:42:22	0.0	0.0
435	8/9/2018	15:43:22	0.0	0.0
436	8/9/2018	15:44:22	0.0	0.0
437	8/9/2018	15:45:22	0.0	0.0
438	8/9/2018	15:46:22	0.0	0.0
439	8/9/2018	15:47:22	0.0	0.0
440	8/9/2018	15:48:22	0.0	0.0
441	8/9/2018	15:49:22	0.0	0.0
442	8/9/2018	15:50:22	0.0	0.0
443	8/9/2018	15:51:22	0.0	0.0
444	8/9/2018	15:52:22	0.0	0.0
445	8/9/2018	15:53:22	0.0	0.0
446	8/9/2018	15:54:22	0.0	0.0
447	8/9/2018	15:55:22	0.0	0.0
448	8/9/2018	15:56:22	0.0	0.0
449	8/9/2018	15:57:22	0.0	0.0
450	8/9/2018	15:58:22	0.0	0.0
451	8/9/2018	15:59:22	0.0	0.0
452	8/9/2018	16:00:22	0.0	0.0
453	8/9/2018	16:01:22	0.0	0.0
454	8/9/2018	16:02:22	0.0	0.0
455	8/9/2018	16:03:22	0.0	0.0
456	8/9/2018	16:04:22	0.0	0.0
457	8/9/2018	16:05:22	0.0	0.0
458	8/9/2018	16:06:22	0.0	0.0
459	8/9/2018	16:07:22	0.0	0.0
460	8/9/2018	16:08:22	0.0	0.0
461	8/9/2018	16:09:22	0.0	0.0
462	8/9/2018	16:10:22	0.0	0.0
463	8/9/2018	16:11:22	0.0	0.0
464	8/9/2018	16:12:22	0.0	0.0
465	8/9/2018	16:13:22	0.0	0.0
466	8/9/2018	16:14:22	0.0	0.0

PRS_EXPORT_20181119.txt38160

467	8/9/2018	16:15:22	0.0	0.0
468	8/9/2018	16:16:22	0.0	0.0
469	8/9/2018	16:17:22	0.0	0.0
470	8/9/2018	16:18:22	0.0	0.0
471	8/9/2018	16:19:22	0.0	0.0
472	8/9/2018	16:20:22	0.0	0.0
473	8/9/2018	16:21:22	0.0	0.0
474	8/9/2018	16:22:22	0.0	0.0
475	8/9/2018	16:23:22	0.0	0.0
476	8/9/2018	16:24:22	0.0	0.0
477	8/9/2018	16:25:22	0.0	0.0
478	8/9/2018	16:26:22	0.0	0.0
479	8/9/2018	16:27:22	0.0	0.0
480	8/9/2018	16:28:22	0.0	0.0
481	8/9/2018	16:29:22	0.0	0.0
482	8/9/2018	16:30:22	0.0	0.0
483	8/9/2018	16:31:22	0.0	0.0
484	8/9/2018	16:32:22	0.0	0.0
485	8/9/2018	16:33:22	0.0	0.0
486	8/9/2018	16:34:22	0.0	0.0
487	8/9/2018	16:35:22	0.0	0.0
488	8/9/2018	16:36:22	0.0	0.0
489	8/9/2018	16:37:22	0.0	0.0
490	8/9/2018	16:38:22	0.0	0.0
491	8/9/2018	16:39:22	0.0	0.0
492	8/9/2018	16:40:22	0.0	0.0
493	8/9/2018	16:41:22	0.0	0.0
494	8/9/2018	16:42:22	0.0	0.0
495	8/9/2018	16:43:22	0.0	0.0
496	8/9/2018	16:44:22	0.0	0.0
497	8/9/2018	16:45:22	0.0	0.0
498	8/9/2018	16:46:22	0.0	0.0
499	8/9/2018	16:47:22	0.0	0.0
500	8/9/2018	16:48:22	0.0	0.0
501	8/9/2018	16:49:22	0.0	0.0
502	8/9/2018	16:50:22	0.0	0.0
503	8/9/2018	16:51:22	0.0	0.0
504	8/9/2018	16:52:22	0.0	0.0
505	8/9/2018	16:53:22	0.0	0.0
506	8/9/2018	16:54:22	0.0	0.0
507	8/9/2018	16:55:22	0.0	0.0
508	8/9/2018	16:56:22	0.0	0.0
509	8/9/2018	16:57:22	0.0	0.0
510	8/9/2018	16:58:22	0.0	0.0
511	8/9/2018	16:59:22	0.0	0.0
512	8/9/2018	17:00:22	0.0	0.0
513	8/9/2018	17:01:22	0.0	0.0
514	8/9/2018	17:02:22	0.0	0.0

PRS_EXPORT_20181119.txt38160

515	8/9/2018	17:03:22	0.0	0.0
516	8/9/2018	17:04:22	0.0	0.0
517	8/9/2018	17:05:22	0.0	0.0
518	8/9/2018	17:06:22	0.0	0.0
519	8/9/2018	17:07:22	0.0	0.0
520	8/9/2018	17:08:22	0.0	0.0
521	8/9/2018	17:09:22	0.0	0.0
522	8/9/2018	17:10:22	0.0	0.0
523	8/9/2018	17:11:22	0.0	0.0
524	8/9/2018	17:12:22	0.0	0.0
525	8/9/2018	17:13:22	0.0	0.0
526	8/9/2018	17:14:22	0.0	0.0
527	8/9/2018	17:15:22	0.0	0.0
528	8/9/2018	17:16:22	0.0	0.0
529	8/9/2018	17:17:22	0.0	0.0
530	8/9/2018	17:18:22	0.0	0.0
531	8/9/2018	17:19:22	0.0	0.0
532	8/9/2018	17:20:22	0.0	0.0
533	8/9/2018	17:21:22	0.0	0.0
534	8/9/2018	17:22:22	0.0	0.0
535	8/9/2018	17:23:22	0.0	0.0
536	8/9/2018	17:24:22	0.0	0.0
537	8/9/2018	17:25:22	0.0	0.0
538	8/9/2018	17:26:22	0.0	0.0
539	8/9/2018	17:27:22	0.0	0.0
540	8/9/2018	17:28:22	0.0	0.0
541	8/9/2018	17:29:22	0.0	0.0
542	8/9/2018	17:30:22	0.0	0.0
543	8/9/2018	17:31:22	0.0	0.0
544	8/9/2018	17:32:22	0.0	0.0
545	8/9/2018	17:33:22	0.0	0.0
546	8/9/2018	17:34:22	0.0	0.0
547	8/9/2018	17:35:22	0.0	0.0
548	8/9/2018	17:36:22	0.0	0.0
549	8/9/2018	17:37:22	0.0	0.0
550	8/9/2018	17:38:22	0.0	0.0
551	8/9/2018	17:39:22	0.0	0.0
552	8/9/2018	17:40:22	0.0	0.0
553	8/9/2018	17:41:22	0.0	0.0
554	8/9/2018	17:42:22	0.0	0.0
555	8/9/2018	17:43:22	0.0	0.0
556	8/9/2018	17:44:22	0.0	0.0
557	8/9/2018	17:45:22	0.0	0.0
558	8/9/2018	17:46:22	0.0	0.0
559	8/9/2018	17:47:22	0.0	0.0
560	8/9/2018	17:48:22	0.0	0.0
561	8/9/2018	17:49:22	0.0	0.0
562	8/9/2018	17:50:22	0.0	0.0

563	8/9/2018	17:51:22	0.0	0.0
564	8/9/2018	17:52:22	0.0	0.0
565	8/9/2018	17:53:22	0.0	0.0
566	8/9/2018	17:54:22	0.0	0.0
567	8/9/2018	17:55:22	0.0	0.0
568	8/9/2018	17:56:22	0.0	0.0
569	8/9/2018	17:57:22	0.0	0.0
570	8/9/2018	17:58:22	0.0	0.0
571	8/9/2018	17:59:22	0.0	0.0
572	8/9/2018	18:00:22	0.0	0.0
573	8/9/2018	18:01:22	0.0	0.0
574	8/9/2018	18:02:22	0.0	0.0
575	8/9/2018	18:03:22	0.0	0.0
576	8/9/2018	18:04:22	0.0	0.0
577	8/9/2018	18:05:22	0.0	0.0
578	8/9/2018	18:06:22	0.0	0.0
579	8/9/2018	18:07:22	0.0	0.0
580	8/9/2018	18:08:22	0.0	0.0
581	8/9/2018	18:09:22	0.0	0.0
582	8/9/2018	18:10:22	0.0	0.0
583	8/9/2018	18:11:22	0.0	0.0
584	8/9/2018	18:12:22	0.0	0.0
585	8/9/2018	18:13:22	0.0	0.0
586	8/9/2018	18:14:22	0.0	0.0

=====
18/08/10 08:14

Summary

Unit Name MiniRAE 3000(PGM-7320)
Unit SN 592-919975
Unit Firmware Ver V2.14

Running Mode Hygiene Mode
Datalog Mode Manual
Diagnostic Mode No
Stop Reason Power Down

Site ID RAE00000
User ID UW000000

Begin 8/10/2018 08:14:51
End 8/10/2018 11:59:06
Sample Period(s) 60
Number of Records 224

Sensor PID(ppm)
Sensor SN S023030116U2

Measure Type Min; Avg; Max; Real
 Span 100.0
 Span 2 1000.0
 Low Alarm 50.0
 High Alarm 100.0
 Over Alarm 15000.0
 STEL Alarm 25.0
 TWA Alarm 10.0
 Measurement Gas Isobutylene
 Calibration Time 8/10/2018 07:57
 Peak 0.0
 Min 0.0
 Average 0.0

Datalog

Index	Date/Time	PID(ppm) (Min)	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)	PID(ppm)
001	8/10/2018 08:15:51	0.0	0.0	0.0	0.0	0.0
002	8/10/2018 08:16:51	0.0	0.0	0.0	0.0	0.0
003	8/10/2018 08:17:51	0.0	0.0	0.0	0.0	0.0
004	8/10/2018 08:18:51	0.0	0.0	0.0	0.0	0.0
005	8/10/2018 08:19:51	0.0	0.0	0.0	0.0	0.0
006	8/10/2018 08:20:51	0.0	0.0	0.0	0.0	0.0
007	8/10/2018 08:21:51	0.0	0.0	0.0	0.0	0.0
008	8/10/2018 08:22:51	0.0	0.0	0.0	0.0	0.0
009	8/10/2018 08:23:51	0.0	0.0	0.0	0.0	0.0
010	8/10/2018 08:24:51	0.0	0.0	0.0	0.0	0.0
011	8/10/2018 08:25:51	0.0	0.0	0.0	0.0	0.0
012	8/10/2018 08:26:51	0.0	0.0	0.0	0.0	0.0
013	8/10/2018 08:27:51	0.0	0.0	0.0	0.0	0.0
014	8/10/2018 08:28:51	0.0	0.0	0.0	0.0	0.0
015	8/10/2018 08:29:51	0.0	0.0	0.0	0.0	0.0
016	8/10/2018 08:30:51	0.0	0.0	0.0	0.0	0.0
017	8/10/2018 08:31:51	0.0	0.0	0.0	0.0	0.0
018	8/10/2018 08:32:51	0.0	0.0	0.0	0.0	0.0
019	8/10/2018 08:33:51	0.0	0.0	0.0	0.0	0.0
020	8/10/2018 08:34:51	0.0	0.0	0.0	0.0	0.0
021	8/10/2018 08:35:51	0.0	0.0	0.0	0.0	0.0
022	8/10/2018 08:36:51	0.0	0.0	0.0	0.0	0.0
023	8/10/2018 08:37:51	0.0	0.0	0.0	0.0	0.0
024	8/10/2018 08:38:51	0.0	0.0	0.0	0.0	0.0
025	8/10/2018 08:39:51	0.0	0.0	0.0	0.0	0.0
026	8/10/2018 08:40:51	0.0	0.0	0.0	0.0	0.0
027	8/10/2018 08:41:51	0.0	0.0	0.0	0.0	0.0
028	8/10/2018 08:42:51	0.0	0.0	0.0	0.0	0.0
029	8/10/2018 08:43:51	0.0	0.0	0.0	0.0	0.0
030	8/10/2018 08:44:51	0.0	0.0	0.0	0.0	0.0

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031	8/10/2018	08:45:51	0.0	0.0	0.0	0.0
032	8/10/2018	08:46:51	0.0	0.0	0.0	0.0
033	8/10/2018	08:47:51	0.0	0.0	0.0	0.0
034	8/10/2018	08:48:51	0.0	0.0	0.0	0.0
035	8/10/2018	08:49:51	0.0	0.0	0.0	0.0
036	8/10/2018	08:50:51	0.0	0.0	0.0	0.0
037	8/10/2018	08:51:51	0.0	0.0	0.0	0.0
038	8/10/2018	08:52:51	0.0	0.0	0.0	0.0
039	8/10/2018	08:53:51	0.0	0.0	0.0	0.0
040	8/10/2018	08:54:51	0.0	0.0	0.0	0.0
041	8/10/2018	08:55:51	0.0	0.0	0.0	0.0
042	8/10/2018	08:56:51	0.0	0.0	0.0	0.0
043	8/10/2018	08:57:51	0.0	0.0	0.0	0.0
044	8/10/2018	08:58:51	0.0	0.0	0.0	0.0
045	8/10/2018	08:59:51	0.0	0.0	0.0	0.0
046	8/10/2018	09:00:51	0.0	0.0	0.0	0.0
047	8/10/2018	09:01:51	0.0	0.0	0.0	0.0
048	8/10/2018	09:02:51	0.0	0.0	0.0	0.0
049	8/10/2018	09:03:51	0.0	0.0	0.0	0.0
050	8/10/2018	09:04:51	0.0	0.0	0.0	0.0
051	8/10/2018	09:05:51	0.0	0.0	0.0	0.0
052	8/10/2018	09:06:51	0.0	0.0	0.0	0.0
053	8/10/2018	09:07:51	0.0	0.0	0.0	0.0
054	8/10/2018	09:08:51	0.0	0.0	0.0	0.0
055	8/10/2018	09:09:51	0.0	0.0	0.0	0.0
056	8/10/2018	09:10:51	0.0	0.0	0.0	0.0
057	8/10/2018	09:11:51	0.0	0.0	0.0	0.0
058	8/10/2018	09:12:51	0.0	0.0	0.0	0.0
059	8/10/2018	09:13:51	0.0	0.0	0.0	0.0
060	8/10/2018	09:14:51	0.0	0.0	0.0	0.0
061	8/10/2018	09:15:51	0.0	0.0	0.0	0.0
062	8/10/2018	09:16:51	0.0	0.0	0.0	0.0
063	8/10/2018	09:17:51	0.0	0.0	0.0	0.0
064	8/10/2018	09:18:51	0.0	0.0	0.0	0.0
065	8/10/2018	09:19:51	0.0	0.0	0.0	0.0
066	8/10/2018	09:20:51	0.0	0.0	0.0	0.0
067	8/10/2018	09:21:51	0.0	0.0	0.0	0.0
068	8/10/2018	09:22:51	0.0	0.0	0.0	0.0
069	8/10/2018	09:23:51	0.0	0.0	0.0	0.0
070	8/10/2018	09:24:51	0.0	0.0	0.0	0.0
071	8/10/2018	09:25:51	0.0	0.0	0.0	0.0
072	8/10/2018	09:26:51	0.0	0.0	0.0	0.0
073	8/10/2018	09:27:51	0.0	0.0	0.0	0.0
074	8/10/2018	09:28:51	0.0	0.0	0.0	0.0
075	8/10/2018	09:29:51	0.0	0.0	0.0	0.0
076	8/10/2018	09:30:51	0.0	0.0	0.0	0.0
077	8/10/2018	09:31:51	0.0	0.0	0.0	0.0
078	8/10/2018	09:32:51	0.0	0.0	0.0	0.0

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079	8/10/2018	09:33:51	0.0	0.0	0.0	0.0
080	8/10/2018	09:34:51	0.0	0.0	0.0	0.0
081	8/10/2018	09:35:51	0.0	0.0	0.0	0.0
082	8/10/2018	09:36:51	0.0	0.0	0.0	0.0
083	8/10/2018	09:37:51	0.0	0.0	0.0	0.0
084	8/10/2018	09:38:51	0.0	0.0	0.0	0.0
085	8/10/2018	09:39:51	0.0	0.0	0.0	0.0
086	8/10/2018	09:40:51	0.0	0.0	0.0	0.0
087	8/10/2018	09:41:51	0.0	0.0	0.0	0.0
088	8/10/2018	09:42:51	0.0	0.0	0.0	0.0
089	8/10/2018	09:43:51	0.0	0.0	0.0	0.0
090	8/10/2018	09:44:51	0.0	0.0	0.0	0.0
091	8/10/2018	09:45:51	0.0	0.0	0.0	0.0
092	8/10/2018	09:46:51	0.0	0.0	0.0	0.0
093	8/10/2018	09:47:51	0.0	0.0	0.0	0.0
094	8/10/2018	09:48:51	0.0	0.0	0.0	0.0
095	8/10/2018	09:49:51	0.0	0.0	0.0	0.0
096	8/10/2018	09:50:51	0.0	0.0	0.0	0.0
097	8/10/2018	09:51:51	0.0	0.0	0.0	0.0
098	8/10/2018	09:52:51	0.0	0.0	0.0	0.0
099	8/10/2018	09:53:51	0.0	0.0	0.0	0.0
100	8/10/2018	09:54:51	0.0	0.0	0.0	0.0
101	8/10/2018	09:55:51	0.0	0.0	0.0	0.0
102	8/10/2018	09:56:51	0.0	0.0	0.0	0.0
103	8/10/2018	09:57:51	0.0	0.0	0.0	0.0
104	8/10/2018	09:58:51	0.0	0.0	0.0	0.0
105	8/10/2018	09:59:51	0.0	0.0	0.0	0.0
106	8/10/2018	10:00:51	0.0	0.0	0.0	0.0
107	8/10/2018	10:01:51	0.0	0.0	0.0	0.0
108	8/10/2018	10:02:51	0.0	0.0	0.0	0.0
109	8/10/2018	10:03:51	0.0	0.0	0.0	0.0
110	8/10/2018	10:04:51	0.0	0.0	0.0	0.0
111	8/10/2018	10:05:51	0.0	0.0	0.0	0.0
112	8/10/2018	10:06:51	0.0	0.0	0.0	0.0
113	8/10/2018	10:07:51	0.0	0.0	0.0	0.0
114	8/10/2018	10:08:51	0.0	0.0	0.0	0.0
115	8/10/2018	10:09:51	0.0	0.0	0.0	0.0
116	8/10/2018	10:10:51	0.0	0.0	0.0	0.0
117	8/10/2018	10:11:51	0.0	0.0	0.0	0.0
118	8/10/2018	10:12:51	0.0	0.0	0.0	0.0
119	8/10/2018	10:13:51	0.0	0.0	0.0	0.0
120	8/10/2018	10:14:51	0.0	0.0	0.0	0.0
121	8/10/2018	10:15:51	0.0	0.0	0.0	0.0
122	8/10/2018	10:16:51	0.0	0.0	0.0	0.0
123	8/10/2018	10:17:51	0.0	0.0	0.0	0.0
124	8/10/2018	10:18:51	0.0	0.0	0.0	0.0
125	8/10/2018	10:19:51	0.0	0.0	0.0	0.0
126	8/10/2018	10:20:51	0.0	0.0	0.0	0.0

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127	8/10/2018	10:21:51	0.0	0.0	0.0	0.0
128	8/10/2018	10:22:51	0.0	0.0	0.0	0.0
129	8/10/2018	10:23:51	0.0	0.0	0.0	0.0
130	8/10/2018	10:24:51	0.0	0.0	0.0	0.0
131	8/10/2018	10:25:51	0.0	0.0	0.0	0.0
132	8/10/2018	10:26:51	0.0	0.0	0.0	0.0
133	8/10/2018	10:27:51	0.0	0.0	0.0	0.0
134	8/10/2018	10:28:51	0.0	0.0	0.0	0.0
135	8/10/2018	10:29:51	0.0	0.0	0.0	0.0
136	8/10/2018	10:30:51	0.0	0.0	0.0	0.0
137	8/10/2018	10:31:51	0.0	0.0	0.0	0.0
138	8/10/2018	10:32:51	0.0	0.0	0.0	0.0
139	8/10/2018	10:33:51	0.0	0.0	0.0	0.0
140	8/10/2018	10:34:51	0.0	0.0	0.0	0.0
141	8/10/2018	10:35:51	0.0	0.0	0.0	0.0
142	8/10/2018	10:36:51	0.0	0.0	0.0	0.0
143	8/10/2018	10:37:51	0.0	0.0	0.0	0.0
144	8/10/2018	10:38:51	0.0	0.0	0.0	0.0
145	8/10/2018	10:39:51	0.0	0.0	0.0	0.0
146	8/10/2018	10:40:51	0.0	0.0	0.0	0.0
147	8/10/2018	10:41:51	0.0	0.0	0.0	0.0
148	8/10/2018	10:42:51	0.0	0.0	0.0	0.0
149	8/10/2018	10:43:51	0.0	0.0	0.0	0.0
150	8/10/2018	10:44:51	0.0	0.0	0.0	0.0
151	8/10/2018	10:45:51	0.0	0.0	0.0	0.0
152	8/10/2018	10:46:51	0.0	0.0	0.0	0.0
153	8/10/2018	10:47:51	0.0	0.0	0.0	0.0
154	8/10/2018	10:48:51	0.0	0.0	0.0	0.0
155	8/10/2018	10:49:51	0.0	0.0	0.0	0.0
156	8/10/2018	10:50:51	0.0	0.0	0.0	0.0
157	8/10/2018	10:51:51	0.0	0.0	0.0	0.0
158	8/10/2018	10:52:51	0.0	0.0	0.0	0.0
159	8/10/2018	10:53:51	0.0	0.0	0.0	0.0
160	8/10/2018	10:54:51	0.0	0.0	0.0	0.0
161	8/10/2018	10:55:51	0.0	0.0	0.0	0.0
162	8/10/2018	10:56:51	0.0	0.0	0.0	0.0
163	8/10/2018	10:57:51	0.0	0.0	0.0	0.0
164	8/10/2018	10:58:51	0.0	0.0	0.0	0.0
165	8/10/2018	10:59:51	0.0	0.0	0.0	0.0
166	8/10/2018	11:00:51	0.0	0.0	0.0	0.0
167	8/10/2018	11:01:51	0.0	0.0	0.0	0.0
168	8/10/2018	11:02:51	0.0	0.0	0.0	0.0
169	8/10/2018	11:03:51	0.0	0.0	0.0	0.0
170	8/10/2018	11:04:51	0.0	0.0	0.0	0.0
171	8/10/2018	11:05:51	0.0	0.0	0.0	0.0
172	8/10/2018	11:06:51	0.0	0.0	0.0	0.0
173	8/10/2018	11:07:51	0.0	0.0	0.0	0.0
174	8/10/2018	11:08:51	0.0	0.0	0.0	0.0

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175	8/10/2018	11:09:51	0.0	0.0	0.0	0.0
176	8/10/2018	11:10:51	0.0	0.0	0.0	0.0
177	8/10/2018	11:11:51	0.0	0.0	0.0	0.0
178	8/10/2018	11:12:51	0.0	0.0	0.0	0.0
179	8/10/2018	11:13:51	0.0	0.0	0.0	0.0
180	8/10/2018	11:14:51	0.0	0.0	0.0	0.0
181	8/10/2018	11:15:51	0.0	0.0	0.0	0.0
182	8/10/2018	11:16:51	0.0	0.0	0.0	0.0
183	8/10/2018	11:17:51	0.0	0.0	0.0	0.0
184	8/10/2018	11:18:51	0.0	0.0	0.0	0.0
185	8/10/2018	11:19:51	0.0	0.0	0.0	0.0
186	8/10/2018	11:20:51	0.0	0.0	0.0	0.0
187	8/10/2018	11:21:51	0.0	0.0	0.0	0.0
188	8/10/2018	11:22:51	0.0	0.0	0.0	0.0
189	8/10/2018	11:23:51	0.0	0.0	0.0	0.0
190	8/10/2018	11:24:51	0.0	0.0	0.0	0.0
191	8/10/2018	11:25:51	0.0	0.0	0.0	0.0
192	8/10/2018	11:26:51	0.0	0.0	0.0	0.0
193	8/10/2018	11:27:51	0.0	0.0	0.0	0.0
194	8/10/2018	11:28:51	0.0	0.0	0.0	0.0
195	8/10/2018	11:29:51	0.0	0.0	0.0	0.0
196	8/10/2018	11:30:51	0.0	0.0	0.0	0.0
197	8/10/2018	11:31:51	0.0	0.0	0.0	0.0
198	8/10/2018	11:32:51	0.0	0.0	0.0	0.0
199	8/10/2018	11:33:51	0.0	0.0	0.0	0.0
200	8/10/2018	11:34:51	0.0	0.0	0.0	0.0
201	8/10/2018	11:35:51	0.0	0.0	0.0	0.0
202	8/10/2018	11:36:51	0.0	0.0	0.0	0.0
203	8/10/2018	11:37:51	0.0	0.0	0.0	0.0
204	8/10/2018	11:38:51	0.0	0.0	0.0	0.0
205	8/10/2018	11:39:51	0.0	0.0	0.0	0.0
206	8/10/2018	11:40:51	0.0	0.0	0.0	0.0
207	8/10/2018	11:41:51	0.0	0.0	0.0	0.0
208	8/10/2018	11:42:51	0.0	0.0	0.0	0.0
209	8/10/2018	11:43:51	0.0	0.0	0.0	0.0
210	8/10/2018	11:44:51	0.0	0.0	0.0	0.0
211	8/10/2018	11:45:51	0.0	0.0	0.0	0.0
212	8/10/2018	11:46:51	0.0	0.0	0.0	0.0
213	8/10/2018	11:47:51	0.0	0.0	0.0	0.0
214	8/10/2018	11:48:51	0.0	0.0	0.0	0.0
215	8/10/2018	11:49:51	0.0	0.0	0.0	0.0
216	8/10/2018	11:50:51	0.0	0.0	0.0	0.0
217	8/10/2018	11:51:51	0.0	0.0	0.0	0.0
218	8/10/2018	11:52:51	0.0	0.0	0.0	0.0
219	8/10/2018	11:53:51	0.0	0.0	0.0	0.0
220	8/10/2018	11:54:51	0.0	0.0	0.0	0.0
221	8/10/2018	11:55:51	0.0	0.0	0.0	0.0
222	8/10/2018	11:56:51	0.0	0.0	0.0	0.0

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223	8/10/2018	11:57:51	0.0	0.0	0.0	0.0
224	8/10/2018	11:58:51	0.0	0.0	0.0	0.0
Peak		0.0	0.0	0.0	0.0	
Min		0.0	0.0	0.0	0.0	
Average		0.0	0.0	0.0	0.0	

TWA/STEL

Index	Date/Time	PID(ppm) (TWA)	PID(ppm) (STEL)
001	8/10/2018 08:15:51	0.0	---
002	8/10/2018 08:16:51	0.0	---
003	8/10/2018 08:17:51	0.0	---
004	8/10/2018 08:18:51	0.0	---
005	8/10/2018 08:19:51	0.0	---
006	8/10/2018 08:20:51	0.0	---
007	8/10/2018 08:21:51	0.0	---
008	8/10/2018 08:22:51	0.0	---
009	8/10/2018 08:23:51	0.0	---
010	8/10/2018 08:24:51	0.0	---
011	8/10/2018 08:25:51	0.0	---
012	8/10/2018 08:26:51	0.0	---
013	8/10/2018 08:27:51	0.0	---
014	8/10/2018 08:28:51	0.0	---
015	8/10/2018 08:29:51	0.0	0.0
016	8/10/2018 08:30:51	0.0	0.0
017	8/10/2018 08:31:51	0.0	0.0
018	8/10/2018 08:32:51	0.0	0.0
019	8/10/2018 08:33:51	0.0	0.0
020	8/10/2018 08:34:51	0.0	0.0
021	8/10/2018 08:35:51	0.0	0.0
022	8/10/2018 08:36:51	0.0	0.0
023	8/10/2018 08:37:51	0.0	0.0
024	8/10/2018 08:38:51	0.0	0.0
025	8/10/2018 08:39:51	0.0	0.0
026	8/10/2018 08:40:51	0.0	0.0
027	8/10/2018 08:41:51	0.0	0.0
028	8/10/2018 08:42:51	0.0	0.0
029	8/10/2018 08:43:51	0.0	0.0
030	8/10/2018 08:44:51	0.0	0.0
031	8/10/2018 08:45:51	0.0	0.0
032	8/10/2018 08:46:51	0.0	0.0
033	8/10/2018 08:47:51	0.0	0.0
034	8/10/2018 08:48:51	0.0	0.0
035	8/10/2018 08:49:51	0.0	0.0
036	8/10/2018 08:50:51	0.0	0.0
037	8/10/2018 08:51:51	0.0	0.0
038	8/10/2018 08:52:51	0.0	0.0

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039	8/10/2018	08:53:51	0.0	0.0
040	8/10/2018	08:54:51	0.0	0.0
041	8/10/2018	08:55:51	0.0	0.0
042	8/10/2018	08:56:51	0.0	0.0
043	8/10/2018	08:57:51	0.0	0.0
044	8/10/2018	08:58:51	0.0	0.0
045	8/10/2018	08:59:51	0.0	0.0
046	8/10/2018	09:00:51	0.0	0.0
047	8/10/2018	09:01:51	0.0	0.0
048	8/10/2018	09:02:51	0.0	0.0
049	8/10/2018	09:03:51	0.0	0.0
050	8/10/2018	09:04:51	0.0	0.0
051	8/10/2018	09:05:51	0.0	0.0
052	8/10/2018	09:06:51	0.0	0.0
053	8/10/2018	09:07:51	0.0	0.0
054	8/10/2018	09:08:51	0.0	0.0
055	8/10/2018	09:09:51	0.0	0.0
056	8/10/2018	09:10:51	0.0	0.0
057	8/10/2018	09:11:51	0.0	0.0
058	8/10/2018	09:12:51	0.0	0.0
059	8/10/2018	09:13:51	0.0	0.0
060	8/10/2018	09:14:51	0.0	0.0
061	8/10/2018	09:15:51	0.0	0.0
062	8/10/2018	09:16:51	0.0	0.0
063	8/10/2018	09:17:51	0.0	0.0
064	8/10/2018	09:18:51	0.0	0.0
065	8/10/2018	09:19:51	0.0	0.0
066	8/10/2018	09:20:51	0.0	0.0
067	8/10/2018	09:21:51	0.0	0.0
068	8/10/2018	09:22:51	0.0	0.0
069	8/10/2018	09:23:51	0.0	0.0
070	8/10/2018	09:24:51	0.0	0.0
071	8/10/2018	09:25:51	0.0	0.0
072	8/10/2018	09:26:51	0.0	0.0
073	8/10/2018	09:27:51	0.0	0.0
074	8/10/2018	09:28:51	0.0	0.0
075	8/10/2018	09:29:51	0.0	0.0
076	8/10/2018	09:30:51	0.0	0.0
077	8/10/2018	09:31:51	0.0	0.0
078	8/10/2018	09:32:51	0.0	0.0
079	8/10/2018	09:33:51	0.0	0.0
080	8/10/2018	09:34:51	0.0	0.0
081	8/10/2018	09:35:51	0.0	0.0
082	8/10/2018	09:36:51	0.0	0.0
083	8/10/2018	09:37:51	0.0	0.0
084	8/10/2018	09:38:51	0.0	0.0
085	8/10/2018	09:39:51	0.0	0.0
086	8/10/2018	09:40:51	0.0	0.0

PRS_EXPORT_20181119.txt38160

087	8/10/2018	09:41:51	0.0	0.0
088	8/10/2018	09:42:51	0.0	0.0
089	8/10/2018	09:43:51	0.0	0.0
090	8/10/2018	09:44:51	0.0	0.0
091	8/10/2018	09:45:51	0.0	0.0
092	8/10/2018	09:46:51	0.0	0.0
093	8/10/2018	09:47:51	0.0	0.0
094	8/10/2018	09:48:51	0.0	0.0
095	8/10/2018	09:49:51	0.0	0.0
096	8/10/2018	09:50:51	0.0	0.0
097	8/10/2018	09:51:51	0.0	0.0
098	8/10/2018	09:52:51	0.0	0.0
099	8/10/2018	09:53:51	0.0	0.0
100	8/10/2018	09:54:51	0.0	0.0
101	8/10/2018	09:55:51	0.0	0.0
102	8/10/2018	09:56:51	0.0	0.0
103	8/10/2018	09:57:51	0.0	0.0
104	8/10/2018	09:58:51	0.0	0.0
105	8/10/2018	09:59:51	0.0	0.0
106	8/10/2018	10:00:51	0.0	0.0
107	8/10/2018	10:01:51	0.0	0.0
108	8/10/2018	10:02:51	0.0	0.0
109	8/10/2018	10:03:51	0.0	0.0
110	8/10/2018	10:04:51	0.0	0.0
111	8/10/2018	10:05:51	0.0	0.0
112	8/10/2018	10:06:51	0.0	0.0
113	8/10/2018	10:07:51	0.0	0.0
114	8/10/2018	10:08:51	0.0	0.0
115	8/10/2018	10:09:51	0.0	0.0
116	8/10/2018	10:10:51	0.0	0.0
117	8/10/2018	10:11:51	0.0	0.0
118	8/10/2018	10:12:51	0.0	0.0
119	8/10/2018	10:13:51	0.0	0.0
120	8/10/2018	10:14:51	0.0	0.0
121	8/10/2018	10:15:51	0.0	0.0
122	8/10/2018	10:16:51	0.0	0.0
123	8/10/2018	10:17:51	0.0	0.0
124	8/10/2018	10:18:51	0.0	0.0
125	8/10/2018	10:19:51	0.0	0.0
126	8/10/2018	10:20:51	0.0	0.0
127	8/10/2018	10:21:51	0.0	0.0
128	8/10/2018	10:22:51	0.0	0.0
129	8/10/2018	10:23:51	0.0	0.0
130	8/10/2018	10:24:51	0.0	0.0
131	8/10/2018	10:25:51	0.0	0.0
132	8/10/2018	10:26:51	0.0	0.0
133	8/10/2018	10:27:51	0.0	0.0
134	8/10/2018	10:28:51	0.0	0.0

PRS_EXPORT_20181119.txt38160

135	8/10/2018	10:29:51	0.0	0.0
136	8/10/2018	10:30:51	0.0	0.0
137	8/10/2018	10:31:51	0.0	0.0
138	8/10/2018	10:32:51	0.0	0.0
139	8/10/2018	10:33:51	0.0	0.0
140	8/10/2018	10:34:51	0.0	0.0
141	8/10/2018	10:35:51	0.0	0.0
142	8/10/2018	10:36:51	0.0	0.0
143	8/10/2018	10:37:51	0.0	0.0
144	8/10/2018	10:38:51	0.0	0.0
145	8/10/2018	10:39:51	0.0	0.0
146	8/10/2018	10:40:51	0.0	0.0
147	8/10/2018	10:41:51	0.0	0.0
148	8/10/2018	10:42:51	0.0	0.0
149	8/10/2018	10:43:51	0.0	0.0
150	8/10/2018	10:44:51	0.0	0.0
151	8/10/2018	10:45:51	0.0	0.0
152	8/10/2018	10:46:51	0.0	0.0
153	8/10/2018	10:47:51	0.0	0.0
154	8/10/2018	10:48:51	0.0	0.0
155	8/10/2018	10:49:51	0.0	0.0
156	8/10/2018	10:50:51	0.0	0.0
157	8/10/2018	10:51:51	0.0	0.0
158	8/10/2018	10:52:51	0.0	0.0
159	8/10/2018	10:53:51	0.0	0.0
160	8/10/2018	10:54:51	0.0	0.0
161	8/10/2018	10:55:51	0.0	0.0
162	8/10/2018	10:56:51	0.0	0.0
163	8/10/2018	10:57:51	0.0	0.0
164	8/10/2018	10:58:51	0.0	0.0
165	8/10/2018	10:59:51	0.0	0.0
166	8/10/2018	11:00:51	0.0	0.0
167	8/10/2018	11:01:51	0.0	0.0
168	8/10/2018	11:02:51	0.0	0.0
169	8/10/2018	11:03:51	0.0	0.0
170	8/10/2018	11:04:51	0.0	0.0
171	8/10/2018	11:05:51	0.0	0.0
172	8/10/2018	11:06:51	0.0	0.0
173	8/10/2018	11:07:51	0.0	0.0
174	8/10/2018	11:08:51	0.0	0.0
175	8/10/2018	11:09:51	0.0	0.0
176	8/10/2018	11:10:51	0.0	0.0
177	8/10/2018	11:11:51	0.0	0.0
178	8/10/2018	11:12:51	0.0	0.0
179	8/10/2018	11:13:51	0.0	0.0
180	8/10/2018	11:14:51	0.0	0.0
181	8/10/2018	11:15:51	0.0	0.0
182	8/10/2018	11:16:51	0.0	0.0

183	8/10/2018	11:17:51	0.0	0.0
184	8/10/2018	11:18:51	0.0	0.0
185	8/10/2018	11:19:51	0.0	0.0
186	8/10/2018	11:20:51	0.0	0.0
187	8/10/2018	11:21:51	0.0	0.0
188	8/10/2018	11:22:51	0.0	0.0
189	8/10/2018	11:23:51	0.0	0.0
190	8/10/2018	11:24:51	0.0	0.0
191	8/10/2018	11:25:51	0.0	0.0
192	8/10/2018	11:26:51	0.0	0.0
193	8/10/2018	11:27:51	0.0	0.0
194	8/10/2018	11:28:51	0.0	0.0
195	8/10/2018	11:29:51	0.0	0.0
196	8/10/2018	11:30:51	0.0	0.0
197	8/10/2018	11:31:51	0.0	0.0
198	8/10/2018	11:32:51	0.0	0.0
199	8/10/2018	11:33:51	0.0	0.0
200	8/10/2018	11:34:51	0.0	0.0
201	8/10/2018	11:35:51	0.0	0.0
202	8/10/2018	11:36:51	0.0	0.0
203	8/10/2018	11:37:51	0.0	0.0
204	8/10/2018	11:38:51	0.0	0.0
205	8/10/2018	11:39:51	0.0	0.0
206	8/10/2018	11:40:51	0.0	0.0
207	8/10/2018	11:41:51	0.0	0.0
208	8/10/2018	11:42:51	0.0	0.0
209	8/10/2018	11:43:51	0.0	0.0
210	8/10/2018	11:44:51	0.0	0.0
211	8/10/2018	11:45:51	0.0	0.0
212	8/10/2018	11:46:51	0.0	0.0
213	8/10/2018	11:47:51	0.0	0.0
214	8/10/2018	11:48:51	0.0	0.0
215	8/10/2018	11:49:51	0.0	0.0
216	8/10/2018	11:50:51	0.0	0.0
217	8/10/2018	11:51:51	0.0	0.0
218	8/10/2018	11:52:51	0.0	0.0
219	8/10/2018	11:53:51	0.0	0.0
220	8/10/2018	11:54:51	0.0	0.0
221	8/10/2018	11:55:51	0.0	0.0
222	8/10/2018	11:56:51	0.0	0.0
223	8/10/2018	11:57:51	0.0	0.0
224	8/10/2018	11:58:51	0.0	0.0

=====
18/08/13 11:23

Summary

Unit Name MiniRAE 3000(PGM-7320)

Unit SN 592-919975
Unit Firmware Ver V2.14

Running Mode Hygiene Mode
Datalog Mode Manual
Diagnostic Mode No
Stop Reason Power Down

Site ID RAE00000
User ID UW000000

Begin 8/13/2018 11:23:10
End 8/13/2018 14:54:58
Sample Period(s) 60
Number of Records 211

Sensor PID(ppm)
Sensor SN S023030116U2
Measure Type Min; Avg; Max; Real
Span 100.0
Span 2 1000.0
Low Alarm 50.0
High Alarm 100.0
Over Alarm 15000.0
STEL Alarm 25.0
TWA Alarm 10.0
Measurement Gas Isobutylene
Calibration Time 8/13/2018 08:21
Peak 0.0
Min 0.0
Average 0.0

Datalog

Index	Date/Time	PID(ppm) (Min)	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)	PID(ppm)
001	8/13/2018 11:24:10	0.0	0.0	0.0	0.0	0.0
002	8/13/2018 11:25:10	0.0	0.0	0.0	0.0	0.0
003	8/13/2018 11:26:10	0.0	0.0	0.0	0.0	0.0
004	8/13/2018 11:27:10	0.0	0.0	0.0	0.0	0.0
005	8/13/2018 11:28:10	0.0	0.0	0.0	0.0	0.0
006	8/13/2018 11:29:10	0.0	0.0	0.0	0.0	0.0
007	8/13/2018 11:30:10	0.0	0.0	0.0	0.0	0.0
008	8/13/2018 11:31:10	0.0	0.0	0.0	0.0	0.0
009	8/13/2018 11:32:10	0.0	0.0	0.0	0.0	0.0
010	8/13/2018 11:33:10	0.0	0.0	0.0	0.0	0.0
011	8/13/2018 11:34:10	0.0	0.0	0.0	0.0	0.0
012	8/13/2018 11:35:10	0.0	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

013	8/13/2018	11:36:10	0.0	0.0	0.0	0.0
014	8/13/2018	11:37:10	0.0	0.0	0.0	0.0
015	8/13/2018	11:38:10	0.0	0.0	0.0	0.0
016	8/13/2018	11:39:10	0.0	0.0	0.0	0.0
017	8/13/2018	11:40:10	0.0	0.0	0.0	0.0
018	8/13/2018	11:41:10	0.0	0.0	0.0	0.0
019	8/13/2018	11:42:10	0.0	0.0	0.0	0.0
020	8/13/2018	11:43:10	0.0	0.0	0.0	0.0
021	8/13/2018	11:44:10	0.0	0.0	0.0	0.0
022	8/13/2018	11:45:10	0.0	0.0	0.0	0.0
023	8/13/2018	11:46:10	0.0	0.0	0.0	0.0
024	8/13/2018	11:47:10	0.0	0.0	0.0	0.0
025	8/13/2018	11:48:10	0.0	0.0	0.0	0.0
026	8/13/2018	11:49:10	0.0	0.0	0.0	0.0
027	8/13/2018	11:50:10	0.0	0.0	0.0	0.0
028	8/13/2018	11:51:10	0.0	0.0	0.0	0.0
029	8/13/2018	11:52:10	0.0	0.0	0.0	0.0
030	8/13/2018	11:53:10	0.0	0.0	0.0	0.0
031	8/13/2018	11:54:10	0.0	0.0	0.0	0.0
032	8/13/2018	11:55:10	0.0	0.0	0.0	0.0
033	8/13/2018	11:56:10	0.0	0.0	0.0	0.0
034	8/13/2018	11:57:10	0.0	0.0	0.0	0.0
035	8/13/2018	11:58:10	0.0	0.0	0.0	0.0
036	8/13/2018	11:59:10	0.0	0.0	0.0	0.0
037	8/13/2018	12:00:10	0.0	0.0	0.0	0.0
038	8/13/2018	12:01:10	0.0	0.0	0.0	0.0
039	8/13/2018	12:02:10	0.0	0.0	0.0	0.0
040	8/13/2018	12:03:10	0.0	0.0	0.0	0.0
041	8/13/2018	12:04:10	0.0	0.0	0.0	0.0
042	8/13/2018	12:05:10	0.0	0.0	0.0	0.0
043	8/13/2018	12:06:10	0.0	0.0	0.0	0.0
044	8/13/2018	12:07:10	0.0	0.0	0.0	0.0
045	8/13/2018	12:08:10	0.0	0.0	0.0	0.0
046	8/13/2018	12:09:10	0.0	0.0	0.0	0.0
047	8/13/2018	12:10:10	0.0	0.0	0.0	0.0
048	8/13/2018	12:11:10	0.0	0.0	0.0	0.0
049	8/13/2018	12:12:10	0.0	0.0	0.0	0.0
050	8/13/2018	12:13:10	0.0	0.0	0.0	0.0
051	8/13/2018	12:14:10	0.0	0.0	0.0	0.0
052	8/13/2018	12:15:10	0.0	0.0	0.0	0.0
053	8/13/2018	12:16:10	0.0	0.0	0.0	0.0
054	8/13/2018	12:17:10	0.0	0.0	0.0	0.0
055	8/13/2018	12:18:10	0.0	0.0	0.0	0.0
056	8/13/2018	12:19:10	0.0	0.0	0.0	0.0
057	8/13/2018	12:20:10	0.0	0.0	0.0	0.0
058	8/13/2018	12:21:10	0.0	0.0	0.0	0.0
059	8/13/2018	12:22:10	0.0	0.0	0.0	0.0
060	8/13/2018	12:23:10	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

061	8/13/2018	12:24:10	0.0	0.0	0.0	0.0
062	8/13/2018	12:25:10	0.0	0.0	0.0	0.0
063	8/13/2018	12:26:10	0.0	0.0	0.0	0.0
064	8/13/2018	12:27:10	0.0	0.0	0.0	0.0
065	8/13/2018	12:28:10	0.0	0.0	0.0	0.0
066	8/13/2018	12:29:10	0.0	0.0	0.0	0.0
067	8/13/2018	12:30:10	0.0	0.0	0.0	0.0
068	8/13/2018	12:31:10	0.0	0.0	0.0	0.0
069	8/13/2018	12:32:10	0.0	0.0	0.0	0.0
070	8/13/2018	12:33:10	0.0	0.0	0.0	0.0
071	8/13/2018	12:34:10	0.0	0.0	0.0	0.0
072	8/13/2018	12:35:10	0.0	0.0	0.0	0.0
073	8/13/2018	12:36:10	0.0	0.0	0.0	0.0
074	8/13/2018	12:37:10	0.0	0.0	0.0	0.0
075	8/13/2018	12:38:10	0.0	0.0	0.0	0.0
076	8/13/2018	12:39:10	0.0	0.0	0.0	0.0
077	8/13/2018	12:40:10	0.0	0.0	0.0	0.0
078	8/13/2018	12:41:10	0.0	0.0	0.0	0.0
079	8/13/2018	12:42:10	0.0	0.0	0.0	0.0
080	8/13/2018	12:43:10	0.0	0.0	0.0	0.0
081	8/13/2018	12:44:10	0.0	0.0	0.0	0.0
082	8/13/2018	12:45:10	0.0	0.0	0.0	0.0
083	8/13/2018	12:46:10	0.0	0.0	0.0	0.0
084	8/13/2018	12:47:10	0.0	0.0	0.0	0.0
085	8/13/2018	12:48:10	0.0	0.0	0.0	0.0
086	8/13/2018	12:49:10	0.0	0.0	0.0	0.0
087	8/13/2018	12:50:10	0.0	0.0	0.0	0.0
088	8/13/2018	12:51:10	0.0	0.0	0.0	0.0
089	8/13/2018	12:52:10	0.0	0.0	0.0	0.0
090	8/13/2018	12:53:10	0.0	0.0	0.0	0.0
091	8/13/2018	12:54:10	0.0	0.0	0.0	0.0
092	8/13/2018	12:55:10	0.0	0.0	0.0	0.0
093	8/13/2018	12:56:10	0.0	0.0	0.0	0.0
094	8/13/2018	12:57:10	0.0	0.0	0.0	0.0
095	8/13/2018	12:58:10	0.0	0.0	0.0	0.0
096	8/13/2018	12:59:10	0.0	0.0	0.0	0.0
097	8/13/2018	13:00:10	0.0	0.0	0.0	0.0
098	8/13/2018	13:01:10	0.0	0.0	0.0	0.0
099	8/13/2018	13:02:10	0.0	0.0	0.0	0.0
100	8/13/2018	13:03:10	0.0	0.0	0.0	0.0
101	8/13/2018	13:04:10	0.0	0.0	0.0	0.0
102	8/13/2018	13:05:10	0.0	0.0	0.0	0.0
103	8/13/2018	13:06:10	0.0	0.0	0.0	0.0
104	8/13/2018	13:07:10	0.0	0.0	0.0	0.0
105	8/13/2018	13:08:10	0.0	0.0	0.0	0.0
106	8/13/2018	13:09:10	0.0	0.0	0.0	0.0
107	8/13/2018	13:10:10	0.0	0.0	0.0	0.0
108	8/13/2018	13:11:10	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

109	8/13/2018	13:12:10	0.0	0.0	0.0	0.0
110	8/13/2018	13:13:10	0.0	0.0	0.0	0.0
111	8/13/2018	13:14:10	0.0	0.0	0.0	0.0
112	8/13/2018	13:15:10	0.0	0.0	0.0	0.0
113	8/13/2018	13:16:10	0.0	0.0	0.0	0.0
114	8/13/2018	13:17:10	0.0	0.0	0.0	0.0
115	8/13/2018	13:18:10	0.0	0.0	0.0	0.0
116	8/13/2018	13:19:10	0.0	0.0	0.0	0.0
117	8/13/2018	13:20:10	0.0	0.0	0.0	0.0
118	8/13/2018	13:21:10	0.0	0.0	0.0	0.0
119	8/13/2018	13:22:10	0.0	0.0	0.0	0.0
120	8/13/2018	13:23:10	0.0	0.0	0.0	0.0
121	8/13/2018	13:24:10	0.0	0.0	0.0	0.0
122	8/13/2018	13:25:10	0.0	0.0	0.0	0.0
123	8/13/2018	13:26:10	0.0	0.0	0.0	0.0
124	8/13/2018	13:27:10	0.0	0.0	0.0	0.0
125	8/13/2018	13:28:10	0.0	0.0	0.0	0.0
126	8/13/2018	13:29:10	0.0	0.0	0.0	0.0
127	8/13/2018	13:30:10	0.0	0.0	0.0	0.0
128	8/13/2018	13:31:10	0.0	0.0	0.0	0.0
129	8/13/2018	13:32:10	0.0	0.0	0.0	0.0
130	8/13/2018	13:33:10	0.0	0.0	0.0	0.0
131	8/13/2018	13:34:10	0.0	0.0	0.0	0.0
132	8/13/2018	13:35:10	0.0	0.0	0.0	0.0
133	8/13/2018	13:36:10	0.0	0.0	0.0	0.0
134	8/13/2018	13:37:10	0.0	0.0	0.0	0.0
135	8/13/2018	13:38:10	0.0	0.0	0.0	0.0
136	8/13/2018	13:39:10	0.0	0.0	0.0	0.0
137	8/13/2018	13:40:10	0.0	0.0	0.0	0.0
138	8/13/2018	13:41:10	0.0	0.0	0.0	0.0
139	8/13/2018	13:42:10	0.0	0.0	0.0	0.0
140	8/13/2018	13:43:10	0.0	0.0	0.0	0.0
141	8/13/2018	13:44:10	0.0	0.0	0.0	0.0
142	8/13/2018	13:45:10	0.0	0.0	0.0	0.0
143	8/13/2018	13:46:10	0.0	0.0	0.0	0.0
144	8/13/2018	13:47:10	0.0	0.0	0.0	0.0
145	8/13/2018	13:48:10	0.0	0.0	0.0	0.0
146	8/13/2018	13:49:10	0.0	0.0	0.0	0.0
147	8/13/2018	13:50:10	0.0	0.0	0.0	0.0
148	8/13/2018	13:51:10	0.0	0.0	0.0	0.0
149	8/13/2018	13:52:10	0.0	0.0	0.0	0.0
150	8/13/2018	13:53:10	0.0	0.0	0.0	0.0
151	8/13/2018	13:54:10	0.0	0.0	0.0	0.0
152	8/13/2018	13:55:10	0.0	0.0	0.0	0.0
153	8/13/2018	13:56:10	0.0	0.0	0.0	0.0
154	8/13/2018	13:57:10	0.0	0.0	0.0	0.0
155	8/13/2018	13:58:10	0.0	0.0	0.0	0.0
156	8/13/2018	13:59:10	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

157	8/13/2018	14:00:10	0.0	0.0	0.0	0.0
158	8/13/2018	14:01:10	0.0	0.0	0.0	0.0
159	8/13/2018	14:02:10	0.0	0.0	0.0	0.0
160	8/13/2018	14:03:10	0.0	0.0	0.0	0.0
161	8/13/2018	14:04:10	0.0	0.0	0.0	0.0
162	8/13/2018	14:05:10	0.0	0.0	0.0	0.0
163	8/13/2018	14:06:10	0.0	0.0	0.0	0.0
164	8/13/2018	14:07:10	0.0	0.0	0.0	0.0
165	8/13/2018	14:08:10	0.0	0.0	0.0	0.0
166	8/13/2018	14:09:10	0.0	0.0	0.0	0.0
167	8/13/2018	14:10:10	0.0	0.0	0.0	0.0
168	8/13/2018	14:11:10	0.0	0.0	0.0	0.0
169	8/13/2018	14:12:10	0.0	0.0	0.0	0.0
170	8/13/2018	14:13:10	0.0	0.0	0.0	0.0
171	8/13/2018	14:14:10	0.0	0.0	0.0	0.0
172	8/13/2018	14:15:10	0.0	0.0	0.0	0.0
173	8/13/2018	14:16:10	0.0	0.0	0.0	0.0
174	8/13/2018	14:17:10	0.0	0.0	0.0	0.0
175	8/13/2018	14:18:10	0.0	0.0	0.0	0.0
176	8/13/2018	14:19:10	0.0	0.0	0.0	0.0
177	8/13/2018	14:20:10	0.0	0.0	0.0	0.0
178	8/13/2018	14:21:10	0.0	0.0	0.0	0.0
179	8/13/2018	14:22:10	0.0	0.0	0.0	0.0
180	8/13/2018	14:23:10	0.0	0.0	0.0	0.0
181	8/13/2018	14:24:10	0.0	0.0	0.0	0.0
182	8/13/2018	14:25:10	0.0	0.0	0.0	0.0
183	8/13/2018	14:26:10	0.0	0.0	0.0	0.0
184	8/13/2018	14:27:10	0.0	0.0	0.0	0.0
185	8/13/2018	14:28:10	0.0	0.0	0.0	0.0
186	8/13/2018	14:29:10	0.0	0.0	0.0	0.0
187	8/13/2018	14:30:10	0.0	0.0	0.0	0.0
188	8/13/2018	14:31:10	0.0	0.0	0.0	0.0
189	8/13/2018	14:32:10	0.0	0.0	0.0	0.0
190	8/13/2018	14:33:10	0.0	0.0	0.0	0.0
191	8/13/2018	14:34:10	0.0	0.0	0.0	0.0
192	8/13/2018	14:35:10	0.0	0.0	0.0	0.0
193	8/13/2018	14:36:10	0.0	0.0	0.0	0.0
194	8/13/2018	14:37:10	0.0	0.0	0.0	0.0
195	8/13/2018	14:38:10	0.0	0.0	0.0	0.0
196	8/13/2018	14:39:10	0.0	0.0	0.0	0.0
197	8/13/2018	14:40:10	0.0	0.0	0.0	0.0
198	8/13/2018	14:41:10	0.0	0.0	0.0	0.0
199	8/13/2018	14:42:10	0.0	0.0	0.0	0.0
200	8/13/2018	14:43:10	0.0	0.0	0.0	0.0
201	8/13/2018	14:44:10	0.0	0.0	0.0	0.0
202	8/13/2018	14:45:10	0.0	0.0	0.0	0.0
203	8/13/2018	14:46:10	0.0	0.0	0.0	0.0
204	8/13/2018	14:47:10	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

205	8/13/2018	14:48:10	0.0	0.0	0.0	0.0
206	8/13/2018	14:49:10	0.0	0.0	0.0	0.0
207	8/13/2018	14:50:10	0.0	0.0	0.0	0.0
208	8/13/2018	14:51:10	0.0	0.0	0.0	0.0
209	8/13/2018	14:52:10	0.0	0.0	0.0	0.0
210	8/13/2018	14:53:10	0.0	0.0	0.0	0.0
211	8/13/2018	14:54:10	0.0	0.0	0.0	0.0
Peak		0.0 0.0	0.0	0.0		
Min		0.0 0.0	0.0	0.0		
Average		0.0 0.0	0.0	0.0		

TWA/STEL

Index	Date/Time	PID(ppm) (TWA)	PID(ppm) (STEL)
001	8/13/2018 11:24:10	0.0	---
002	8/13/2018 11:25:10	0.0	---
003	8/13/2018 11:26:10	0.0	---
004	8/13/2018 11:27:10	0.0	---
005	8/13/2018 11:28:10	0.0	---
006	8/13/2018 11:29:10	0.0	---
007	8/13/2018 11:30:10	0.0	---
008	8/13/2018 11:31:10	0.0	---
009	8/13/2018 11:32:10	0.0	---
010	8/13/2018 11:33:10	0.0	---
011	8/13/2018 11:34:10	0.0	---
012	8/13/2018 11:35:10	0.0	---
013	8/13/2018 11:36:10	0.0	---
014	8/13/2018 11:37:10	0.0	---
015	8/13/2018 11:38:10	0.0	0.0
016	8/13/2018 11:39:10	0.0	0.0
017	8/13/2018 11:40:10	0.0	0.0
018	8/13/2018 11:41:10	0.0	0.0
019	8/13/2018 11:42:10	0.0	0.0
020	8/13/2018 11:43:10	0.0	0.0
021	8/13/2018 11:44:10	0.0	0.0
022	8/13/2018 11:45:10	0.0	0.0
023	8/13/2018 11:46:10	0.0	0.0
024	8/13/2018 11:47:10	0.0	0.0
025	8/13/2018 11:48:10	0.0	0.0
026	8/13/2018 11:49:10	0.0	0.0
027	8/13/2018 11:50:10	0.0	0.0
028	8/13/2018 11:51:10	0.0	0.0
029	8/13/2018 11:52:10	0.0	0.0
030	8/13/2018 11:53:10	0.0	0.0
031	8/13/2018 11:54:10	0.0	0.0
032	8/13/2018 11:55:10	0.0	0.0
033	8/13/2018 11:56:10	0.0	0.0

PRS_EXPORT_20181119.txt38160

034	8/13/2018	11:57:10	0.0	0.0
035	8/13/2018	11:58:10	0.0	0.0
036	8/13/2018	11:59:10	0.0	0.0
037	8/13/2018	12:00:10	0.0	0.0
038	8/13/2018	12:01:10	0.0	0.0
039	8/13/2018	12:02:10	0.0	0.0
040	8/13/2018	12:03:10	0.0	0.0
041	8/13/2018	12:04:10	0.0	0.0
042	8/13/2018	12:05:10	0.0	0.0
043	8/13/2018	12:06:10	0.0	0.0
044	8/13/2018	12:07:10	0.0	0.0
045	8/13/2018	12:08:10	0.0	0.0
046	8/13/2018	12:09:10	0.0	0.0
047	8/13/2018	12:10:10	0.0	0.0
048	8/13/2018	12:11:10	0.0	0.0
049	8/13/2018	12:12:10	0.0	0.0
050	8/13/2018	12:13:10	0.0	0.0
051	8/13/2018	12:14:10	0.0	0.0
052	8/13/2018	12:15:10	0.0	0.0
053	8/13/2018	12:16:10	0.0	0.0
054	8/13/2018	12:17:10	0.0	0.0
055	8/13/2018	12:18:10	0.0	0.0
056	8/13/2018	12:19:10	0.0	0.0
057	8/13/2018	12:20:10	0.0	0.0
058	8/13/2018	12:21:10	0.0	0.0
059	8/13/2018	12:22:10	0.0	0.0
060	8/13/2018	12:23:10	0.0	0.0
061	8/13/2018	12:24:10	0.0	0.0
062	8/13/2018	12:25:10	0.0	0.0
063	8/13/2018	12:26:10	0.0	0.0
064	8/13/2018	12:27:10	0.0	0.0
065	8/13/2018	12:28:10	0.0	0.0
066	8/13/2018	12:29:10	0.0	0.0
067	8/13/2018	12:30:10	0.0	0.0
068	8/13/2018	12:31:10	0.0	0.0
069	8/13/2018	12:32:10	0.0	0.0
070	8/13/2018	12:33:10	0.0	0.0
071	8/13/2018	12:34:10	0.0	0.0
072	8/13/2018	12:35:10	0.0	0.0
073	8/13/2018	12:36:10	0.0	0.0
074	8/13/2018	12:37:10	0.0	0.0
075	8/13/2018	12:38:10	0.0	0.0
076	8/13/2018	12:39:10	0.0	0.0
077	8/13/2018	12:40:10	0.0	0.0
078	8/13/2018	12:41:10	0.0	0.0
079	8/13/2018	12:42:10	0.0	0.0
080	8/13/2018	12:43:10	0.0	0.0
081	8/13/2018	12:44:10	0.0	0.0

PRS_EXPORT_20181119.txt38160

082	8/13/2018	12:45:10	0.0	0.0
083	8/13/2018	12:46:10	0.0	0.0
084	8/13/2018	12:47:10	0.0	0.0
085	8/13/2018	12:48:10	0.0	0.0
086	8/13/2018	12:49:10	0.0	0.0
087	8/13/2018	12:50:10	0.0	0.0
088	8/13/2018	12:51:10	0.0	0.0
089	8/13/2018	12:52:10	0.0	0.0
090	8/13/2018	12:53:10	0.0	0.0
091	8/13/2018	12:54:10	0.0	0.0
092	8/13/2018	12:55:10	0.0	0.0
093	8/13/2018	12:56:10	0.0	0.0
094	8/13/2018	12:57:10	0.0	0.0
095	8/13/2018	12:58:10	0.0	0.0
096	8/13/2018	12:59:10	0.0	0.0
097	8/13/2018	13:00:10	0.0	0.0
098	8/13/2018	13:01:10	0.0	0.0
099	8/13/2018	13:02:10	0.0	0.0
100	8/13/2018	13:03:10	0.0	0.0
101	8/13/2018	13:04:10	0.0	0.0
102	8/13/2018	13:05:10	0.0	0.0
103	8/13/2018	13:06:10	0.0	0.0
104	8/13/2018	13:07:10	0.0	0.0
105	8/13/2018	13:08:10	0.0	0.0
106	8/13/2018	13:09:10	0.0	0.0
107	8/13/2018	13:10:10	0.0	0.0
108	8/13/2018	13:11:10	0.0	0.0
109	8/13/2018	13:12:10	0.0	0.0
110	8/13/2018	13:13:10	0.0	0.0
111	8/13/2018	13:14:10	0.0	0.0
112	8/13/2018	13:15:10	0.0	0.0
113	8/13/2018	13:16:10	0.0	0.0
114	8/13/2018	13:17:10	0.0	0.0
115	8/13/2018	13:18:10	0.0	0.0
116	8/13/2018	13:19:10	0.0	0.0
117	8/13/2018	13:20:10	0.0	0.0
118	8/13/2018	13:21:10	0.0	0.0
119	8/13/2018	13:22:10	0.0	0.0
120	8/13/2018	13:23:10	0.0	0.0
121	8/13/2018	13:24:10	0.0	0.0
122	8/13/2018	13:25:10	0.0	0.0
123	8/13/2018	13:26:10	0.0	0.0
124	8/13/2018	13:27:10	0.0	0.0
125	8/13/2018	13:28:10	0.0	0.0
126	8/13/2018	13:29:10	0.0	0.0
127	8/13/2018	13:30:10	0.0	0.0
128	8/13/2018	13:31:10	0.0	0.0
129	8/13/2018	13:32:10	0.0	0.0

130	8/13/2018	13:33:10	0.0	0.0
131	8/13/2018	13:34:10	0.0	0.0
132	8/13/2018	13:35:10	0.0	0.0
133	8/13/2018	13:36:10	0.0	0.0
134	8/13/2018	13:37:10	0.0	0.0
135	8/13/2018	13:38:10	0.0	0.0
136	8/13/2018	13:39:10	0.0	0.0
137	8/13/2018	13:40:10	0.0	0.0
138	8/13/2018	13:41:10	0.0	0.0
139	8/13/2018	13:42:10	0.0	0.0
140	8/13/2018	13:43:10	0.0	0.0
141	8/13/2018	13:44:10	0.0	0.0
142	8/13/2018	13:45:10	0.0	0.0
143	8/13/2018	13:46:10	0.0	0.0
144	8/13/2018	13:47:10	0.0	0.0
145	8/13/2018	13:48:10	0.0	0.0
146	8/13/2018	13:49:10	0.0	0.0
147	8/13/2018	13:50:10	0.0	0.0
148	8/13/2018	13:51:10	0.0	0.0
149	8/13/2018	13:52:10	0.0	0.0
150	8/13/2018	13:53:10	0.0	0.0
151	8/13/2018	13:54:10	0.0	0.0
152	8/13/2018	13:55:10	0.0	0.0
153	8/13/2018	13:56:10	0.0	0.0
154	8/13/2018	13:57:10	0.0	0.0
155	8/13/2018	13:58:10	0.0	0.0
156	8/13/2018	13:59:10	0.0	0.0
157	8/13/2018	14:00:10	0.0	0.0
158	8/13/2018	14:01:10	0.0	0.0
159	8/13/2018	14:02:10	0.0	0.0
160	8/13/2018	14:03:10	0.0	0.0
161	8/13/2018	14:04:10	0.0	0.0
162	8/13/2018	14:05:10	0.0	0.0
163	8/13/2018	14:06:10	0.0	0.0
164	8/13/2018	14:07:10	0.0	0.0
165	8/13/2018	14:08:10	0.0	0.0
166	8/13/2018	14:09:10	0.0	0.0
167	8/13/2018	14:10:10	0.0	0.0
168	8/13/2018	14:11:10	0.0	0.0
169	8/13/2018	14:12:10	0.0	0.0
170	8/13/2018	14:13:10	0.0	0.0
171	8/13/2018	14:14:10	0.0	0.0
172	8/13/2018	14:15:10	0.0	0.0
173	8/13/2018	14:16:10	0.0	0.0
174	8/13/2018	14:17:10	0.0	0.0
175	8/13/2018	14:18:10	0.0	0.0
176	8/13/2018	14:19:10	0.0	0.0
177	8/13/2018	14:20:10	0.0	0.0

PRS_EXPORT_20181119.txt38160

178	8/13/2018	14:21:10	0.0	0.0
179	8/13/2018	14:22:10	0.0	0.0
180	8/13/2018	14:23:10	0.0	0.0
181	8/13/2018	14:24:10	0.0	0.0
182	8/13/2018	14:25:10	0.0	0.0
183	8/13/2018	14:26:10	0.0	0.0
184	8/13/2018	14:27:10	0.0	0.0
185	8/13/2018	14:28:10	0.0	0.0
186	8/13/2018	14:29:10	0.0	0.0
187	8/13/2018	14:30:10	0.0	0.0
188	8/13/2018	14:31:10	0.0	0.0
189	8/13/2018	14:32:10	0.0	0.0
190	8/13/2018	14:33:10	0.0	0.0
191	8/13/2018	14:34:10	0.0	0.0
192	8/13/2018	14:35:10	0.0	0.0
193	8/13/2018	14:36:10	0.0	0.0
194	8/13/2018	14:37:10	0.0	0.0
195	8/13/2018	14:38:10	0.0	0.0
196	8/13/2018	14:39:10	0.0	0.0
197	8/13/2018	14:40:10	0.0	0.0
198	8/13/2018	14:41:10	0.0	0.0
199	8/13/2018	14:42:10	0.0	0.0
200	8/13/2018	14:43:10	0.0	0.0
201	8/13/2018	14:44:10	0.0	0.0
202	8/13/2018	14:45:10	0.0	0.0
203	8/13/2018	14:46:10	0.0	0.0
204	8/13/2018	14:47:10	0.0	0.0
205	8/13/2018	14:48:10	0.0	0.0
206	8/13/2018	14:49:10	0.0	0.0
207	8/13/2018	14:50:10	0.0	0.0
208	8/13/2018	14:51:10	0.0	0.0
209	8/13/2018	14:52:10	0.0	0.0
210	8/13/2018	14:53:10	0.0	0.0
211	8/13/2018	14:54:10	0.0	0.0

=====
18/08/14 08:28

Summary

Unit Name MiniRAE 3000(PGM-7320)
Unit SN 592-919975
Unit Firmware Ver V2.14

Running Mode Hygiene Mode
Datalog Mode Manual
Diagnostic Mode No
Stop Reason Power Down

Site ID RAE00000
 User ID UW000000

 Begin 8/14/2018 08:28:53
 End 8/14/2018 15:44:04
 Sample Period(s) 60
 Number of Records 435

Sensor PID(ppm)
 Sensor SN S023030116U2
 Measure Type Min; Avg; Max; Real
 Span 100.0
 Span 2 1000.0
 Low Alarm 50.0
 High Alarm 100.0
 Over Alarm 15000.0
 STEL Alarm 25.0
 TWA Alarm 10.0
 Measurement Gas Isobutylene
 Calibration Time 8/14/2018 08:20
 Peak 0.0
 Min 0.0
 Average 0.0

Datalog

Index	Date/Time	PID(ppm) (Min)	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)	PID(ppm)
001	8/14/2018 08:29:53	0.0	0.0	0.0	0.0	0.0
002	8/14/2018 08:30:53	0.0	0.0	0.0	0.0	0.0
003	8/14/2018 08:31:53	0.0	0.0	0.0	0.0	0.0
004	8/14/2018 08:32:53	0.0	0.0	0.0	0.0	0.0
005	8/14/2018 08:33:53	0.0	0.0	0.0	0.0	0.0
006	8/14/2018 08:34:53	0.0	0.0	0.0	0.0	0.0
007	8/14/2018 08:35:53	0.0	0.0	0.0	0.0	0.0
008	8/14/2018 08:36:53	0.0	0.0	0.0	0.0	0.0
009	8/14/2018 08:37:53	0.0	0.0	0.0	0.0	0.0
010	8/14/2018 08:38:53	0.0	0.0	0.0	0.0	0.0
011	8/14/2018 08:39:53	0.0	0.0	0.0	0.0	0.0
012	8/14/2018 08:40:53	0.0	0.0	0.0	0.0	0.0
013	8/14/2018 08:41:53	0.0	0.0	0.0	0.0	0.0
014	8/14/2018 08:42:53	0.0	0.0	0.0	0.0	0.0
015	8/14/2018 08:43:53	0.0	0.0	0.0	0.0	0.0
016	8/14/2018 08:44:53	0.0	0.0	0.0	0.0	0.0
017	8/14/2018 08:45:53	0.0	0.0	0.0	0.0	0.0
018	8/14/2018 08:46:53	0.0	0.0	0.0	0.0	0.0
019	8/14/2018 08:47:53	0.0	0.0	0.0	0.0	0.0
020	8/14/2018 08:48:53	0.0	0.0	0.0	0.0	0.0

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021	8/14/2018	08:49:53	0.0	0.0	0.0	0.0
022	8/14/2018	08:50:53	0.0	0.0	0.0	0.0
023	8/14/2018	08:51:53	0.0	0.0	0.0	0.0
024	8/14/2018	08:52:53	0.0	0.0	0.0	0.0
025	8/14/2018	08:53:53	0.0	0.0	0.0	0.0
026	8/14/2018	08:54:53	0.0	0.0	0.0	0.0
027	8/14/2018	08:55:53	0.0	0.0	0.0	0.0
028	8/14/2018	08:56:53	0.0	0.0	0.0	0.0
029	8/14/2018	08:57:53	0.0	0.0	0.0	0.0
030	8/14/2018	08:58:53	0.0	0.0	0.0	0.0
031	8/14/2018	08:59:53	0.0	0.0	0.0	0.0
032	8/14/2018	09:00:53	0.0	0.0	0.0	0.0
033	8/14/2018	09:01:53	0.0	0.0	0.0	0.0
034	8/14/2018	09:02:53	0.0	0.0	0.0	0.0
035	8/14/2018	09:03:53	0.0	0.0	0.0	0.0
036	8/14/2018	09:04:53	0.0	0.0	0.0	0.0
037	8/14/2018	09:05:53	0.0	0.0	0.0	0.0
038	8/14/2018	09:06:53	0.0	0.0	0.0	0.0
039	8/14/2018	09:07:53	0.0	0.0	0.0	0.0
040	8/14/2018	09:08:53	0.0	0.0	0.0	0.0
041	8/14/2018	09:09:53	0.0	0.0	0.0	0.0
042	8/14/2018	09:10:53	0.0	0.0	0.0	0.0
043	8/14/2018	09:11:53	0.0	0.0	0.0	0.0
044	8/14/2018	09:12:53	0.0	0.0	0.0	0.0
045	8/14/2018	09:13:53	0.0	0.0	0.0	0.0
046	8/14/2018	09:14:53	0.0	0.0	0.0	0.0
047	8/14/2018	09:15:53	0.0	0.0	0.0	0.0
048	8/14/2018	09:16:53	0.0	0.0	0.0	0.0
049	8/14/2018	09:17:53	0.0	0.0	0.0	0.0
050	8/14/2018	09:18:53	0.0	0.0	0.0	0.0
051	8/14/2018	09:19:53	0.0	0.0	0.0	0.0
052	8/14/2018	09:20:53	0.0	0.0	0.0	0.0
053	8/14/2018	09:21:53	0.0	0.0	0.0	0.0
054	8/14/2018	09:22:53	0.0	0.0	0.0	0.0
055	8/14/2018	09:23:53	0.0	0.0	0.0	0.0
056	8/14/2018	09:24:53	0.0	0.0	0.0	0.0
057	8/14/2018	09:25:53	0.0	0.0	0.0	0.0
058	8/14/2018	09:26:53	0.0	0.0	0.0	0.0
059	8/14/2018	09:27:53	0.0	0.0	0.0	0.0
060	8/14/2018	09:28:53	0.0	0.0	0.0	0.0
061	8/14/2018	09:29:53	0.0	0.0	0.0	0.0
062	8/14/2018	09:30:53	0.0	0.0	0.0	0.0
063	8/14/2018	09:31:53	0.0	0.0	0.0	0.0
064	8/14/2018	09:32:53	0.0	0.0	0.0	0.0
065	8/14/2018	09:33:53	0.0	0.0	0.0	0.0
066	8/14/2018	09:34:53	0.0	0.0	0.0	0.0
067	8/14/2018	09:35:53	0.0	0.0	0.0	0.0
068	8/14/2018	09:36:53	0.0	0.0	0.0	0.0

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069	8/14/2018	09:37:53	0.0	0.0	0.0	0.0
070	8/14/2018	09:38:53	0.0	0.0	0.0	0.0
071	8/14/2018	09:39:53	0.0	0.0	0.0	0.0
072	8/14/2018	09:40:53	0.0	0.0	0.0	0.0
073	8/14/2018	09:41:53	0.0	0.0	0.0	0.0
074	8/14/2018	09:42:53	0.0	0.0	0.0	0.0
075	8/14/2018	09:43:53	0.0	0.0	0.0	0.0
076	8/14/2018	09:44:53	0.0	0.0	0.0	0.0
077	8/14/2018	09:45:53	0.0	0.0	0.0	0.0
078	8/14/2018	09:46:53	0.0	0.0	0.0	0.0
079	8/14/2018	09:47:53	0.0	0.0	0.0	0.0
080	8/14/2018	09:48:53	0.0	0.0	0.0	0.0
081	8/14/2018	09:49:53	0.0	0.0	0.0	0.0
082	8/14/2018	09:50:53	0.0	0.0	0.0	0.0
083	8/14/2018	09:51:53	0.0	0.0	0.0	0.0
084	8/14/2018	09:52:53	0.0	0.0	0.0	0.0
085	8/14/2018	09:53:53	0.0	0.0	0.0	0.0
086	8/14/2018	09:54:53	0.0	0.0	0.0	0.0
087	8/14/2018	09:55:53	0.0	0.0	0.0	0.0
088	8/14/2018	09:56:53	0.0	0.0	0.0	0.0
089	8/14/2018	09:57:53	0.0	0.0	0.0	0.0
090	8/14/2018	09:58:53	0.0	0.0	0.0	0.0
091	8/14/2018	09:59:53	0.0	0.0	0.0	0.0
092	8/14/2018	10:00:53	0.0	0.0	0.0	0.0
093	8/14/2018	10:01:53	0.0	0.0	0.0	0.0
094	8/14/2018	10:02:53	0.0	0.0	0.0	0.0
095	8/14/2018	10:03:53	0.0	0.0	0.0	0.0
096	8/14/2018	10:04:53	0.0	0.0	0.0	0.0
097	8/14/2018	10:05:53	0.0	0.0	0.0	0.0
098	8/14/2018	10:06:53	0.0	0.0	0.0	0.0
099	8/14/2018	10:07:53	0.0	0.0	0.0	0.0
100	8/14/2018	10:08:53	0.0	0.0	0.0	0.0
101	8/14/2018	10:09:53	0.0	0.0	0.0	0.0
102	8/14/2018	10:10:53	0.0	0.0	0.0	0.0
103	8/14/2018	10:11:53	0.0	0.0	0.0	0.0
104	8/14/2018	10:12:53	0.0	0.0	0.0	0.0
105	8/14/2018	10:13:53	0.0	0.0	0.0	0.0
106	8/14/2018	10:14:53	0.0	0.0	0.0	0.0
107	8/14/2018	10:15:53	0.0	0.0	0.0	0.0
108	8/14/2018	10:16:53	0.0	0.0	0.0	0.0
109	8/14/2018	10:17:53	0.0	0.0	0.0	0.0
110	8/14/2018	10:18:53	0.0	0.0	0.0	0.0
111	8/14/2018	10:19:53	0.0	0.0	0.0	0.0
112	8/14/2018	10:20:53	0.0	0.0	0.0	0.0
113	8/14/2018	10:21:53	0.0	0.0	0.0	0.0
114	8/14/2018	10:22:53	0.0	0.0	0.0	0.0
115	8/14/2018	10:23:53	0.0	0.0	0.0	0.0
116	8/14/2018	10:24:53	0.0	0.0	0.0	0.0

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117	8/14/2018	10:25:53	0.0	0.0	0.0	0.0
118	8/14/2018	10:26:53	0.0	0.0	0.0	0.0
119	8/14/2018	10:27:53	0.0	0.0	0.0	0.0
120	8/14/2018	10:28:53	0.0	0.0	0.0	0.0
121	8/14/2018	10:29:53	0.0	0.0	0.0	0.0
122	8/14/2018	10:30:53	0.0	0.0	0.0	0.0
123	8/14/2018	10:31:53	0.0	0.0	0.0	0.0
124	8/14/2018	10:32:53	0.0	0.0	0.0	0.0
125	8/14/2018	10:33:53	0.0	0.0	0.0	0.0
126	8/14/2018	10:34:53	0.0	0.0	0.0	0.0
127	8/14/2018	10:35:53	0.0	0.0	0.0	0.0
128	8/14/2018	10:36:53	0.0	0.0	0.0	0.0
129	8/14/2018	10:37:53	0.0	0.0	0.0	0.0
130	8/14/2018	10:38:53	0.0	0.0	0.0	0.0
131	8/14/2018	10:39:53	0.0	0.0	0.0	0.0
132	8/14/2018	10:40:53	0.0	0.0	0.0	0.0
133	8/14/2018	10:41:53	0.0	0.0	0.0	0.0
134	8/14/2018	10:42:53	0.0	0.0	0.0	0.0
135	8/14/2018	10:43:53	0.0	0.0	0.0	0.0
136	8/14/2018	10:44:53	0.0	0.0	0.0	0.0
137	8/14/2018	10:45:53	0.0	0.0	0.0	0.0
138	8/14/2018	10:46:53	0.0	0.0	0.0	0.0
139	8/14/2018	10:47:53	0.0	0.0	0.0	0.0
140	8/14/2018	10:48:53	0.0	0.0	0.0	0.0
141	8/14/2018	10:49:53	0.0	0.0	0.0	0.0
142	8/14/2018	10:50:53	0.0	0.0	0.0	0.0
143	8/14/2018	10:51:53	0.0	0.0	0.0	0.0
144	8/14/2018	10:52:53	0.0	0.0	0.0	0.0
145	8/14/2018	10:53:53	0.0	0.0	0.0	0.0
146	8/14/2018	10:54:53	0.0	0.0	0.0	0.0
147	8/14/2018	10:55:53	0.0	0.0	0.0	0.0
148	8/14/2018	10:56:53	0.0	0.0	0.0	0.0
149	8/14/2018	10:57:53	0.0	0.0	0.0	0.0
150	8/14/2018	10:58:53	0.0	0.0	0.0	0.0
151	8/14/2018	10:59:53	0.0	0.0	0.0	0.0
152	8/14/2018	11:00:53	0.0	0.0	0.0	0.0
153	8/14/2018	11:01:53	0.0	0.0	0.0	0.0
154	8/14/2018	11:02:53	0.0	0.0	0.0	0.0
155	8/14/2018	11:03:53	0.0	0.0	0.0	0.0
156	8/14/2018	11:04:53	0.0	0.0	0.0	0.0
157	8/14/2018	11:05:53	0.0	0.0	0.0	0.0
158	8/14/2018	11:06:53	0.0	0.0	0.0	0.0
159	8/14/2018	11:07:53	0.0	0.0	0.0	0.0
160	8/14/2018	11:08:53	0.0	0.0	0.0	0.0
161	8/14/2018	11:09:53	0.0	0.0	0.0	0.0
162	8/14/2018	11:10:53	0.0	0.0	0.0	0.0
163	8/14/2018	11:11:53	0.0	0.0	0.0	0.0
164	8/14/2018	11:12:53	0.0	0.0	0.0	0.0

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165	8/14/2018	11:13:53	0.0	0.0	0.0	0.0
166	8/14/2018	11:14:53	0.0	0.0	0.0	0.0
167	8/14/2018	11:15:53	0.0	0.0	0.0	0.0
168	8/14/2018	11:16:53	0.0	0.0	0.0	0.0
169	8/14/2018	11:17:53	0.0	0.0	0.0	0.0
170	8/14/2018	11:18:53	0.0	0.0	0.0	0.0
171	8/14/2018	11:19:53	0.0	0.0	0.0	0.0
172	8/14/2018	11:20:53	0.0	0.0	0.0	0.0
173	8/14/2018	11:21:53	0.0	0.0	0.0	0.0
174	8/14/2018	11:22:53	0.0	0.0	0.0	0.0
175	8/14/2018	11:23:53	0.0	0.0	0.0	0.0
176	8/14/2018	11:24:53	0.0	0.0	0.0	0.0
177	8/14/2018	11:25:53	0.0	0.0	0.0	0.0
178	8/14/2018	11:26:53	0.0	0.0	0.0	0.0
179	8/14/2018	11:27:53	0.0	0.0	0.0	0.0
180	8/14/2018	11:28:53	0.0	0.0	0.0	0.0
181	8/14/2018	11:29:53	0.0	0.0	0.0	0.0
182	8/14/2018	11:30:53	0.0	0.0	0.0	0.0
183	8/14/2018	11:31:53	0.0	0.0	0.0	0.0
184	8/14/2018	11:32:53	0.0	0.0	0.0	0.0
185	8/14/2018	11:33:53	0.0	0.0	0.0	0.0
186	8/14/2018	11:34:53	0.0	0.0	0.0	0.0
187	8/14/2018	11:35:53	0.0	0.0	0.0	0.0
188	8/14/2018	11:36:53	0.0	0.0	0.0	0.0
189	8/14/2018	11:37:53	0.0	0.0	0.0	0.0
190	8/14/2018	11:38:53	0.0	0.0	0.0	0.0
191	8/14/2018	11:39:53	0.0	0.0	0.0	0.0
192	8/14/2018	11:40:53	0.0	0.0	0.0	0.0
193	8/14/2018	11:41:53	0.0	0.0	0.0	0.0
194	8/14/2018	11:42:53	0.0	0.0	0.0	0.0
195	8/14/2018	11:43:53	0.0	0.0	0.0	0.0
196	8/14/2018	11:44:53	0.0	0.0	0.0	0.0
197	8/14/2018	11:45:53	0.0	0.0	0.0	0.0
198	8/14/2018	11:46:53	0.0	0.0	0.0	0.0
199	8/14/2018	11:47:53	0.0	0.0	0.0	0.0
200	8/14/2018	11:48:53	0.0	0.0	0.0	0.0
201	8/14/2018	11:49:53	0.0	0.0	0.0	0.0
202	8/14/2018	11:50:53	0.0	0.0	0.0	0.0
203	8/14/2018	11:51:53	0.0	0.0	0.0	0.0
204	8/14/2018	11:52:53	0.0	0.0	0.0	0.0
205	8/14/2018	11:53:53	0.0	0.0	0.0	0.0
206	8/14/2018	11:54:53	0.0	0.0	0.0	0.0
207	8/14/2018	11:55:53	0.0	0.0	0.0	0.0
208	8/14/2018	11:56:53	0.0	0.0	0.0	0.0
209	8/14/2018	11:57:53	0.0	0.0	0.0	0.0
210	8/14/2018	11:58:53	0.0	0.0	0.0	0.0
211	8/14/2018	11:59:53	0.0	0.0	0.0	0.0
212	8/14/2018	12:00:53	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

213	8/14/2018	12:01:53	0.0	0.0	0.0	0.0
214	8/14/2018	12:02:53	0.0	0.0	0.0	0.0
215	8/14/2018	12:03:53	0.0	0.0	0.0	0.0
216	8/14/2018	12:04:53	0.0	0.0	0.0	0.0
217	8/14/2018	12:05:53	0.0	0.0	0.0	0.0
218	8/14/2018	12:06:53	0.0	0.0	0.0	0.0
219	8/14/2018	12:07:53	0.0	0.0	0.0	0.0
220	8/14/2018	12:08:53	0.0	0.0	0.0	0.0
221	8/14/2018	12:09:53	0.0	0.0	0.0	0.0
222	8/14/2018	12:10:53	0.0	0.0	0.0	0.0
223	8/14/2018	12:11:53	0.0	0.0	0.0	0.0
224	8/14/2018	12:12:53	0.0	0.0	0.0	0.0
225	8/14/2018	12:13:53	0.0	0.0	0.0	0.0
226	8/14/2018	12:14:53	0.0	0.0	0.0	0.0
227	8/14/2018	12:15:53	0.0	0.0	0.0	0.0
228	8/14/2018	12:16:53	0.0	0.0	0.0	0.0
229	8/14/2018	12:17:53	0.0	0.0	0.0	0.0
230	8/14/2018	12:18:53	0.0	0.0	0.0	0.0
231	8/14/2018	12:19:53	0.0	0.0	0.0	0.0
232	8/14/2018	12:20:53	0.0	0.0	0.0	0.0
233	8/14/2018	12:21:53	0.0	0.0	0.0	0.0
234	8/14/2018	12:22:53	0.0	0.0	0.0	0.0
235	8/14/2018	12:23:53	0.0	0.0	0.0	0.0
236	8/14/2018	12:24:53	0.0	0.0	0.0	0.0
237	8/14/2018	12:25:53	0.0	0.0	0.0	0.0
238	8/14/2018	12:26:53	0.0	0.0	0.0	0.0
239	8/14/2018	12:27:53	0.0	0.0	0.0	0.0
240	8/14/2018	12:28:53	0.0	0.0	0.0	0.0
241	8/14/2018	12:29:53	0.0	0.0	0.0	0.0
242	8/14/2018	12:30:53	0.0	0.0	0.0	0.0
243	8/14/2018	12:31:53	0.0	0.0	0.0	0.0
244	8/14/2018	12:32:53	0.0	0.0	0.0	0.0
245	8/14/2018	12:33:53	0.0	0.0	0.0	0.0
246	8/14/2018	12:34:53	0.0	0.0	0.0	0.0
247	8/14/2018	12:35:53	0.0	0.0	0.0	0.0
248	8/14/2018	12:36:53	0.0	0.0	0.0	0.0
249	8/14/2018	12:37:53	0.0	0.0	0.0	0.0
250	8/14/2018	12:38:53	0.0	0.0	0.0	0.0
251	8/14/2018	12:39:53	0.0	0.0	0.0	0.0
252	8/14/2018	12:40:53	0.0	0.0	0.0	0.0
253	8/14/2018	12:41:53	0.0	0.0	0.0	0.0
254	8/14/2018	12:42:53	0.0	0.0	0.0	0.0
255	8/14/2018	12:43:53	0.0	0.0	0.0	0.0
256	8/14/2018	12:44:53	0.0	0.0	0.0	0.0
257	8/14/2018	12:45:53	0.0	0.0	0.0	0.0
258	8/14/2018	12:46:53	0.0	0.0	0.0	0.0
259	8/14/2018	12:47:53	0.0	0.0	0.0	0.0
260	8/14/2018	12:48:53	0.0	0.0	0.0	0.0

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261	8/14/2018	12:49:53	0.0	0.0	0.0	0.0
262	8/14/2018	12:50:53	0.0	0.0	0.0	0.0
263	8/14/2018	12:51:53	0.0	0.0	0.0	0.0
264	8/14/2018	12:52:53	0.0	0.0	0.0	0.0
265	8/14/2018	12:53:53	0.0	0.0	0.0	0.0
266	8/14/2018	12:54:53	0.0	0.0	0.0	0.0
267	8/14/2018	12:55:53	0.0	0.0	0.0	0.0
268	8/14/2018	12:56:53	0.0	0.0	0.0	0.0
269	8/14/2018	12:57:53	0.0	0.0	0.0	0.0
270	8/14/2018	12:58:53	0.0	0.0	0.0	0.0
271	8/14/2018	12:59:53	0.0	0.0	0.0	0.0
272	8/14/2018	13:00:53	0.0	0.0	0.0	0.0
273	8/14/2018	13:01:53	0.0	0.0	0.0	0.0
274	8/14/2018	13:02:53	0.0	0.0	0.0	0.0
275	8/14/2018	13:03:53	0.0	0.0	0.0	0.0
276	8/14/2018	13:04:53	0.0	0.0	0.0	0.0
277	8/14/2018	13:05:53	0.0	0.0	0.0	0.0
278	8/14/2018	13:06:53	0.0	0.0	0.0	0.0
279	8/14/2018	13:07:53	0.0	0.0	0.0	0.0
280	8/14/2018	13:08:53	0.0	0.0	0.0	0.0
281	8/14/2018	13:09:53	0.0	0.0	0.0	0.0
282	8/14/2018	13:10:53	0.0	0.0	0.0	0.0
283	8/14/2018	13:11:53	0.0	0.0	0.0	0.0
284	8/14/2018	13:12:53	0.0	0.0	0.0	0.0
285	8/14/2018	13:13:53	0.0	0.0	0.0	0.0
286	8/14/2018	13:14:53	0.0	0.0	0.0	0.0
287	8/14/2018	13:15:53	0.0	0.0	0.0	0.0
288	8/14/2018	13:16:53	0.0	0.0	0.0	0.0
289	8/14/2018	13:17:53	0.0	0.0	0.0	0.0
290	8/14/2018	13:18:53	0.0	0.0	0.0	0.0
291	8/14/2018	13:19:53	0.0	0.0	0.0	0.0
292	8/14/2018	13:20:53	0.0	0.0	0.0	0.0
293	8/14/2018	13:21:53	0.0	0.0	0.0	0.0
294	8/14/2018	13:22:53	0.0	0.0	0.0	0.0
295	8/14/2018	13:23:53	0.0	0.0	0.0	0.0
296	8/14/2018	13:24:53	0.0	0.0	0.0	0.0
297	8/14/2018	13:25:53	0.0	0.0	0.0	0.0
298	8/14/2018	13:26:53	0.0	0.0	0.0	0.0
299	8/14/2018	13:27:53	0.0	0.0	0.0	0.0
300	8/14/2018	13:28:53	0.0	0.0	0.0	0.0
301	8/14/2018	13:29:53	0.0	0.0	0.0	0.0
302	8/14/2018	13:30:53	0.0	0.0	0.0	0.0
303	8/14/2018	13:31:53	0.0	0.0	0.0	0.0
304	8/14/2018	13:32:53	0.0	0.0	0.0	0.0
305	8/14/2018	13:33:53	0.0	0.0	0.0	0.0
306	8/14/2018	13:34:53	0.0	0.0	0.0	0.0
307	8/14/2018	13:35:53	0.0	0.0	0.0	0.0
308	8/14/2018	13:36:53	0.0	0.0	0.0	0.0

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309	8/14/2018	13:37:53	0.0	0.0	0.0	0.0
310	8/14/2018	13:38:53	0.0	0.0	0.0	0.0
311	8/14/2018	13:39:53	0.0	0.0	0.0	0.0
312	8/14/2018	13:40:53	0.0	0.0	0.0	0.0
313	8/14/2018	13:41:53	0.0	0.0	0.0	0.0
314	8/14/2018	13:42:53	0.0	0.0	0.0	0.0
315	8/14/2018	13:43:53	0.0	0.0	0.0	0.0
316	8/14/2018	13:44:53	0.0	0.0	0.0	0.0
317	8/14/2018	13:45:53	0.0	0.0	0.0	0.0
318	8/14/2018	13:46:53	0.0	0.0	0.0	0.0
319	8/14/2018	13:47:53	0.0	0.0	0.0	0.0
320	8/14/2018	13:48:53	0.0	0.0	0.0	0.0
321	8/14/2018	13:49:53	0.0	0.0	0.0	0.0
322	8/14/2018	13:50:53	0.0	0.0	0.0	0.0
323	8/14/2018	13:51:53	0.0	0.0	0.0	0.0
324	8/14/2018	13:52:53	0.0	0.0	0.0	0.0
325	8/14/2018	13:53:53	0.0	0.0	0.0	0.0
326	8/14/2018	13:54:53	0.0	0.0	0.0	0.0
327	8/14/2018	13:55:53	0.0	0.0	0.0	0.0
328	8/14/2018	13:56:53	0.0	0.0	0.0	0.0
329	8/14/2018	13:57:53	0.0	0.0	0.0	0.0
330	8/14/2018	13:58:53	0.0	0.0	0.0	0.0
331	8/14/2018	13:59:53	0.0	0.0	0.0	0.0
332	8/14/2018	14:00:53	0.0	0.0	0.0	0.0
333	8/14/2018	14:01:53	0.0	0.0	0.0	0.0
334	8/14/2018	14:02:53	0.0	0.0	0.0	0.0
335	8/14/2018	14:03:53	0.0	0.0	0.0	0.0
336	8/14/2018	14:04:53	0.0	0.0	0.0	0.0
337	8/14/2018	14:05:53	0.0	0.0	0.0	0.0
338	8/14/2018	14:06:53	0.0	0.0	0.0	0.0
339	8/14/2018	14:07:53	0.0	0.0	0.0	0.0
340	8/14/2018	14:08:53	0.0	0.0	0.0	0.0
341	8/14/2018	14:09:53	0.0	0.0	0.0	0.0
342	8/14/2018	14:10:53	0.0	0.0	0.0	0.0
343	8/14/2018	14:11:53	0.0	0.0	0.0	0.0
344	8/14/2018	14:12:53	0.0	0.0	0.0	0.0
345	8/14/2018	14:13:53	0.0	0.0	0.0	0.0
346	8/14/2018	14:14:53	0.0	0.0	0.0	0.0
347	8/14/2018	14:15:53	0.0	0.0	0.0	0.0
348	8/14/2018	14:16:53	0.0	0.0	0.0	0.0
349	8/14/2018	14:17:53	0.0	0.0	0.0	0.0
350	8/14/2018	14:18:53	0.0	0.0	0.0	0.0
351	8/14/2018	14:19:53	0.0	0.0	0.0	0.0
352	8/14/2018	14:20:53	0.0	0.0	0.0	0.0
353	8/14/2018	14:21:53	0.0	0.0	0.0	0.0
354	8/14/2018	14:22:53	0.0	0.0	0.0	0.0
355	8/14/2018	14:23:53	0.0	0.0	0.0	0.0
356	8/14/2018	14:24:53	0.0	0.0	0.0	0.0

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357	8/14/2018	14:25:53	0.0	0.0	0.0	0.0
358	8/14/2018	14:26:53	0.0	0.0	0.0	0.0
359	8/14/2018	14:27:53	0.0	0.0	0.0	0.0
360	8/14/2018	14:28:53	0.0	0.0	0.0	0.0
361	8/14/2018	14:29:53	0.0	0.0	0.0	0.0
362	8/14/2018	14:30:53	0.0	0.0	0.0	0.0
363	8/14/2018	14:31:53	0.0	0.0	0.0	0.0
364	8/14/2018	14:32:53	0.0	0.0	0.0	0.0
365	8/14/2018	14:33:53	0.0	0.0	0.0	0.0
366	8/14/2018	14:34:53	0.0	0.0	0.0	0.0
367	8/14/2018	14:35:53	0.0	0.0	0.0	0.0
368	8/14/2018	14:36:53	0.0	0.0	0.0	0.0
369	8/14/2018	14:37:53	0.0	0.0	0.0	0.0
370	8/14/2018	14:38:53	0.0	0.0	0.0	0.0
371	8/14/2018	14:39:53	0.0	0.0	0.0	0.0
372	8/14/2018	14:40:53	0.0	0.0	0.0	0.0
373	8/14/2018	14:41:53	0.0	0.0	0.0	0.0
374	8/14/2018	14:42:53	0.0	0.0	0.0	0.0
375	8/14/2018	14:43:53	0.0	0.0	0.0	0.0
376	8/14/2018	14:44:53	0.0	0.0	0.0	0.0
377	8/14/2018	14:45:53	0.0	0.0	0.0	0.0
378	8/14/2018	14:46:53	0.0	0.0	0.0	0.0
379	8/14/2018	14:47:53	0.0	0.0	0.0	0.0
380	8/14/2018	14:48:53	0.0	0.0	0.0	0.0
381	8/14/2018	14:49:53	0.0	0.0	0.0	0.0
382	8/14/2018	14:50:53	0.0	0.0	0.0	0.0
383	8/14/2018	14:51:53	0.0	0.0	0.0	0.0
384	8/14/2018	14:52:53	0.0	0.0	0.0	0.0
385	8/14/2018	14:53:53	0.0	0.0	0.0	0.0
386	8/14/2018	14:54:53	0.0	0.0	0.0	0.0
387	8/14/2018	14:55:53	0.0	0.0	0.0	0.0
388	8/14/2018	14:56:53	0.0	0.0	0.0	0.0
389	8/14/2018	14:57:53	0.0	0.0	0.0	0.0
390	8/14/2018	14:58:53	0.0	0.0	0.0	0.0
391	8/14/2018	14:59:53	0.0	0.0	0.0	0.0
392	8/14/2018	15:00:53	0.0	0.0	0.0	0.0
393	8/14/2018	15:01:53	0.0	0.0	0.0	0.0
394	8/14/2018	15:02:53	0.0	0.0	0.0	0.0
395	8/14/2018	15:03:53	0.0	0.0	0.0	0.0
396	8/14/2018	15:04:53	0.0	0.0	0.0	0.0
397	8/14/2018	15:05:53	0.0	0.0	0.0	0.0
398	8/14/2018	15:06:53	0.0	0.0	0.0	0.0
399	8/14/2018	15:07:53	0.0	0.0	0.0	0.0
400	8/14/2018	15:08:53	0.0	0.0	0.0	0.0
401	8/14/2018	15:09:53	0.0	0.0	0.0	0.0
402	8/14/2018	15:10:53	0.0	0.0	0.0	0.0
403	8/14/2018	15:11:53	0.0	0.0	0.0	0.0
404	8/14/2018	15:12:53	0.0	0.0	0.0	0.0

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405	8/14/2018	15:13:53	0.0	0.0	0.0	0.0
406	8/14/2018	15:14:53	0.0	0.0	0.0	0.0
407	8/14/2018	15:15:53	0.0	0.0	0.0	0.0
408	8/14/2018	15:16:53	0.0	0.0	0.0	0.0
409	8/14/2018	15:17:53	0.0	0.0	0.0	0.0
410	8/14/2018	15:18:53	0.0	0.0	0.0	0.0
411	8/14/2018	15:19:53	0.0	0.0	0.0	0.0
412	8/14/2018	15:20:53	0.0	0.0	0.0	0.0
413	8/14/2018	15:21:53	0.0	0.0	0.0	0.0
414	8/14/2018	15:22:53	0.0	0.0	0.0	0.0
415	8/14/2018	15:23:53	0.0	0.0	0.0	0.0
416	8/14/2018	15:24:53	0.0	0.0	0.0	0.0
417	8/14/2018	15:25:53	0.0	0.0	0.0	0.0
418	8/14/2018	15:26:53	0.0	0.0	0.0	0.0
419	8/14/2018	15:27:53	0.0	0.0	0.0	0.0
420	8/14/2018	15:28:53	0.0	0.0	0.0	0.0
421	8/14/2018	15:29:53	0.0	0.0	0.0	0.0
422	8/14/2018	15:30:53	0.0	0.0	0.0	0.0
423	8/14/2018	15:31:53	0.0	0.0	0.0	0.0
424	8/14/2018	15:32:53	0.0	0.0	0.0	0.0
425	8/14/2018	15:33:53	0.0	0.0	0.0	0.0
426	8/14/2018	15:34:53	0.0	0.0	0.0	0.0
427	8/14/2018	15:35:53	0.0	0.0	0.0	0.0
428	8/14/2018	15:36:53	0.0	0.0	0.0	0.0
429	8/14/2018	15:37:53	0.0	0.0	0.0	0.0
430	8/14/2018	15:38:53	0.0	0.0	0.0	0.0
431	8/14/2018	15:39:53	0.0	0.0	0.0	0.0
432	8/14/2018	15:40:53	0.0	0.0	0.0	0.0
433	8/14/2018	15:41:53	0.0	0.0	0.0	0.0
434	8/14/2018	15:42:53	0.0	0.0	0.0	0.0
435	8/14/2018	15:43:53	0.0	0.0	0.0	0.0
Peak		0.0 0.0	0.0	0.0		
Min		0.0 0.0	0.0	0.0		
Average		0.0 0.0	0.0	0.0		

TWA/STEL

Index	Date/Time	PID(ppm) (TWA)	PID(ppm) (STEL)
001	8/14/2018 08:29:53	0.0	---
002	8/14/2018 08:30:53	0.0	---
003	8/14/2018 08:31:53	0.0	---
004	8/14/2018 08:32:53	0.0	---
005	8/14/2018 08:33:53	0.0	---
006	8/14/2018 08:34:53	0.0	---
007	8/14/2018 08:35:53	0.0	---
008	8/14/2018 08:36:53	0.0	---
009	8/14/2018 08:37:53	0.0	---

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010	8/14/2018	08:38:53	0.0	---
011	8/14/2018	08:39:53	0.0	---
012	8/14/2018	08:40:53	0.0	---
013	8/14/2018	08:41:53	0.0	---
014	8/14/2018	08:42:53	0.0	---
015	8/14/2018	08:43:53	0.0	0.0
016	8/14/2018	08:44:53	0.0	0.0
017	8/14/2018	08:45:53	0.0	0.0
018	8/14/2018	08:46:53	0.0	0.0
019	8/14/2018	08:47:53	0.0	0.0
020	8/14/2018	08:48:53	0.0	0.0
021	8/14/2018	08:49:53	0.0	0.0
022	8/14/2018	08:50:53	0.0	0.0
023	8/14/2018	08:51:53	0.0	0.0
024	8/14/2018	08:52:53	0.0	0.0
025	8/14/2018	08:53:53	0.0	0.0
026	8/14/2018	08:54:53	0.0	0.0
027	8/14/2018	08:55:53	0.0	0.0
028	8/14/2018	08:56:53	0.0	0.0
029	8/14/2018	08:57:53	0.0	0.0
030	8/14/2018	08:58:53	0.0	0.0
031	8/14/2018	08:59:53	0.0	0.0
032	8/14/2018	09:00:53	0.0	0.0
033	8/14/2018	09:01:53	0.0	0.0
034	8/14/2018	09:02:53	0.0	0.0
035	8/14/2018	09:03:53	0.0	0.0
036	8/14/2018	09:04:53	0.0	0.0
037	8/14/2018	09:05:53	0.0	0.0
038	8/14/2018	09:06:53	0.0	0.0
039	8/14/2018	09:07:53	0.0	0.0
040	8/14/2018	09:08:53	0.0	0.0
041	8/14/2018	09:09:53	0.0	0.0
042	8/14/2018	09:10:53	0.0	0.0
043	8/14/2018	09:11:53	0.0	0.0
044	8/14/2018	09:12:53	0.0	0.0
045	8/14/2018	09:13:53	0.0	0.0
046	8/14/2018	09:14:53	0.0	0.0
047	8/14/2018	09:15:53	0.0	0.0
048	8/14/2018	09:16:53	0.0	0.0
049	8/14/2018	09:17:53	0.0	0.0
050	8/14/2018	09:18:53	0.0	0.0
051	8/14/2018	09:19:53	0.0	0.0
052	8/14/2018	09:20:53	0.0	0.0
053	8/14/2018	09:21:53	0.0	0.0
054	8/14/2018	09:22:53	0.0	0.0
055	8/14/2018	09:23:53	0.0	0.0
056	8/14/2018	09:24:53	0.0	0.0
057	8/14/2018	09:25:53	0.0	0.0

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058	8/14/2018	09:26:53	0.0	0.0
059	8/14/2018	09:27:53	0.0	0.0
060	8/14/2018	09:28:53	0.0	0.0
061	8/14/2018	09:29:53	0.0	0.0
062	8/14/2018	09:30:53	0.0	0.0
063	8/14/2018	09:31:53	0.0	0.0
064	8/14/2018	09:32:53	0.0	0.0
065	8/14/2018	09:33:53	0.0	0.0
066	8/14/2018	09:34:53	0.0	0.0
067	8/14/2018	09:35:53	0.0	0.0
068	8/14/2018	09:36:53	0.0	0.0
069	8/14/2018	09:37:53	0.0	0.0
070	8/14/2018	09:38:53	0.0	0.0
071	8/14/2018	09:39:53	0.0	0.0
072	8/14/2018	09:40:53	0.0	0.0
073	8/14/2018	09:41:53	0.0	0.0
074	8/14/2018	09:42:53	0.0	0.0
075	8/14/2018	09:43:53	0.0	0.0
076	8/14/2018	09:44:53	0.0	0.0
077	8/14/2018	09:45:53	0.0	0.0
078	8/14/2018	09:46:53	0.0	0.0
079	8/14/2018	09:47:53	0.0	0.0
080	8/14/2018	09:48:53	0.0	0.0
081	8/14/2018	09:49:53	0.0	0.0
082	8/14/2018	09:50:53	0.0	0.0
083	8/14/2018	09:51:53	0.0	0.0
084	8/14/2018	09:52:53	0.0	0.0
085	8/14/2018	09:53:53	0.0	0.0
086	8/14/2018	09:54:53	0.0	0.0
087	8/14/2018	09:55:53	0.0	0.0
088	8/14/2018	09:56:53	0.0	0.0
089	8/14/2018	09:57:53	0.0	0.0
090	8/14/2018	09:58:53	0.0	0.0
091	8/14/2018	09:59:53	0.0	0.0
092	8/14/2018	10:00:53	0.0	0.0
093	8/14/2018	10:01:53	0.0	0.0
094	8/14/2018	10:02:53	0.0	0.0
095	8/14/2018	10:03:53	0.0	0.0
096	8/14/2018	10:04:53	0.0	0.0
097	8/14/2018	10:05:53	0.0	0.0
098	8/14/2018	10:06:53	0.0	0.0
099	8/14/2018	10:07:53	0.0	0.0
100	8/14/2018	10:08:53	0.0	0.0
101	8/14/2018	10:09:53	0.0	0.0
102	8/14/2018	10:10:53	0.0	0.0
103	8/14/2018	10:11:53	0.0	0.0
104	8/14/2018	10:12:53	0.0	0.0
105	8/14/2018	10:13:53	0.0	0.0

106	8/14/2018	10:14:53	0.0	0.0
107	8/14/2018	10:15:53	0.0	0.0
108	8/14/2018	10:16:53	0.0	0.0
109	8/14/2018	10:17:53	0.0	0.0
110	8/14/2018	10:18:53	0.0	0.0
111	8/14/2018	10:19:53	0.0	0.0
112	8/14/2018	10:20:53	0.0	0.0
113	8/14/2018	10:21:53	0.0	0.0
114	8/14/2018	10:22:53	0.0	0.0
115	8/14/2018	10:23:53	0.0	0.0
116	8/14/2018	10:24:53	0.0	0.0
117	8/14/2018	10:25:53	0.0	0.0
118	8/14/2018	10:26:53	0.0	0.0
119	8/14/2018	10:27:53	0.0	0.0
120	8/14/2018	10:28:53	0.0	0.0
121	8/14/2018	10:29:53	0.0	0.0
122	8/14/2018	10:30:53	0.0	0.0
123	8/14/2018	10:31:53	0.0	0.0
124	8/14/2018	10:32:53	0.0	0.0
125	8/14/2018	10:33:53	0.0	0.0
126	8/14/2018	10:34:53	0.0	0.0
127	8/14/2018	10:35:53	0.0	0.0
128	8/14/2018	10:36:53	0.0	0.0
129	8/14/2018	10:37:53	0.0	0.0
130	8/14/2018	10:38:53	0.0	0.0
131	8/14/2018	10:39:53	0.0	0.0
132	8/14/2018	10:40:53	0.0	0.0
133	8/14/2018	10:41:53	0.0	0.0
134	8/14/2018	10:42:53	0.0	0.0
135	8/14/2018	10:43:53	0.0	0.0
136	8/14/2018	10:44:53	0.0	0.0
137	8/14/2018	10:45:53	0.0	0.0
138	8/14/2018	10:46:53	0.0	0.0
139	8/14/2018	10:47:53	0.0	0.0
140	8/14/2018	10:48:53	0.0	0.0
141	8/14/2018	10:49:53	0.0	0.0
142	8/14/2018	10:50:53	0.0	0.0
143	8/14/2018	10:51:53	0.0	0.0
144	8/14/2018	10:52:53	0.0	0.0
145	8/14/2018	10:53:53	0.0	0.0
146	8/14/2018	10:54:53	0.0	0.0
147	8/14/2018	10:55:53	0.0	0.0
148	8/14/2018	10:56:53	0.0	0.0
149	8/14/2018	10:57:53	0.0	0.0
150	8/14/2018	10:58:53	0.0	0.0
151	8/14/2018	10:59:53	0.0	0.0
152	8/14/2018	11:00:53	0.0	0.0
153	8/14/2018	11:01:53	0.0	0.0

PRS_EXPORT_20181119.txt38160

154	8/14/2018	11:02:53	0.0	0.0
155	8/14/2018	11:03:53	0.0	0.0
156	8/14/2018	11:04:53	0.0	0.0
157	8/14/2018	11:05:53	0.0	0.0
158	8/14/2018	11:06:53	0.0	0.0
159	8/14/2018	11:07:53	0.0	0.0
160	8/14/2018	11:08:53	0.0	0.0
161	8/14/2018	11:09:53	0.0	0.0
162	8/14/2018	11:10:53	0.0	0.0
163	8/14/2018	11:11:53	0.0	0.0
164	8/14/2018	11:12:53	0.0	0.0
165	8/14/2018	11:13:53	0.0	0.0
166	8/14/2018	11:14:53	0.0	0.0
167	8/14/2018	11:15:53	0.0	0.0
168	8/14/2018	11:16:53	0.0	0.0
169	8/14/2018	11:17:53	0.0	0.0
170	8/14/2018	11:18:53	0.0	0.0
171	8/14/2018	11:19:53	0.0	0.0
172	8/14/2018	11:20:53	0.0	0.0
173	8/14/2018	11:21:53	0.0	0.0
174	8/14/2018	11:22:53	0.0	0.0
175	8/14/2018	11:23:53	0.0	0.0
176	8/14/2018	11:24:53	0.0	0.0
177	8/14/2018	11:25:53	0.0	0.0
178	8/14/2018	11:26:53	0.0	0.0
179	8/14/2018	11:27:53	0.0	0.0
180	8/14/2018	11:28:53	0.0	0.0
181	8/14/2018	11:29:53	0.0	0.0
182	8/14/2018	11:30:53	0.0	0.0
183	8/14/2018	11:31:53	0.0	0.0
184	8/14/2018	11:32:53	0.0	0.0
185	8/14/2018	11:33:53	0.0	0.0
186	8/14/2018	11:34:53	0.0	0.0
187	8/14/2018	11:35:53	0.0	0.0
188	8/14/2018	11:36:53	0.0	0.0
189	8/14/2018	11:37:53	0.0	0.0
190	8/14/2018	11:38:53	0.0	0.0
191	8/14/2018	11:39:53	0.0	0.0
192	8/14/2018	11:40:53	0.0	0.0
193	8/14/2018	11:41:53	0.0	0.0
194	8/14/2018	11:42:53	0.0	0.0
195	8/14/2018	11:43:53	0.0	0.0
196	8/14/2018	11:44:53	0.0	0.0
197	8/14/2018	11:45:53	0.0	0.0
198	8/14/2018	11:46:53	0.0	0.0
199	8/14/2018	11:47:53	0.0	0.0
200	8/14/2018	11:48:53	0.0	0.0
201	8/14/2018	11:49:53	0.0	0.0

PRS_EXPORT_20181119.txt38160

202	8/14/2018	11:50:53	0.0	0.0
203	8/14/2018	11:51:53	0.0	0.0
204	8/14/2018	11:52:53	0.0	0.0
205	8/14/2018	11:53:53	0.0	0.0
206	8/14/2018	11:54:53	0.0	0.0
207	8/14/2018	11:55:53	0.0	0.0
208	8/14/2018	11:56:53	0.0	0.0
209	8/14/2018	11:57:53	0.0	0.0
210	8/14/2018	11:58:53	0.0	0.0
211	8/14/2018	11:59:53	0.0	0.0
212	8/14/2018	12:00:53	0.0	0.0
213	8/14/2018	12:01:53	0.0	0.0
214	8/14/2018	12:02:53	0.0	0.0
215	8/14/2018	12:03:53	0.0	0.0
216	8/14/2018	12:04:53	0.0	0.0
217	8/14/2018	12:05:53	0.0	0.0
218	8/14/2018	12:06:53	0.0	0.0
219	8/14/2018	12:07:53	0.0	0.0
220	8/14/2018	12:08:53	0.0	0.0
221	8/14/2018	12:09:53	0.0	0.0
222	8/14/2018	12:10:53	0.0	0.0
223	8/14/2018	12:11:53	0.0	0.0
224	8/14/2018	12:12:53	0.0	0.0
225	8/14/2018	12:13:53	0.0	0.0
226	8/14/2018	12:14:53	0.0	0.0
227	8/14/2018	12:15:53	0.0	0.0
228	8/14/2018	12:16:53	0.0	0.0
229	8/14/2018	12:17:53	0.0	0.0
230	8/14/2018	12:18:53	0.0	0.0
231	8/14/2018	12:19:53	0.0	0.0
232	8/14/2018	12:20:53	0.0	0.0
233	8/14/2018	12:21:53	0.0	0.0
234	8/14/2018	12:22:53	0.0	0.0
235	8/14/2018	12:23:53	0.0	0.0
236	8/14/2018	12:24:53	0.0	0.0
237	8/14/2018	12:25:53	0.0	0.0
238	8/14/2018	12:26:53	0.0	0.0
239	8/14/2018	12:27:53	0.0	0.0
240	8/14/2018	12:28:53	0.0	0.0
241	8/14/2018	12:29:53	0.0	0.0
242	8/14/2018	12:30:53	0.0	0.0
243	8/14/2018	12:31:53	0.0	0.0
244	8/14/2018	12:32:53	0.0	0.0
245	8/14/2018	12:33:53	0.0	0.0
246	8/14/2018	12:34:53	0.0	0.0
247	8/14/2018	12:35:53	0.0	0.0
248	8/14/2018	12:36:53	0.0	0.0
249	8/14/2018	12:37:53	0.0	0.0

PRS_EXPORT_20181119.txt38160

250	8/14/2018	12:38:53	0.0	0.0
251	8/14/2018	12:39:53	0.0	0.0
252	8/14/2018	12:40:53	0.0	0.0
253	8/14/2018	12:41:53	0.0	0.0
254	8/14/2018	12:42:53	0.0	0.0
255	8/14/2018	12:43:53	0.0	0.0
256	8/14/2018	12:44:53	0.0	0.0
257	8/14/2018	12:45:53	0.0	0.0
258	8/14/2018	12:46:53	0.0	0.0
259	8/14/2018	12:47:53	0.0	0.0
260	8/14/2018	12:48:53	0.0	0.0
261	8/14/2018	12:49:53	0.0	0.0
262	8/14/2018	12:50:53	0.0	0.0
263	8/14/2018	12:51:53	0.0	0.0
264	8/14/2018	12:52:53	0.0	0.0
265	8/14/2018	12:53:53	0.0	0.0
266	8/14/2018	12:54:53	0.0	0.0
267	8/14/2018	12:55:53	0.0	0.0
268	8/14/2018	12:56:53	0.0	0.0
269	8/14/2018	12:57:53	0.0	0.0
270	8/14/2018	12:58:53	0.0	0.0
271	8/14/2018	12:59:53	0.0	0.0
272	8/14/2018	13:00:53	0.0	0.0
273	8/14/2018	13:01:53	0.0	0.0
274	8/14/2018	13:02:53	0.0	0.0
275	8/14/2018	13:03:53	0.0	0.0
276	8/14/2018	13:04:53	0.0	0.0
277	8/14/2018	13:05:53	0.0	0.0
278	8/14/2018	13:06:53	0.0	0.0
279	8/14/2018	13:07:53	0.0	0.0
280	8/14/2018	13:08:53	0.0	0.0
281	8/14/2018	13:09:53	0.0	0.0
282	8/14/2018	13:10:53	0.0	0.0
283	8/14/2018	13:11:53	0.0	0.0
284	8/14/2018	13:12:53	0.0	0.0
285	8/14/2018	13:13:53	0.0	0.0
286	8/14/2018	13:14:53	0.0	0.0
287	8/14/2018	13:15:53	0.0	0.0
288	8/14/2018	13:16:53	0.0	0.0
289	8/14/2018	13:17:53	0.0	0.0
290	8/14/2018	13:18:53	0.0	0.0
291	8/14/2018	13:19:53	0.0	0.0
292	8/14/2018	13:20:53	0.0	0.0
293	8/14/2018	13:21:53	0.0	0.0
294	8/14/2018	13:22:53	0.0	0.0
295	8/14/2018	13:23:53	0.0	0.0
296	8/14/2018	13:24:53	0.0	0.0
297	8/14/2018	13:25:53	0.0	0.0

PRS_EXPORT_20181119.txt38160

298	8/14/2018	13:26:53	0.0	0.0
299	8/14/2018	13:27:53	0.0	0.0
300	8/14/2018	13:28:53	0.0	0.0
301	8/14/2018	13:29:53	0.0	0.0
302	8/14/2018	13:30:53	0.0	0.0
303	8/14/2018	13:31:53	0.0	0.0
304	8/14/2018	13:32:53	0.0	0.0
305	8/14/2018	13:33:53	0.0	0.0
306	8/14/2018	13:34:53	0.0	0.0
307	8/14/2018	13:35:53	0.0	0.0
308	8/14/2018	13:36:53	0.0	0.0
309	8/14/2018	13:37:53	0.0	0.0
310	8/14/2018	13:38:53	0.0	0.0
311	8/14/2018	13:39:53	0.0	0.0
312	8/14/2018	13:40:53	0.0	0.0
313	8/14/2018	13:41:53	0.0	0.0
314	8/14/2018	13:42:53	0.0	0.0
315	8/14/2018	13:43:53	0.0	0.0
316	8/14/2018	13:44:53	0.0	0.0
317	8/14/2018	13:45:53	0.0	0.0
318	8/14/2018	13:46:53	0.0	0.0
319	8/14/2018	13:47:53	0.0	0.0
320	8/14/2018	13:48:53	0.0	0.0
321	8/14/2018	13:49:53	0.0	0.0
322	8/14/2018	13:50:53	0.0	0.0
323	8/14/2018	13:51:53	0.0	0.0
324	8/14/2018	13:52:53	0.0	0.0
325	8/14/2018	13:53:53	0.0	0.0
326	8/14/2018	13:54:53	0.0	0.0
327	8/14/2018	13:55:53	0.0	0.0
328	8/14/2018	13:56:53	0.0	0.0
329	8/14/2018	13:57:53	0.0	0.0
330	8/14/2018	13:58:53	0.0	0.0
331	8/14/2018	13:59:53	0.0	0.0
332	8/14/2018	14:00:53	0.0	0.0
333	8/14/2018	14:01:53	0.0	0.0
334	8/14/2018	14:02:53	0.0	0.0
335	8/14/2018	14:03:53	0.0	0.0
336	8/14/2018	14:04:53	0.0	0.0
337	8/14/2018	14:05:53	0.0	0.0
338	8/14/2018	14:06:53	0.0	0.0
339	8/14/2018	14:07:53	0.0	0.0
340	8/14/2018	14:08:53	0.0	0.0
341	8/14/2018	14:09:53	0.0	0.0
342	8/14/2018	14:10:53	0.0	0.0
343	8/14/2018	14:11:53	0.0	0.0
344	8/14/2018	14:12:53	0.0	0.0
345	8/14/2018	14:13:53	0.0	0.0

PRS_EXPORT_20181119.txt38160

346	8/14/2018	14:14:53	0.0	0.0
347	8/14/2018	14:15:53	0.0	0.0
348	8/14/2018	14:16:53	0.0	0.0
349	8/14/2018	14:17:53	0.0	0.0
350	8/14/2018	14:18:53	0.0	0.0
351	8/14/2018	14:19:53	0.0	0.0
352	8/14/2018	14:20:53	0.0	0.0
353	8/14/2018	14:21:53	0.0	0.0
354	8/14/2018	14:22:53	0.0	0.0
355	8/14/2018	14:23:53	0.0	0.0
356	8/14/2018	14:24:53	0.0	0.0
357	8/14/2018	14:25:53	0.0	0.0
358	8/14/2018	14:26:53	0.0	0.0
359	8/14/2018	14:27:53	0.0	0.0
360	8/14/2018	14:28:53	0.0	0.0
361	8/14/2018	14:29:53	0.0	0.0
362	8/14/2018	14:30:53	0.0	0.0
363	8/14/2018	14:31:53	0.0	0.0
364	8/14/2018	14:32:53	0.0	0.0
365	8/14/2018	14:33:53	0.0	0.0
366	8/14/2018	14:34:53	0.0	0.0
367	8/14/2018	14:35:53	0.0	0.0
368	8/14/2018	14:36:53	0.0	0.0
369	8/14/2018	14:37:53	0.0	0.0
370	8/14/2018	14:38:53	0.0	0.0
371	8/14/2018	14:39:53	0.0	0.0
372	8/14/2018	14:40:53	0.0	0.0
373	8/14/2018	14:41:53	0.0	0.0
374	8/14/2018	14:42:53	0.0	0.0
375	8/14/2018	14:43:53	0.0	0.0
376	8/14/2018	14:44:53	0.0	0.0
377	8/14/2018	14:45:53	0.0	0.0
378	8/14/2018	14:46:53	0.0	0.0
379	8/14/2018	14:47:53	0.0	0.0
380	8/14/2018	14:48:53	0.0	0.0
381	8/14/2018	14:49:53	0.0	0.0
382	8/14/2018	14:50:53	0.0	0.0
383	8/14/2018	14:51:53	0.0	0.0
384	8/14/2018	14:52:53	0.0	0.0
385	8/14/2018	14:53:53	0.0	0.0
386	8/14/2018	14:54:53	0.0	0.0
387	8/14/2018	14:55:53	0.0	0.0
388	8/14/2018	14:56:53	0.0	0.0
389	8/14/2018	14:57:53	0.0	0.0
390	8/14/2018	14:58:53	0.0	0.0
391	8/14/2018	14:59:53	0.0	0.0
392	8/14/2018	15:00:53	0.0	0.0
393	8/14/2018	15:01:53	0.0	0.0

394	8/14/2018	15:02:53	0.0	0.0
395	8/14/2018	15:03:53	0.0	0.0
396	8/14/2018	15:04:53	0.0	0.0
397	8/14/2018	15:05:53	0.0	0.0
398	8/14/2018	15:06:53	0.0	0.0
399	8/14/2018	15:07:53	0.0	0.0
400	8/14/2018	15:08:53	0.0	0.0
401	8/14/2018	15:09:53	0.0	0.0
402	8/14/2018	15:10:53	0.0	0.0
403	8/14/2018	15:11:53	0.0	0.0
404	8/14/2018	15:12:53	0.0	0.0
405	8/14/2018	15:13:53	0.0	0.0
406	8/14/2018	15:14:53	0.0	0.0
407	8/14/2018	15:15:53	0.0	0.0
408	8/14/2018	15:16:53	0.0	0.0
409	8/14/2018	15:17:53	0.0	0.0
410	8/14/2018	15:18:53	0.0	0.0
411	8/14/2018	15:19:53	0.0	0.0
412	8/14/2018	15:20:53	0.0	0.0
413	8/14/2018	15:21:53	0.0	0.0
414	8/14/2018	15:22:53	0.0	0.0
415	8/14/2018	15:23:53	0.0	0.0
416	8/14/2018	15:24:53	0.0	0.0
417	8/14/2018	15:25:53	0.0	0.0
418	8/14/2018	15:26:53	0.0	0.0
419	8/14/2018	15:27:53	0.0	0.0
420	8/14/2018	15:28:53	0.0	0.0
421	8/14/2018	15:29:53	0.0	0.0
422	8/14/2018	15:30:53	0.0	0.0
423	8/14/2018	15:31:53	0.0	0.0
424	8/14/2018	15:32:53	0.0	0.0
425	8/14/2018	15:33:53	0.0	0.0
426	8/14/2018	15:34:53	0.0	0.0
427	8/14/2018	15:35:53	0.0	0.0
428	8/14/2018	15:36:53	0.0	0.0
429	8/14/2018	15:37:53	0.0	0.0
430	8/14/2018	15:38:53	0.0	0.0
431	8/14/2018	15:39:53	0.0	0.0
432	8/14/2018	15:40:53	0.0	0.0
433	8/14/2018	15:41:53	0.0	0.0
434	8/14/2018	15:42:53	0.0	0.0
435	8/14/2018	15:43:53	0.0	0.0

=====
18/08/15 08:44

Summary

Unit Name MiniRAE 3000(PGM-7320)

Unit SN 592-919975
Unit Firmware Ver V2.14

Running Mode Hygiene Mode
Datalog Mode Manual
Diagnostic Mode No
Stop Reason Power Down

Site ID RAE00000
User ID UW000000

Begin 8/15/2018 08:44:32
End 8/15/2018 17:23:37
Sample Period(s) 60
Number of Records 519

Sensor PID(ppm)
Sensor SN S023030116U2
Measure Type Min; Avg; Max; Real
Span 100.0
Span 2 1000.0
Low Alarm 50.0
High Alarm 100.0
Over Alarm 15000.0
STEL Alarm 25.0
TWA Alarm 10.0
Measurement Gas Isobutylene
Calibration Time 8/15/2018 08:23
Peak 0.0
Min 0.0
Average 0.0

Datalog

Index	Date/Time	PID(ppm) (Min)	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)	PID(ppm)
001	8/15/2018 08:45:32	0.0	0.0	0.0	0.0	0.0
002	8/15/2018 08:46:32	0.0	0.0	0.0	0.0	0.0
003	8/15/2018 08:47:32	0.0	0.0	0.0	0.0	0.0
004	8/15/2018 08:48:32	0.0	0.0	0.0	0.0	0.0
005	8/15/2018 08:49:32	0.0	0.0	0.0	0.0	0.0
006	8/15/2018 08:50:32	0.0	0.0	0.0	0.0	0.0
007	8/15/2018 08:51:32	0.0	0.0	0.0	0.0	0.0
008	8/15/2018 08:52:32	0.0	0.0	0.0	0.0	0.0
009	8/15/2018 08:53:32	0.0	0.0	0.0	0.0	0.0
010	8/15/2018 08:54:32	0.0	0.0	0.0	0.0	0.0
011	8/15/2018 08:55:32	0.0	0.0	0.0	0.0	0.0
012	8/15/2018 08:56:32	0.0	0.0	0.0	0.0	0.0

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013	8/15/2018	08:57:32	0.0	0.0	0.0	0.0
014	8/15/2018	08:58:32	0.0	0.0	0.0	0.0
015	8/15/2018	08:59:32	0.0	0.0	0.0	0.0
016	8/15/2018	09:00:32	0.0	0.0	0.0	0.0
017	8/15/2018	09:01:32	0.0	0.0	0.0	0.0
018	8/15/2018	09:02:32	0.0	0.0	0.0	0.0
019	8/15/2018	09:03:32	0.0	0.0	0.0	0.0
020	8/15/2018	09:04:32	0.0	0.0	0.0	0.0
021	8/15/2018	09:05:32	0.0	0.0	0.0	0.0
022	8/15/2018	09:06:32	0.0	0.0	0.0	0.0
023	8/15/2018	09:07:32	0.0	0.0	0.0	0.0
024	8/15/2018	09:08:32	0.0	0.0	0.0	0.0
025	8/15/2018	09:09:32	0.0	0.0	0.0	0.0
026	8/15/2018	09:10:32	0.0	0.0	0.0	0.0
027	8/15/2018	09:11:32	0.0	0.0	0.0	0.0
028	8/15/2018	09:12:32	0.0	0.0	0.0	0.0
029	8/15/2018	09:13:32	0.0	0.0	0.0	0.0
030	8/15/2018	09:14:32	0.0	0.0	0.0	0.0
031	8/15/2018	09:15:32	0.0	0.0	0.0	0.0
032	8/15/2018	09:16:32	0.0	0.0	0.0	0.0
033	8/15/2018	09:17:32	0.0	0.0	0.0	0.0
034	8/15/2018	09:18:32	0.0	0.0	0.0	0.0
035	8/15/2018	09:19:32	0.0	0.0	0.0	0.0
036	8/15/2018	09:20:32	0.0	0.0	0.0	0.0
037	8/15/2018	09:21:32	0.0	0.0	0.0	0.0
038	8/15/2018	09:22:32	0.0	0.0	0.0	0.0
039	8/15/2018	09:23:32	0.0	0.0	0.0	0.0
040	8/15/2018	09:24:32	0.0	0.0	0.0	0.0
041	8/15/2018	09:25:32	0.0	0.0	0.0	0.0
042	8/15/2018	09:26:32	0.0	0.0	0.0	0.0
043	8/15/2018	09:27:32	0.0	0.0	0.0	0.0
044	8/15/2018	09:28:32	0.0	0.0	0.0	0.0
045	8/15/2018	09:29:32	0.0	0.0	0.0	0.0
046	8/15/2018	09:30:32	0.0	0.0	0.0	0.0
047	8/15/2018	09:31:32	0.0	0.0	0.0	0.0
048	8/15/2018	09:32:32	0.0	0.0	0.0	0.0
049	8/15/2018	09:33:32	0.0	0.0	0.0	0.0
050	8/15/2018	09:34:32	0.0	0.0	0.0	0.0
051	8/15/2018	09:35:32	0.0	0.0	0.0	0.0
052	8/15/2018	09:36:32	0.0	0.0	0.0	0.0
053	8/15/2018	09:37:32	0.0	0.0	0.0	0.0
054	8/15/2018	09:38:32	0.0	0.0	0.0	0.0
055	8/15/2018	09:39:32	0.0	0.0	0.0	0.0
056	8/15/2018	09:40:32	0.0	0.0	0.0	0.0
057	8/15/2018	09:41:32	0.0	0.0	0.0	0.0
058	8/15/2018	09:42:32	0.0	0.0	0.0	0.0
059	8/15/2018	09:43:32	0.0	0.0	0.0	0.0
060	8/15/2018	09:44:32	0.0	0.0	0.0	0.0

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061	8/15/2018	09:45:32	0.0	0.0	0.0	0.0
062	8/15/2018	09:46:32	0.0	0.0	0.0	0.0
063	8/15/2018	09:47:32	0.0	0.0	0.0	0.0
064	8/15/2018	09:48:32	0.0	0.0	0.0	0.0
065	8/15/2018	09:49:32	0.0	0.0	0.0	0.0
066	8/15/2018	09:50:32	0.0	0.0	0.0	0.0
067	8/15/2018	09:51:32	0.0	0.0	0.0	0.0
068	8/15/2018	09:52:32	0.0	0.0	0.0	0.0
069	8/15/2018	09:53:32	0.0	0.0	0.0	0.0
070	8/15/2018	09:54:32	0.0	0.0	0.0	0.0
071	8/15/2018	09:55:32	0.0	0.0	0.0	0.0
072	8/15/2018	09:56:32	0.0	0.0	0.0	0.0
073	8/15/2018	09:57:32	0.0	0.0	0.0	0.0
074	8/15/2018	09:58:32	0.0	0.0	0.0	0.0
075	8/15/2018	09:59:32	0.0	0.0	0.0	0.0
076	8/15/2018	10:00:32	0.0	0.0	0.0	0.0
077	8/15/2018	10:01:32	0.0	0.0	0.0	0.0
078	8/15/2018	10:02:32	0.0	0.0	0.0	0.0
079	8/15/2018	10:03:32	0.0	0.0	0.0	0.0
080	8/15/2018	10:04:32	0.0	0.0	0.0	0.0
081	8/15/2018	10:05:32	0.0	0.0	0.0	0.0
082	8/15/2018	10:06:32	0.0	0.0	0.0	0.0
083	8/15/2018	10:07:32	0.0	0.0	0.0	0.0
084	8/15/2018	10:08:32	0.0	0.0	0.0	0.0
085	8/15/2018	10:09:32	0.0	0.0	0.0	0.0
086	8/15/2018	10:10:32	0.0	0.0	0.0	0.0
087	8/15/2018	10:11:32	0.0	0.0	0.0	0.0
088	8/15/2018	10:12:32	0.0	0.0	0.0	0.0
089	8/15/2018	10:13:32	0.0	0.0	0.0	0.0
090	8/15/2018	10:14:32	0.0	0.0	0.0	0.0
091	8/15/2018	10:15:32	0.0	0.0	0.0	0.0
092	8/15/2018	10:16:32	0.0	0.0	0.0	0.0
093	8/15/2018	10:17:32	0.0	0.0	0.0	0.0
094	8/15/2018	10:18:32	0.0	0.0	0.0	0.0
095	8/15/2018	10:19:32	0.0	0.0	0.0	0.0
096	8/15/2018	10:20:32	0.0	0.0	0.0	0.0
097	8/15/2018	10:21:32	0.0	0.0	0.0	0.0
098	8/15/2018	10:22:32	0.0	0.0	0.0	0.0
099	8/15/2018	10:23:32	0.0	0.0	0.0	0.0
100	8/15/2018	10:24:32	0.0	0.0	0.0	0.0
101	8/15/2018	10:25:32	0.0	0.0	0.0	0.0
102	8/15/2018	10:26:32	0.0	0.0	0.0	0.0
103	8/15/2018	10:27:32	0.0	0.0	0.0	0.0
104	8/15/2018	10:28:32	0.0	0.0	0.0	0.0
105	8/15/2018	10:29:32	0.0	0.0	0.0	0.0
106	8/15/2018	10:30:32	0.0	0.0	0.0	0.0
107	8/15/2018	10:31:32	0.0	0.0	0.0	0.0
108	8/15/2018	10:32:32	0.0	0.0	0.0	0.0

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109	8/15/2018	10:33:32	0.0	0.0	0.0	0.0
110	8/15/2018	10:34:32	0.0	0.0	0.0	0.0
111	8/15/2018	10:35:32	0.0	0.0	0.0	0.0
112	8/15/2018	10:36:32	0.0	0.0	0.0	0.0
113	8/15/2018	10:37:32	0.0	0.0	0.0	0.0
114	8/15/2018	10:38:32	0.0	0.0	0.0	0.0
115	8/15/2018	10:39:32	0.0	0.0	0.0	0.0
116	8/15/2018	10:40:32	0.0	0.0	0.0	0.0
117	8/15/2018	10:41:32	0.0	0.0	0.0	0.0
118	8/15/2018	10:42:32	0.0	0.0	0.0	0.0
119	8/15/2018	10:43:32	0.0	0.0	0.0	0.0
120	8/15/2018	10:44:32	0.0	0.0	0.0	0.0
121	8/15/2018	10:45:32	0.0	0.0	0.0	0.0
122	8/15/2018	10:46:32	0.0	0.0	0.0	0.0
123	8/15/2018	10:47:32	0.0	0.0	0.0	0.0
124	8/15/2018	10:48:32	0.0	0.0	0.0	0.0
125	8/15/2018	10:49:32	0.0	0.0	0.0	0.0
126	8/15/2018	10:50:32	0.0	0.0	0.0	0.0
127	8/15/2018	10:51:32	0.0	0.0	0.0	0.0
128	8/15/2018	10:52:32	0.0	0.0	0.0	0.0
129	8/15/2018	10:53:32	0.0	0.0	0.0	0.0
130	8/15/2018	10:54:32	0.0	0.0	0.0	0.0
131	8/15/2018	10:55:32	0.0	0.0	0.0	0.0
132	8/15/2018	10:56:32	0.0	0.0	0.0	0.0
133	8/15/2018	10:57:32	0.0	0.0	0.0	0.0
134	8/15/2018	10:58:32	0.0	0.0	0.0	0.0
135	8/15/2018	10:59:32	0.0	0.0	0.0	0.0
136	8/15/2018	11:00:32	0.0	0.0	0.0	0.0
137	8/15/2018	11:01:32	0.0	0.0	0.0	0.0
138	8/15/2018	11:02:32	0.0	0.0	0.0	0.0
139	8/15/2018	11:03:32	0.0	0.0	0.0	0.0
140	8/15/2018	11:04:32	0.0	0.0	0.0	0.0
141	8/15/2018	11:05:32	0.0	0.0	0.0	0.0
142	8/15/2018	11:06:32	0.0	0.0	0.0	0.0
143	8/15/2018	11:07:32	0.0	0.0	0.0	0.0
144	8/15/2018	11:08:32	0.0	0.0	0.0	0.0
145	8/15/2018	11:09:32	0.0	0.0	0.0	0.0
146	8/15/2018	11:10:32	0.0	0.0	0.0	0.0
147	8/15/2018	11:11:32	0.0	0.0	0.0	0.0
148	8/15/2018	11:12:32	0.0	0.0	0.0	0.0
149	8/15/2018	11:13:32	0.0	0.0	0.0	0.0
150	8/15/2018	11:14:32	0.0	0.0	0.0	0.0
151	8/15/2018	11:15:32	0.0	0.0	0.0	0.0
152	8/15/2018	11:16:32	0.0	0.0	0.0	0.0
153	8/15/2018	11:17:32	0.0	0.0	0.0	0.0
154	8/15/2018	11:18:32	0.0	0.0	0.0	0.0
155	8/15/2018	11:19:32	0.0	0.0	0.0	0.0
156	8/15/2018	11:20:32	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

157	8/15/2018	11:21:32	0.0	0.0	0.0	0.0
158	8/15/2018	11:22:32	0.0	0.0	0.0	0.0
159	8/15/2018	11:23:32	0.0	0.0	0.0	0.0
160	8/15/2018	11:24:32	0.0	0.0	0.0	0.0
161	8/15/2018	11:25:32	0.0	0.0	0.0	0.0
162	8/15/2018	11:26:32	0.0	0.0	0.0	0.0
163	8/15/2018	11:27:32	0.0	0.0	0.0	0.0
164	8/15/2018	11:28:32	0.0	0.0	0.0	0.0
165	8/15/2018	11:29:32	0.0	0.0	0.0	0.0
166	8/15/2018	11:30:32	0.0	0.0	0.0	0.0
167	8/15/2018	11:31:32	0.0	0.0	0.0	0.0
168	8/15/2018	11:32:32	0.0	0.0	0.0	0.0
169	8/15/2018	11:33:32	0.0	0.0	0.0	0.0
170	8/15/2018	11:34:32	0.0	0.0	0.0	0.0
171	8/15/2018	11:35:32	0.0	0.0	0.0	0.0
172	8/15/2018	11:36:32	0.0	0.0	0.0	0.0
173	8/15/2018	11:37:32	0.0	0.0	0.0	0.0
174	8/15/2018	11:38:32	0.0	0.0	0.0	0.0
175	8/15/2018	11:39:32	0.0	0.0	0.0	0.0
176	8/15/2018	11:40:32	0.0	0.0	0.0	0.0
177	8/15/2018	11:41:32	0.0	0.0	0.0	0.0
178	8/15/2018	11:42:32	0.0	0.0	0.0	0.0
179	8/15/2018	11:43:32	0.0	0.0	0.0	0.0
180	8/15/2018	11:44:32	0.0	0.0	0.0	0.0
181	8/15/2018	11:45:32	0.0	0.0	0.0	0.0
182	8/15/2018	11:46:32	0.0	0.0	0.0	0.0
183	8/15/2018	11:47:32	0.0	0.0	0.0	0.0
184	8/15/2018	11:48:32	0.0	0.0	0.0	0.0
185	8/15/2018	11:49:32	0.0	0.0	0.0	0.0
186	8/15/2018	11:50:32	0.0	0.0	0.0	0.0
187	8/15/2018	11:51:32	0.0	0.0	0.0	0.0
188	8/15/2018	11:52:32	0.0	0.0	0.0	0.0
189	8/15/2018	11:53:32	0.0	0.0	0.0	0.0
190	8/15/2018	11:54:32	0.0	0.0	0.0	0.0
191	8/15/2018	11:55:32	0.0	0.0	0.0	0.0
192	8/15/2018	11:56:32	0.0	0.0	0.0	0.0
193	8/15/2018	11:57:32	0.0	0.0	0.0	0.0
194	8/15/2018	11:58:32	0.0	0.0	0.0	0.0
195	8/15/2018	11:59:32	0.0	0.0	0.0	0.0
196	8/15/2018	12:00:32	0.0	0.0	0.0	0.0
197	8/15/2018	12:01:32	0.0	0.0	0.0	0.0
198	8/15/2018	12:02:32	0.0	0.0	0.0	0.0
199	8/15/2018	12:03:32	0.0	0.0	0.0	0.0
200	8/15/2018	12:04:32	0.0	0.0	0.0	0.0
201	8/15/2018	12:05:32	0.0	0.0	0.0	0.0
202	8/15/2018	12:06:32	0.0	0.0	0.0	0.0
203	8/15/2018	12:07:32	0.0	0.0	0.0	0.0
204	8/15/2018	12:08:32	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

205	8/15/2018	12:09:32	0.0	0.0	0.0	0.0
206	8/15/2018	12:10:32	0.0	0.0	0.0	0.0
207	8/15/2018	12:11:32	0.0	0.0	0.0	0.0
208	8/15/2018	12:12:32	0.0	0.0	0.0	0.0
209	8/15/2018	12:13:32	0.0	0.0	0.0	0.0
210	8/15/2018	12:14:32	0.0	0.0	0.0	0.0
211	8/15/2018	12:15:32	0.0	0.0	0.0	0.0
212	8/15/2018	12:16:32	0.0	0.0	0.0	0.0
213	8/15/2018	12:17:32	0.0	0.0	0.0	0.0
214	8/15/2018	12:18:32	0.0	0.0	0.0	0.0
215	8/15/2018	12:19:32	0.0	0.0	0.0	0.0
216	8/15/2018	12:20:32	0.0	0.0	0.0	0.0
217	8/15/2018	12:21:32	0.0	0.0	0.0	0.0
218	8/15/2018	12:22:32	0.0	0.0	0.0	0.0
219	8/15/2018	12:23:32	0.0	0.0	0.0	0.0
220	8/15/2018	12:24:32	0.0	0.0	0.0	0.0
221	8/15/2018	12:25:32	0.0	0.0	0.0	0.0
222	8/15/2018	12:26:32	0.0	0.0	0.0	0.0
223	8/15/2018	12:27:32	0.0	0.0	0.0	0.0
224	8/15/2018	12:28:32	0.0	0.0	0.0	0.0
225	8/15/2018	12:29:32	0.0	0.0	0.0	0.0
226	8/15/2018	12:30:32	0.0	0.0	0.0	0.0
227	8/15/2018	12:31:32	0.0	0.0	0.0	0.0
228	8/15/2018	12:32:32	0.0	0.0	0.0	0.0
229	8/15/2018	12:33:32	0.0	0.0	0.0	0.0
230	8/15/2018	12:34:32	0.0	0.0	0.0	0.0
231	8/15/2018	12:35:32	0.0	0.0	0.0	0.0
232	8/15/2018	12:36:32	0.0	0.0	0.0	0.0
233	8/15/2018	12:37:32	0.0	0.0	0.0	0.0
234	8/15/2018	12:38:32	0.0	0.0	0.0	0.0
235	8/15/2018	12:39:32	0.0	0.0	0.0	0.0
236	8/15/2018	12:40:32	0.0	0.0	0.0	0.0
237	8/15/2018	12:41:32	0.0	0.0	0.0	0.0
238	8/15/2018	12:42:32	0.0	0.0	0.0	0.0
239	8/15/2018	12:43:32	0.0	0.0	0.0	0.0
240	8/15/2018	12:44:32	0.0	0.0	0.0	0.0
241	8/15/2018	12:45:32	0.0	0.0	0.0	0.0
242	8/15/2018	12:46:32	0.0	0.0	0.0	0.0
243	8/15/2018	12:47:32	0.0	0.0	0.0	0.0
244	8/15/2018	12:48:32	0.0	0.0	0.0	0.0
245	8/15/2018	12:49:32	0.0	0.0	0.0	0.0
246	8/15/2018	12:50:32	0.0	0.0	0.0	0.0
247	8/15/2018	12:51:32	0.0	0.0	0.0	0.0
248	8/15/2018	12:52:32	0.0	0.0	0.0	0.0
249	8/15/2018	12:53:32	0.0	0.0	0.0	0.0
250	8/15/2018	12:54:32	0.0	0.0	0.0	0.0
251	8/15/2018	12:55:32	0.0	0.0	0.0	0.0
252	8/15/2018	12:56:32	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

253	8/15/2018	12:57:32	0.0	0.0	0.0	0.0
254	8/15/2018	12:58:32	0.0	0.0	0.0	0.0
255	8/15/2018	12:59:32	0.0	0.0	0.0	0.0
256	8/15/2018	13:00:32	0.0	0.0	0.0	0.0
257	8/15/2018	13:01:32	0.0	0.0	0.0	0.0
258	8/15/2018	13:02:32	0.0	0.0	0.0	0.0
259	8/15/2018	13:03:32	0.0	0.0	0.0	0.0
260	8/15/2018	13:04:32	0.0	0.0	0.0	0.0
261	8/15/2018	13:05:32	0.0	0.0	0.0	0.0
262	8/15/2018	13:06:32	0.0	0.0	0.0	0.0
263	8/15/2018	13:07:32	0.0	0.0	0.0	0.0
264	8/15/2018	13:08:32	0.0	0.0	0.0	0.0
265	8/15/2018	13:09:32	0.0	0.0	0.0	0.0
266	8/15/2018	13:10:32	0.0	0.0	0.0	0.0
267	8/15/2018	13:11:32	0.0	0.0	0.0	0.0
268	8/15/2018	13:12:32	0.0	0.0	0.0	0.0
269	8/15/2018	13:13:32	0.0	0.0	0.0	0.0
270	8/15/2018	13:14:32	0.0	0.0	0.0	0.0
271	8/15/2018	13:15:32	0.0	0.0	0.0	0.0
272	8/15/2018	13:16:32	0.0	0.0	0.0	0.0
273	8/15/2018	13:17:32	0.0	0.0	0.0	0.0
274	8/15/2018	13:18:32	0.0	0.0	0.0	0.0
275	8/15/2018	13:19:32	0.0	0.0	0.0	0.0
276	8/15/2018	13:20:32	0.0	0.0	0.0	0.0
277	8/15/2018	13:21:32	0.0	0.0	0.0	0.0
278	8/15/2018	13:22:32	0.0	0.0	0.0	0.0
279	8/15/2018	13:23:32	0.0	0.0	0.0	0.0
280	8/15/2018	13:24:32	0.0	0.0	0.0	0.0
281	8/15/2018	13:25:32	0.0	0.0	0.0	0.0
282	8/15/2018	13:26:32	0.0	0.0	0.0	0.0
283	8/15/2018	13:27:32	0.0	0.0	0.0	0.0
284	8/15/2018	13:28:32	0.0	0.0	0.0	0.0
285	8/15/2018	13:29:32	0.0	0.0	0.0	0.0
286	8/15/2018	13:30:32	0.0	0.0	0.0	0.0
287	8/15/2018	13:31:32	0.0	0.0	0.0	0.0
288	8/15/2018	13:32:32	0.0	0.0	0.0	0.0
289	8/15/2018	13:33:32	0.0	0.0	0.0	0.0
290	8/15/2018	13:34:32	0.0	0.0	0.0	0.0
291	8/15/2018	13:35:32	0.0	0.0	0.0	0.0
292	8/15/2018	13:36:32	0.0	0.0	0.0	0.0
293	8/15/2018	13:37:32	0.0	0.0	0.0	0.0
294	8/15/2018	13:38:32	0.0	0.0	0.0	0.0
295	8/15/2018	13:39:32	0.0	0.0	0.0	0.0
296	8/15/2018	13:40:32	0.0	0.0	0.0	0.0
297	8/15/2018	13:41:32	0.0	0.0	0.0	0.0
298	8/15/2018	13:42:32	0.0	0.0	0.0	0.0
299	8/15/2018	13:43:32	0.0	0.0	0.0	0.0
300	8/15/2018	13:44:32	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

301	8/15/2018	13:45:32	0.0	0.0	0.0	0.0
302	8/15/2018	13:46:32	0.0	0.0	0.0	0.0
303	8/15/2018	13:47:32	0.0	0.0	0.0	0.0
304	8/15/2018	13:48:32	0.0	0.0	0.0	0.0
305	8/15/2018	13:49:32	0.0	0.0	0.0	0.0
306	8/15/2018	13:50:32	0.0	0.0	0.0	0.0
307	8/15/2018	13:51:32	0.0	0.0	0.0	0.0
308	8/15/2018	13:52:32	0.0	0.0	0.0	0.0
309	8/15/2018	13:53:32	0.0	0.0	0.0	0.0
310	8/15/2018	13:54:32	0.0	0.0	0.0	0.0
311	8/15/2018	13:55:32	0.0	0.0	0.0	0.0
312	8/15/2018	13:56:32	0.0	0.0	0.0	0.0
313	8/15/2018	13:57:32	0.0	0.0	0.0	0.0
314	8/15/2018	13:58:32	0.0	0.0	0.0	0.0
315	8/15/2018	13:59:32	0.0	0.0	0.0	0.0
316	8/15/2018	14:00:32	0.0	0.0	0.0	0.0
317	8/15/2018	14:01:32	0.0	0.0	0.0	0.0
318	8/15/2018	14:02:32	0.0	0.0	0.0	0.0
319	8/15/2018	14:03:32	0.0	0.0	0.0	0.0
320	8/15/2018	14:04:32	0.0	0.0	0.0	0.0
321	8/15/2018	14:05:32	0.0	0.0	0.0	0.0
322	8/15/2018	14:06:32	0.0	0.0	0.0	0.0
323	8/15/2018	14:07:32	0.0	0.0	0.0	0.0
324	8/15/2018	14:08:32	0.0	0.0	0.0	0.0
325	8/15/2018	14:09:32	0.0	0.0	0.0	0.0
326	8/15/2018	14:10:32	0.0	0.0	0.0	0.0
327	8/15/2018	14:11:32	0.0	0.0	0.0	0.0
328	8/15/2018	14:12:32	0.0	0.0	0.0	0.0
329	8/15/2018	14:13:32	0.0	0.0	0.0	0.0
330	8/15/2018	14:14:32	0.0	0.0	0.0	0.0
331	8/15/2018	14:15:32	0.0	0.0	0.0	0.0
332	8/15/2018	14:16:32	0.0	0.0	0.0	0.0
333	8/15/2018	14:17:32	0.0	0.0	0.0	0.0
334	8/15/2018	14:18:32	0.0	0.0	0.0	0.0
335	8/15/2018	14:19:32	0.0	0.0	0.0	0.0
336	8/15/2018	14:20:32	0.0	0.0	0.0	0.0
337	8/15/2018	14:21:32	0.0	0.0	0.0	0.0
338	8/15/2018	14:22:32	0.0	0.0	0.0	0.0
339	8/15/2018	14:23:32	0.0	0.0	0.0	0.0
340	8/15/2018	14:24:32	0.0	0.0	0.0	0.0
341	8/15/2018	14:25:32	0.0	0.0	0.0	0.0
342	8/15/2018	14:26:32	0.0	0.0	0.0	0.0
343	8/15/2018	14:27:32	0.0	0.0	0.0	0.0
344	8/15/2018	14:28:32	0.0	0.0	0.0	0.0
345	8/15/2018	14:29:32	0.0	0.0	0.0	0.0
346	8/15/2018	14:30:32	0.0	0.0	0.0	0.0
347	8/15/2018	14:31:32	0.0	0.0	0.0	0.0
348	8/15/2018	14:32:32	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

349	8/15/2018	14:33:32	0.0	0.0	0.0	0.0
350	8/15/2018	14:34:32	0.0	0.0	0.0	0.0
351	8/15/2018	14:35:32	0.0	0.0	0.0	0.0
352	8/15/2018	14:36:32	0.0	0.0	0.0	0.0
353	8/15/2018	14:37:32	0.0	0.0	0.0	0.0
354	8/15/2018	14:38:32	0.0	0.0	0.0	0.0
355	8/15/2018	14:39:32	0.0	0.0	0.0	0.0
356	8/15/2018	14:40:32	0.0	0.0	0.0	0.0
357	8/15/2018	14:41:32	0.0	0.0	0.0	0.0
358	8/15/2018	14:42:32	0.0	0.0	0.0	0.0
359	8/15/2018	14:43:32	0.0	0.0	0.0	0.0
360	8/15/2018	14:44:32	0.0	0.0	0.0	0.0
361	8/15/2018	14:45:32	0.0	0.0	0.0	0.0
362	8/15/2018	14:46:32	0.0	0.0	0.0	0.0
363	8/15/2018	14:47:32	0.0	0.0	0.0	0.0
364	8/15/2018	14:48:32	0.0	0.0	0.0	0.0
365	8/15/2018	14:49:32	0.0	0.0	0.0	0.0
366	8/15/2018	14:50:32	0.0	0.0	0.0	0.0
367	8/15/2018	14:51:32	0.0	0.0	0.0	0.0
368	8/15/2018	14:52:32	0.0	0.0	0.0	0.0
369	8/15/2018	14:53:32	0.0	0.0	0.0	0.0
370	8/15/2018	14:54:32	0.0	0.0	0.0	0.0
371	8/15/2018	14:55:32	0.0	0.0	0.0	0.0
372	8/15/2018	14:56:32	0.0	0.0	0.0	0.0
373	8/15/2018	14:57:32	0.0	0.0	0.0	0.0
374	8/15/2018	14:58:32	0.0	0.0	0.0	0.0
375	8/15/2018	14:59:32	0.0	0.0	0.0	0.0
376	8/15/2018	15:00:32	0.0	0.0	0.0	0.0
377	8/15/2018	15:01:32	0.0	0.0	0.0	0.0
378	8/15/2018	15:02:32	0.0	0.0	0.0	0.0
379	8/15/2018	15:03:32	0.0	0.0	0.0	0.0
380	8/15/2018	15:04:32	0.0	0.0	0.0	0.0
381	8/15/2018	15:05:32	0.0	0.0	0.0	0.0
382	8/15/2018	15:06:32	0.0	0.0	0.0	0.0
383	8/15/2018	15:07:32	0.0	0.0	0.0	0.0
384	8/15/2018	15:08:32	0.0	0.0	0.0	0.0
385	8/15/2018	15:09:32	0.0	0.0	0.0	0.0
386	8/15/2018	15:10:32	0.0	0.0	0.0	0.0
387	8/15/2018	15:11:32	0.0	0.0	0.0	0.0
388	8/15/2018	15:12:32	0.0	0.0	0.0	0.0
389	8/15/2018	15:13:32	0.0	0.0	0.0	0.0
390	8/15/2018	15:14:32	0.0	0.0	0.0	0.0
391	8/15/2018	15:15:32	0.0	0.0	0.0	0.0
392	8/15/2018	15:16:32	0.0	0.0	0.0	0.0
393	8/15/2018	15:17:32	0.0	0.0	0.0	0.0
394	8/15/2018	15:18:32	0.0	0.0	0.0	0.0
395	8/15/2018	15:19:32	0.0	0.0	0.0	0.0
396	8/15/2018	15:20:32	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

397	8/15/2018	15:21:32	0.0	0.0	0.0	0.0
398	8/15/2018	15:22:32	0.0	0.0	0.0	0.0
399	8/15/2018	15:23:32	0.0	0.0	0.0	0.0
400	8/15/2018	15:24:32	0.0	0.0	0.0	0.0
401	8/15/2018	15:25:32	0.0	0.0	0.0	0.0
402	8/15/2018	15:26:32	0.0	0.0	0.0	0.0
403	8/15/2018	15:27:32	0.0	0.0	0.0	0.0
404	8/15/2018	15:28:32	0.0	0.0	0.0	0.0
405	8/15/2018	15:29:32	0.0	0.0	0.0	0.0
406	8/15/2018	15:30:32	0.0	0.0	0.0	0.0
407	8/15/2018	15:31:32	0.0	0.0	0.0	0.0
408	8/15/2018	15:32:32	0.0	0.0	0.0	0.0
409	8/15/2018	15:33:32	0.0	0.0	0.0	0.0
410	8/15/2018	15:34:32	0.0	0.0	0.0	0.0
411	8/15/2018	15:35:32	0.0	0.0	0.0	0.0
412	8/15/2018	15:36:32	0.0	0.0	0.0	0.0
413	8/15/2018	15:37:32	0.0	0.0	0.0	0.0
414	8/15/2018	15:38:32	0.0	0.0	0.0	0.0
415	8/15/2018	15:39:32	0.0	0.0	0.0	0.0
416	8/15/2018	15:40:32	0.0	0.0	0.0	0.0
417	8/15/2018	15:41:32	0.0	0.0	0.0	0.0
418	8/15/2018	15:42:32	0.0	0.0	0.0	0.0
419	8/15/2018	15:43:32	0.0	0.0	0.0	0.0
420	8/15/2018	15:44:32	0.0	0.0	0.0	0.0
421	8/15/2018	15:45:32	0.0	0.0	0.0	0.0
422	8/15/2018	15:46:32	0.0	0.0	0.0	0.0
423	8/15/2018	15:47:32	0.0	0.0	0.0	0.0
424	8/15/2018	15:48:32	0.0	0.0	0.0	0.0
425	8/15/2018	15:49:32	0.0	0.0	0.0	0.0
426	8/15/2018	15:50:32	0.0	0.0	0.0	0.0
427	8/15/2018	15:51:32	0.0	0.0	0.0	0.0
428	8/15/2018	15:52:32	0.0	0.0	0.0	0.0
429	8/15/2018	15:53:32	0.0	0.0	0.0	0.0
430	8/15/2018	15:54:32	0.0	0.0	0.0	0.0
431	8/15/2018	15:55:32	0.0	0.0	0.0	0.0
432	8/15/2018	15:56:32	0.0	0.0	0.0	0.0
433	8/15/2018	15:57:32	0.0	0.0	0.0	0.0
434	8/15/2018	15:58:32	0.0	0.0	0.0	0.0
435	8/15/2018	15:59:32	0.0	0.0	0.0	0.0
436	8/15/2018	16:00:32	0.0	0.0	0.0	0.0
437	8/15/2018	16:01:32	0.0	0.0	0.0	0.0
438	8/15/2018	16:02:32	0.0	0.0	0.0	0.0
439	8/15/2018	16:03:32	0.0	0.0	0.0	0.0
440	8/15/2018	16:04:32	0.0	0.0	0.0	0.0
441	8/15/2018	16:05:32	0.0	0.0	0.0	0.0
442	8/15/2018	16:06:32	0.0	0.0	0.0	0.0
443	8/15/2018	16:07:32	0.0	0.0	0.0	0.0
444	8/15/2018	16:08:32	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

445	8/15/2018	16:09:32	0.0	0.0	0.0	0.0
446	8/15/2018	16:10:32	0.0	0.0	0.0	0.0
447	8/15/2018	16:11:32	0.0	0.0	0.0	0.0
448	8/15/2018	16:12:32	0.0	0.0	0.0	0.0
449	8/15/2018	16:13:32	0.0	0.0	0.0	0.0
450	8/15/2018	16:14:32	0.0	0.0	0.0	0.0
451	8/15/2018	16:15:32	0.0	0.0	0.0	0.0
452	8/15/2018	16:16:32	0.0	0.0	0.0	0.0
453	8/15/2018	16:17:32	0.0	0.0	0.0	0.0
454	8/15/2018	16:18:32	0.0	0.0	0.0	0.0
455	8/15/2018	16:19:32	0.0	0.0	0.0	0.0
456	8/15/2018	16:20:32	0.0	0.0	0.0	0.0
457	8/15/2018	16:21:32	0.0	0.0	0.0	0.0
458	8/15/2018	16:22:32	0.0	0.0	0.0	0.0
459	8/15/2018	16:23:32	0.0	0.0	0.0	0.0
460	8/15/2018	16:24:32	0.0	0.0	0.0	0.0
461	8/15/2018	16:25:32	0.0	0.0	0.0	0.0
462	8/15/2018	16:26:32	0.0	0.0	0.0	0.0
463	8/15/2018	16:27:32	0.0	0.0	0.0	0.0
464	8/15/2018	16:28:32	0.0	0.0	0.0	0.0
465	8/15/2018	16:29:32	0.0	0.0	0.0	0.0
466	8/15/2018	16:30:32	0.0	0.0	0.0	0.0
467	8/15/2018	16:31:32	0.0	0.0	0.0	0.0
468	8/15/2018	16:32:32	0.0	0.0	0.0	0.0
469	8/15/2018	16:33:32	0.0	0.0	0.0	0.0
470	8/15/2018	16:34:32	0.0	0.0	0.0	0.0
471	8/15/2018	16:35:32	0.0	0.0	0.0	0.0
472	8/15/2018	16:36:32	0.0	0.0	0.0	0.0
473	8/15/2018	16:37:32	0.0	0.0	0.0	0.0
474	8/15/2018	16:38:32	0.0	0.0	0.0	0.0
475	8/15/2018	16:39:32	0.0	0.0	0.0	0.0
476	8/15/2018	16:40:32	0.0	0.0	0.0	0.0
477	8/15/2018	16:41:32	0.0	0.0	0.0	0.0
478	8/15/2018	16:42:32	0.0	0.0	0.0	0.0
479	8/15/2018	16:43:32	0.0	0.0	0.0	0.0
480	8/15/2018	16:44:32	0.0	0.0	0.0	0.0
481	8/15/2018	16:45:32	0.0	0.0	0.0	0.0
482	8/15/2018	16:46:32	0.0	0.0	0.0	0.0
483	8/15/2018	16:47:32	0.0	0.0	0.0	0.0
484	8/15/2018	16:48:32	0.0	0.0	0.0	0.0
485	8/15/2018	16:49:32	0.0	0.0	0.0	0.0
486	8/15/2018	16:50:32	0.0	0.0	0.0	0.0
487	8/15/2018	16:51:32	0.0	0.0	0.0	0.0
488	8/15/2018	16:52:32	0.0	0.0	0.0	0.0
489	8/15/2018	16:53:32	0.0	0.0	0.0	0.0
490	8/15/2018	16:54:32	0.0	0.0	0.0	0.0
491	8/15/2018	16:55:32	0.0	0.0	0.0	0.0
492	8/15/2018	16:56:32	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

493	8/15/2018	16:57:32	0.0	0.0	0.0	0.0
494	8/15/2018	16:58:32	0.0	0.0	0.0	0.0
495	8/15/2018	16:59:32	0.0	0.0	0.0	0.0
496	8/15/2018	17:00:32	0.0	0.0	0.0	0.0
497	8/15/2018	17:01:32	0.0	0.0	0.0	0.0
498	8/15/2018	17:02:32	0.0	0.0	0.0	0.0
499	8/15/2018	17:03:32	0.0	0.0	0.0	0.0
500	8/15/2018	17:04:32	0.0	0.0	0.0	0.0
501	8/15/2018	17:05:32	0.0	0.0	0.0	0.0
502	8/15/2018	17:06:32	0.0	0.0	0.0	0.0
503	8/15/2018	17:07:32	0.0	0.0	0.0	0.0
504	8/15/2018	17:08:32	0.0	0.0	0.0	0.0
505	8/15/2018	17:09:32	0.0	0.0	0.0	0.0
506	8/15/2018	17:10:32	0.0	0.0	0.0	0.0
507	8/15/2018	17:11:32	0.0	0.0	0.0	0.0
508	8/15/2018	17:12:32	0.0	0.0	0.0	0.0
509	8/15/2018	17:13:32	0.0	0.0	0.0	0.0
510	8/15/2018	17:14:32	0.0	0.0	0.0	0.0
511	8/15/2018	17:15:32	0.0	0.0	0.0	0.0
512	8/15/2018	17:16:32	0.0	0.0	0.0	0.0
513	8/15/2018	17:17:32	0.0	0.0	0.0	0.0
514	8/15/2018	17:18:32	0.0	0.0	0.0	0.0
515	8/15/2018	17:19:32	0.0	0.0	0.0	0.0
516	8/15/2018	17:20:32	0.0	0.0	0.0	0.0
517	8/15/2018	17:21:32	0.0	0.0	0.0	0.0
518	8/15/2018	17:22:32	0.0	0.0	0.0	0.0
519	8/15/2018	17:23:32	0.0	0.0	0.0	0.0
Peak		0.0	0.0	0.0	0.0	
Min		0.0	0.0	0.0	0.0	
Average		0.0	0.0	0.0	0.0	

TWA/STEL

Index	Date/Time	PID(ppm) (TWA)	PID(ppm) (STEL)
001	8/15/2018 08:45:32	0.0	---
002	8/15/2018 08:46:32	0.0	---
003	8/15/2018 08:47:32	0.0	---
004	8/15/2018 08:48:32	0.0	---
005	8/15/2018 08:49:32	0.0	---
006	8/15/2018 08:50:32	0.0	---
007	8/15/2018 08:51:32	0.0	---
008	8/15/2018 08:52:32	0.0	---
009	8/15/2018 08:53:32	0.0	---
010	8/15/2018 08:54:32	0.0	---
011	8/15/2018 08:55:32	0.0	---
012	8/15/2018 08:56:32	0.0	---
013	8/15/2018 08:57:32	0.0	---

PRS_EXPORT_20181119.txt38160

014	8/15/2018	08:58:32	0.0	---
015	8/15/2018	08:59:32	0.0	0.0
016	8/15/2018	09:00:32	0.0	0.0
017	8/15/2018	09:01:32	0.0	0.0
018	8/15/2018	09:02:32	0.0	0.0
019	8/15/2018	09:03:32	0.0	0.0
020	8/15/2018	09:04:32	0.0	0.0
021	8/15/2018	09:05:32	0.0	0.0
022	8/15/2018	09:06:32	0.0	0.0
023	8/15/2018	09:07:32	0.0	0.0
024	8/15/2018	09:08:32	0.0	0.0
025	8/15/2018	09:09:32	0.0	0.0
026	8/15/2018	09:10:32	0.0	0.0
027	8/15/2018	09:11:32	0.0	0.0
028	8/15/2018	09:12:32	0.0	0.0
029	8/15/2018	09:13:32	0.0	0.0
030	8/15/2018	09:14:32	0.0	0.0
031	8/15/2018	09:15:32	0.0	0.0
032	8/15/2018	09:16:32	0.0	0.0
033	8/15/2018	09:17:32	0.0	0.0
034	8/15/2018	09:18:32	0.0	0.0
035	8/15/2018	09:19:32	0.0	0.0
036	8/15/2018	09:20:32	0.0	0.0
037	8/15/2018	09:21:32	0.0	0.0
038	8/15/2018	09:22:32	0.0	0.0
039	8/15/2018	09:23:32	0.0	0.0
040	8/15/2018	09:24:32	0.0	0.0
041	8/15/2018	09:25:32	0.0	0.0
042	8/15/2018	09:26:32	0.0	0.0
043	8/15/2018	09:27:32	0.0	0.0
044	8/15/2018	09:28:32	0.0	0.0
045	8/15/2018	09:29:32	0.0	0.0
046	8/15/2018	09:30:32	0.0	0.0
047	8/15/2018	09:31:32	0.0	0.0
048	8/15/2018	09:32:32	0.0	0.0
049	8/15/2018	09:33:32	0.0	0.0
050	8/15/2018	09:34:32	0.0	0.0
051	8/15/2018	09:35:32	0.0	0.0
052	8/15/2018	09:36:32	0.0	0.0
053	8/15/2018	09:37:32	0.0	0.0
054	8/15/2018	09:38:32	0.0	0.0
055	8/15/2018	09:39:32	0.0	0.0
056	8/15/2018	09:40:32	0.0	0.0
057	8/15/2018	09:41:32	0.0	0.0
058	8/15/2018	09:42:32	0.0	0.0
059	8/15/2018	09:43:32	0.0	0.0
060	8/15/2018	09:44:32	0.0	0.0
061	8/15/2018	09:45:32	0.0	0.0

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062	8/15/2018	09:46:32	0.0	0.0
063	8/15/2018	09:47:32	0.0	0.0
064	8/15/2018	09:48:32	0.0	0.0
065	8/15/2018	09:49:32	0.0	0.0
066	8/15/2018	09:50:32	0.0	0.0
067	8/15/2018	09:51:32	0.0	0.0
068	8/15/2018	09:52:32	0.0	0.0
069	8/15/2018	09:53:32	0.0	0.0
070	8/15/2018	09:54:32	0.0	0.0
071	8/15/2018	09:55:32	0.0	0.0
072	8/15/2018	09:56:32	0.0	0.0
073	8/15/2018	09:57:32	0.0	0.0
074	8/15/2018	09:58:32	0.0	0.0
075	8/15/2018	09:59:32	0.0	0.0
076	8/15/2018	10:00:32	0.0	0.0
077	8/15/2018	10:01:32	0.0	0.0
078	8/15/2018	10:02:32	0.0	0.0
079	8/15/2018	10:03:32	0.0	0.0
080	8/15/2018	10:04:32	0.0	0.0
081	8/15/2018	10:05:32	0.0	0.0
082	8/15/2018	10:06:32	0.0	0.0
083	8/15/2018	10:07:32	0.0	0.0
084	8/15/2018	10:08:32	0.0	0.0
085	8/15/2018	10:09:32	0.0	0.0
086	8/15/2018	10:10:32	0.0	0.0
087	8/15/2018	10:11:32	0.0	0.0
088	8/15/2018	10:12:32	0.0	0.0
089	8/15/2018	10:13:32	0.0	0.0
090	8/15/2018	10:14:32	0.0	0.0
091	8/15/2018	10:15:32	0.0	0.0
092	8/15/2018	10:16:32	0.0	0.0
093	8/15/2018	10:17:32	0.0	0.0
094	8/15/2018	10:18:32	0.0	0.0
095	8/15/2018	10:19:32	0.0	0.0
096	8/15/2018	10:20:32	0.0	0.0
097	8/15/2018	10:21:32	0.0	0.0
098	8/15/2018	10:22:32	0.0	0.0
099	8/15/2018	10:23:32	0.0	0.0
100	8/15/2018	10:24:32	0.0	0.0
101	8/15/2018	10:25:32	0.0	0.0
102	8/15/2018	10:26:32	0.0	0.0
103	8/15/2018	10:27:32	0.0	0.0
104	8/15/2018	10:28:32	0.0	0.0
105	8/15/2018	10:29:32	0.0	0.0
106	8/15/2018	10:30:32	0.0	0.0
107	8/15/2018	10:31:32	0.0	0.0
108	8/15/2018	10:32:32	0.0	0.0
109	8/15/2018	10:33:32	0.0	0.0

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110	8/15/2018	10:34:32	0.0	0.0
111	8/15/2018	10:35:32	0.0	0.0
112	8/15/2018	10:36:32	0.0	0.0
113	8/15/2018	10:37:32	0.0	0.0
114	8/15/2018	10:38:32	0.0	0.0
115	8/15/2018	10:39:32	0.0	0.0
116	8/15/2018	10:40:32	0.0	0.0
117	8/15/2018	10:41:32	0.0	0.0
118	8/15/2018	10:42:32	0.0	0.0
119	8/15/2018	10:43:32	0.0	0.0
120	8/15/2018	10:44:32	0.0	0.0
121	8/15/2018	10:45:32	0.0	0.0
122	8/15/2018	10:46:32	0.0	0.0
123	8/15/2018	10:47:32	0.0	0.0
124	8/15/2018	10:48:32	0.0	0.0
125	8/15/2018	10:49:32	0.0	0.0
126	8/15/2018	10:50:32	0.0	0.0
127	8/15/2018	10:51:32	0.0	0.0
128	8/15/2018	10:52:32	0.0	0.0
129	8/15/2018	10:53:32	0.0	0.0
130	8/15/2018	10:54:32	0.0	0.0
131	8/15/2018	10:55:32	0.0	0.0
132	8/15/2018	10:56:32	0.0	0.0
133	8/15/2018	10:57:32	0.0	0.0
134	8/15/2018	10:58:32	0.0	0.0
135	8/15/2018	10:59:32	0.0	0.0
136	8/15/2018	11:00:32	0.0	0.0
137	8/15/2018	11:01:32	0.0	0.0
138	8/15/2018	11:02:32	0.0	0.0
139	8/15/2018	11:03:32	0.0	0.0
140	8/15/2018	11:04:32	0.0	0.0
141	8/15/2018	11:05:32	0.0	0.0
142	8/15/2018	11:06:32	0.0	0.0
143	8/15/2018	11:07:32	0.0	0.0
144	8/15/2018	11:08:32	0.0	0.0
145	8/15/2018	11:09:32	0.0	0.0
146	8/15/2018	11:10:32	0.0	0.0
147	8/15/2018	11:11:32	0.0	0.0
148	8/15/2018	11:12:32	0.0	0.0
149	8/15/2018	11:13:32	0.0	0.0
150	8/15/2018	11:14:32	0.0	0.0
151	8/15/2018	11:15:32	0.0	0.0
152	8/15/2018	11:16:32	0.0	0.0
153	8/15/2018	11:17:32	0.0	0.0
154	8/15/2018	11:18:32	0.0	0.0
155	8/15/2018	11:19:32	0.0	0.0
156	8/15/2018	11:20:32	0.0	0.0
157	8/15/2018	11:21:32	0.0	0.0

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158	8/15/2018	11:22:32	0.0	0.0
159	8/15/2018	11:23:32	0.0	0.0
160	8/15/2018	11:24:32	0.0	0.0
161	8/15/2018	11:25:32	0.0	0.0
162	8/15/2018	11:26:32	0.0	0.0
163	8/15/2018	11:27:32	0.0	0.0
164	8/15/2018	11:28:32	0.0	0.0
165	8/15/2018	11:29:32	0.0	0.0
166	8/15/2018	11:30:32	0.0	0.0
167	8/15/2018	11:31:32	0.0	0.0
168	8/15/2018	11:32:32	0.0	0.0
169	8/15/2018	11:33:32	0.0	0.0
170	8/15/2018	11:34:32	0.0	0.0
171	8/15/2018	11:35:32	0.0	0.0
172	8/15/2018	11:36:32	0.0	0.0
173	8/15/2018	11:37:32	0.0	0.0
174	8/15/2018	11:38:32	0.0	0.0
175	8/15/2018	11:39:32	0.0	0.0
176	8/15/2018	11:40:32	0.0	0.0
177	8/15/2018	11:41:32	0.0	0.0
178	8/15/2018	11:42:32	0.0	0.0
179	8/15/2018	11:43:32	0.0	0.0
180	8/15/2018	11:44:32	0.0	0.0
181	8/15/2018	11:45:32	0.0	0.0
182	8/15/2018	11:46:32	0.0	0.0
183	8/15/2018	11:47:32	0.0	0.0
184	8/15/2018	11:48:32	0.0	0.0
185	8/15/2018	11:49:32	0.0	0.0
186	8/15/2018	11:50:32	0.0	0.0
187	8/15/2018	11:51:32	0.0	0.0
188	8/15/2018	11:52:32	0.0	0.0
189	8/15/2018	11:53:32	0.0	0.0
190	8/15/2018	11:54:32	0.0	0.0
191	8/15/2018	11:55:32	0.0	0.0
192	8/15/2018	11:56:32	0.0	0.0
193	8/15/2018	11:57:32	0.0	0.0
194	8/15/2018	11:58:32	0.0	0.0
195	8/15/2018	11:59:32	0.0	0.0
196	8/15/2018	12:00:32	0.0	0.0
197	8/15/2018	12:01:32	0.0	0.0
198	8/15/2018	12:02:32	0.0	0.0
199	8/15/2018	12:03:32	0.0	0.0
200	8/15/2018	12:04:32	0.0	0.0
201	8/15/2018	12:05:32	0.0	0.0
202	8/15/2018	12:06:32	0.0	0.0
203	8/15/2018	12:07:32	0.0	0.0
204	8/15/2018	12:08:32	0.0	0.0
205	8/15/2018	12:09:32	0.0	0.0

PRS_EXPORT_20181119.txt38160

206	8/15/2018	12:10:32	0.0	0.0
207	8/15/2018	12:11:32	0.0	0.0
208	8/15/2018	12:12:32	0.0	0.0
209	8/15/2018	12:13:32	0.0	0.0
210	8/15/2018	12:14:32	0.0	0.0
211	8/15/2018	12:15:32	0.0	0.0
212	8/15/2018	12:16:32	0.0	0.0
213	8/15/2018	12:17:32	0.0	0.0
214	8/15/2018	12:18:32	0.0	0.0
215	8/15/2018	12:19:32	0.0	0.0
216	8/15/2018	12:20:32	0.0	0.0
217	8/15/2018	12:21:32	0.0	0.0
218	8/15/2018	12:22:32	0.0	0.0
219	8/15/2018	12:23:32	0.0	0.0
220	8/15/2018	12:24:32	0.0	0.0
221	8/15/2018	12:25:32	0.0	0.0
222	8/15/2018	12:26:32	0.0	0.0
223	8/15/2018	12:27:32	0.0	0.0
224	8/15/2018	12:28:32	0.0	0.0
225	8/15/2018	12:29:32	0.0	0.0
226	8/15/2018	12:30:32	0.0	0.0
227	8/15/2018	12:31:32	0.0	0.0
228	8/15/2018	12:32:32	0.0	0.0
229	8/15/2018	12:33:32	0.0	0.0
230	8/15/2018	12:34:32	0.0	0.0
231	8/15/2018	12:35:32	0.0	0.0
232	8/15/2018	12:36:32	0.0	0.0
233	8/15/2018	12:37:32	0.0	0.0
234	8/15/2018	12:38:32	0.0	0.0
235	8/15/2018	12:39:32	0.0	0.0
236	8/15/2018	12:40:32	0.0	0.0
237	8/15/2018	12:41:32	0.0	0.0
238	8/15/2018	12:42:32	0.0	0.0
239	8/15/2018	12:43:32	0.0	0.0
240	8/15/2018	12:44:32	0.0	0.0
241	8/15/2018	12:45:32	0.0	0.0
242	8/15/2018	12:46:32	0.0	0.0
243	8/15/2018	12:47:32	0.0	0.0
244	8/15/2018	12:48:32	0.0	0.0
245	8/15/2018	12:49:32	0.0	0.0
246	8/15/2018	12:50:32	0.0	0.0
247	8/15/2018	12:51:32	0.0	0.0
248	8/15/2018	12:52:32	0.0	0.0
249	8/15/2018	12:53:32	0.0	0.0
250	8/15/2018	12:54:32	0.0	0.0
251	8/15/2018	12:55:32	0.0	0.0
252	8/15/2018	12:56:32	0.0	0.0
253	8/15/2018	12:57:32	0.0	0.0

PRS_EXPORT_20181119.txt38160

254	8/15/2018	12:58:32	0.0	0.0
255	8/15/2018	12:59:32	0.0	0.0
256	8/15/2018	13:00:32	0.0	0.0
257	8/15/2018	13:01:32	0.0	0.0
258	8/15/2018	13:02:32	0.0	0.0
259	8/15/2018	13:03:32	0.0	0.0
260	8/15/2018	13:04:32	0.0	0.0
261	8/15/2018	13:05:32	0.0	0.0
262	8/15/2018	13:06:32	0.0	0.0
263	8/15/2018	13:07:32	0.0	0.0
264	8/15/2018	13:08:32	0.0	0.0
265	8/15/2018	13:09:32	0.0	0.0
266	8/15/2018	13:10:32	0.0	0.0
267	8/15/2018	13:11:32	0.0	0.0
268	8/15/2018	13:12:32	0.0	0.0
269	8/15/2018	13:13:32	0.0	0.0
270	8/15/2018	13:14:32	0.0	0.0
271	8/15/2018	13:15:32	0.0	0.0
272	8/15/2018	13:16:32	0.0	0.0
273	8/15/2018	13:17:32	0.0	0.0
274	8/15/2018	13:18:32	0.0	0.0
275	8/15/2018	13:19:32	0.0	0.0
276	8/15/2018	13:20:32	0.0	0.0
277	8/15/2018	13:21:32	0.0	0.0
278	8/15/2018	13:22:32	0.0	0.0
279	8/15/2018	13:23:32	0.0	0.0
280	8/15/2018	13:24:32	0.0	0.0
281	8/15/2018	13:25:32	0.0	0.0
282	8/15/2018	13:26:32	0.0	0.0
283	8/15/2018	13:27:32	0.0	0.0
284	8/15/2018	13:28:32	0.0	0.0
285	8/15/2018	13:29:32	0.0	0.0
286	8/15/2018	13:30:32	0.0	0.0
287	8/15/2018	13:31:32	0.0	0.0
288	8/15/2018	13:32:32	0.0	0.0
289	8/15/2018	13:33:32	0.0	0.0
290	8/15/2018	13:34:32	0.0	0.0
291	8/15/2018	13:35:32	0.0	0.0
292	8/15/2018	13:36:32	0.0	0.0
293	8/15/2018	13:37:32	0.0	0.0
294	8/15/2018	13:38:32	0.0	0.0
295	8/15/2018	13:39:32	0.0	0.0
296	8/15/2018	13:40:32	0.0	0.0
297	8/15/2018	13:41:32	0.0	0.0
298	8/15/2018	13:42:32	0.0	0.0
299	8/15/2018	13:43:32	0.0	0.0
300	8/15/2018	13:44:32	0.0	0.0
301	8/15/2018	13:45:32	0.0	0.0

PRS_EXPORT_20181119.txt38160

302	8/15/2018	13:46:32	0.0	0.0
303	8/15/2018	13:47:32	0.0	0.0
304	8/15/2018	13:48:32	0.0	0.0
305	8/15/2018	13:49:32	0.0	0.0
306	8/15/2018	13:50:32	0.0	0.0
307	8/15/2018	13:51:32	0.0	0.0
308	8/15/2018	13:52:32	0.0	0.0
309	8/15/2018	13:53:32	0.0	0.0
310	8/15/2018	13:54:32	0.0	0.0
311	8/15/2018	13:55:32	0.0	0.0
312	8/15/2018	13:56:32	0.0	0.0
313	8/15/2018	13:57:32	0.0	0.0
314	8/15/2018	13:58:32	0.0	0.0
315	8/15/2018	13:59:32	0.0	0.0
316	8/15/2018	14:00:32	0.0	0.0
317	8/15/2018	14:01:32	0.0	0.0
318	8/15/2018	14:02:32	0.0	0.0
319	8/15/2018	14:03:32	0.0	0.0
320	8/15/2018	14:04:32	0.0	0.0
321	8/15/2018	14:05:32	0.0	0.0
322	8/15/2018	14:06:32	0.0	0.0
323	8/15/2018	14:07:32	0.0	0.0
324	8/15/2018	14:08:32	0.0	0.0
325	8/15/2018	14:09:32	0.0	0.0
326	8/15/2018	14:10:32	0.0	0.0
327	8/15/2018	14:11:32	0.0	0.0
328	8/15/2018	14:12:32	0.0	0.0
329	8/15/2018	14:13:32	0.0	0.0
330	8/15/2018	14:14:32	0.0	0.0
331	8/15/2018	14:15:32	0.0	0.0
332	8/15/2018	14:16:32	0.0	0.0
333	8/15/2018	14:17:32	0.0	0.0
334	8/15/2018	14:18:32	0.0	0.0
335	8/15/2018	14:19:32	0.0	0.0
336	8/15/2018	14:20:32	0.0	0.0
337	8/15/2018	14:21:32	0.0	0.0
338	8/15/2018	14:22:32	0.0	0.0
339	8/15/2018	14:23:32	0.0	0.0
340	8/15/2018	14:24:32	0.0	0.0
341	8/15/2018	14:25:32	0.0	0.0
342	8/15/2018	14:26:32	0.0	0.0
343	8/15/2018	14:27:32	0.0	0.0
344	8/15/2018	14:28:32	0.0	0.0
345	8/15/2018	14:29:32	0.0	0.0
346	8/15/2018	14:30:32	0.0	0.0
347	8/15/2018	14:31:32	0.0	0.0
348	8/15/2018	14:32:32	0.0	0.0
349	8/15/2018	14:33:32	0.0	0.0

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350	8/15/2018	14:34:32	0.0	0.0
351	8/15/2018	14:35:32	0.0	0.0
352	8/15/2018	14:36:32	0.0	0.0
353	8/15/2018	14:37:32	0.0	0.0
354	8/15/2018	14:38:32	0.0	0.0
355	8/15/2018	14:39:32	0.0	0.0
356	8/15/2018	14:40:32	0.0	0.0
357	8/15/2018	14:41:32	0.0	0.0
358	8/15/2018	14:42:32	0.0	0.0
359	8/15/2018	14:43:32	0.0	0.0
360	8/15/2018	14:44:32	0.0	0.0
361	8/15/2018	14:45:32	0.0	0.0
362	8/15/2018	14:46:32	0.0	0.0
363	8/15/2018	14:47:32	0.0	0.0
364	8/15/2018	14:48:32	0.0	0.0
365	8/15/2018	14:49:32	0.0	0.0
366	8/15/2018	14:50:32	0.0	0.0
367	8/15/2018	14:51:32	0.0	0.0
368	8/15/2018	14:52:32	0.0	0.0
369	8/15/2018	14:53:32	0.0	0.0
370	8/15/2018	14:54:32	0.0	0.0
371	8/15/2018	14:55:32	0.0	0.0
372	8/15/2018	14:56:32	0.0	0.0
373	8/15/2018	14:57:32	0.0	0.0
374	8/15/2018	14:58:32	0.0	0.0
375	8/15/2018	14:59:32	0.0	0.0
376	8/15/2018	15:00:32	0.0	0.0
377	8/15/2018	15:01:32	0.0	0.0
378	8/15/2018	15:02:32	0.0	0.0
379	8/15/2018	15:03:32	0.0	0.0
380	8/15/2018	15:04:32	0.0	0.0
381	8/15/2018	15:05:32	0.0	0.0
382	8/15/2018	15:06:32	0.0	0.0
383	8/15/2018	15:07:32	0.0	0.0
384	8/15/2018	15:08:32	0.0	0.0
385	8/15/2018	15:09:32	0.0	0.0
386	8/15/2018	15:10:32	0.0	0.0
387	8/15/2018	15:11:32	0.0	0.0
388	8/15/2018	15:12:32	0.0	0.0
389	8/15/2018	15:13:32	0.0	0.0
390	8/15/2018	15:14:32	0.0	0.0
391	8/15/2018	15:15:32	0.0	0.0
392	8/15/2018	15:16:32	0.0	0.0
393	8/15/2018	15:17:32	0.0	0.0
394	8/15/2018	15:18:32	0.0	0.0
395	8/15/2018	15:19:32	0.0	0.0
396	8/15/2018	15:20:32	0.0	0.0
397	8/15/2018	15:21:32	0.0	0.0

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398	8/15/2018	15:22:32	0.0	0.0
399	8/15/2018	15:23:32	0.0	0.0
400	8/15/2018	15:24:32	0.0	0.0
401	8/15/2018	15:25:32	0.0	0.0
402	8/15/2018	15:26:32	0.0	0.0
403	8/15/2018	15:27:32	0.0	0.0
404	8/15/2018	15:28:32	0.0	0.0
405	8/15/2018	15:29:32	0.0	0.0
406	8/15/2018	15:30:32	0.0	0.0
407	8/15/2018	15:31:32	0.0	0.0
408	8/15/2018	15:32:32	0.0	0.0
409	8/15/2018	15:33:32	0.0	0.0
410	8/15/2018	15:34:32	0.0	0.0
411	8/15/2018	15:35:32	0.0	0.0
412	8/15/2018	15:36:32	0.0	0.0
413	8/15/2018	15:37:32	0.0	0.0
414	8/15/2018	15:38:32	0.0	0.0
415	8/15/2018	15:39:32	0.0	0.0
416	8/15/2018	15:40:32	0.0	0.0
417	8/15/2018	15:41:32	0.0	0.0
418	8/15/2018	15:42:32	0.0	0.0
419	8/15/2018	15:43:32	0.0	0.0
420	8/15/2018	15:44:32	0.0	0.0
421	8/15/2018	15:45:32	0.0	0.0
422	8/15/2018	15:46:32	0.0	0.0
423	8/15/2018	15:47:32	0.0	0.0
424	8/15/2018	15:48:32	0.0	0.0
425	8/15/2018	15:49:32	0.0	0.0
426	8/15/2018	15:50:32	0.0	0.0
427	8/15/2018	15:51:32	0.0	0.0
428	8/15/2018	15:52:32	0.0	0.0
429	8/15/2018	15:53:32	0.0	0.0
430	8/15/2018	15:54:32	0.0	0.0
431	8/15/2018	15:55:32	0.0	0.0
432	8/15/2018	15:56:32	0.0	0.0
433	8/15/2018	15:57:32	0.0	0.0
434	8/15/2018	15:58:32	0.0	0.0
435	8/15/2018	15:59:32	0.0	0.0
436	8/15/2018	16:00:32	0.0	0.0
437	8/15/2018	16:01:32	0.0	0.0
438	8/15/2018	16:02:32	0.0	0.0
439	8/15/2018	16:03:32	0.0	0.0
440	8/15/2018	16:04:32	0.0	0.0
441	8/15/2018	16:05:32	0.0	0.0
442	8/15/2018	16:06:32	0.0	0.0
443	8/15/2018	16:07:32	0.0	0.0
444	8/15/2018	16:08:32	0.0	0.0
445	8/15/2018	16:09:32	0.0	0.0

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446	8/15/2018	16:10:32	0.0	0.0
447	8/15/2018	16:11:32	0.0	0.0
448	8/15/2018	16:12:32	0.0	0.0
449	8/15/2018	16:13:32	0.0	0.0
450	8/15/2018	16:14:32	0.0	0.0
451	8/15/2018	16:15:32	0.0	0.0
452	8/15/2018	16:16:32	0.0	0.0
453	8/15/2018	16:17:32	0.0	0.0
454	8/15/2018	16:18:32	0.0	0.0
455	8/15/2018	16:19:32	0.0	0.0
456	8/15/2018	16:20:32	0.0	0.0
457	8/15/2018	16:21:32	0.0	0.0
458	8/15/2018	16:22:32	0.0	0.0
459	8/15/2018	16:23:32	0.0	0.0
460	8/15/2018	16:24:32	0.0	0.0
461	8/15/2018	16:25:32	0.0	0.0
462	8/15/2018	16:26:32	0.0	0.0
463	8/15/2018	16:27:32	0.0	0.0
464	8/15/2018	16:28:32	0.0	0.0
465	8/15/2018	16:29:32	0.0	0.0
466	8/15/2018	16:30:32	0.0	0.0
467	8/15/2018	16:31:32	0.0	0.0
468	8/15/2018	16:32:32	0.0	0.0
469	8/15/2018	16:33:32	0.0	0.0
470	8/15/2018	16:34:32	0.0	0.0
471	8/15/2018	16:35:32	0.0	0.0
472	8/15/2018	16:36:32	0.0	0.0
473	8/15/2018	16:37:32	0.0	0.0
474	8/15/2018	16:38:32	0.0	0.0
475	8/15/2018	16:39:32	0.0	0.0
476	8/15/2018	16:40:32	0.0	0.0
477	8/15/2018	16:41:32	0.0	0.0
478	8/15/2018	16:42:32	0.0	0.0
479	8/15/2018	16:43:32	0.0	0.0
480	8/15/2018	16:44:32	0.0	0.0
481	8/15/2018	16:45:32	0.0	0.0
482	8/15/2018	16:46:32	0.0	0.0
483	8/15/2018	16:47:32	0.0	0.0
484	8/15/2018	16:48:32	0.0	0.0
485	8/15/2018	16:49:32	0.0	0.0
486	8/15/2018	16:50:32	0.0	0.0
487	8/15/2018	16:51:32	0.0	0.0
488	8/15/2018	16:52:32	0.0	0.0
489	8/15/2018	16:53:32	0.0	0.0
490	8/15/2018	16:54:32	0.0	0.0
491	8/15/2018	16:55:32	0.0	0.0
492	8/15/2018	16:56:32	0.0	0.0
493	8/15/2018	16:57:32	0.0	0.0

494	8/15/2018	16:58:32	0.0	0.0
495	8/15/2018	16:59:32	0.0	0.0
496	8/15/2018	17:00:32	0.0	0.0
497	8/15/2018	17:01:32	0.0	0.0
498	8/15/2018	17:02:32	0.0	0.0
499	8/15/2018	17:03:32	0.0	0.0
500	8/15/2018	17:04:32	0.0	0.0
501	8/15/2018	17:05:32	0.0	0.0
502	8/15/2018	17:06:32	0.0	0.0
503	8/15/2018	17:07:32	0.0	0.0
504	8/15/2018	17:08:32	0.0	0.0
505	8/15/2018	17:09:32	0.0	0.0
506	8/15/2018	17:10:32	0.0	0.0
507	8/15/2018	17:11:32	0.0	0.0
508	8/15/2018	17:12:32	0.0	0.0
509	8/15/2018	17:13:32	0.0	0.0
510	8/15/2018	17:14:32	0.0	0.0
511	8/15/2018	17:15:32	0.0	0.0
512	8/15/2018	17:16:32	0.0	0.0
513	8/15/2018	17:17:32	0.0	0.0
514	8/15/2018	17:18:32	0.0	0.0
515	8/15/2018	17:19:32	0.0	0.0
516	8/15/2018	17:20:32	0.0	0.0
517	8/15/2018	17:21:32	0.0	0.0
518	8/15/2018	17:22:32	0.0	0.0
519	8/15/2018	17:23:32	0.0	0.0

=====
18/08/16 08:32

Summary

Unit Name MiniRAE 3000(PGM-7320)
Unit SN 592-919975
Unit Firmware Ver V2.14

Running Mode Hygiene Mode
Datalog Mode Manual
Diagnostic Mode No
Stop Reason Power Down

Site ID RAE00000
User ID UW000000

Begin 8/16/2018 08:32:15
End 8/16/2018 18:15:52
Sample Period(s) 60
Number of Records 583

Sensor PID(ppm)
 Sensor SN S023030116U2
 Measure Type Min; Avg; Max; Real
 Span 100.0
 Span 2 1000.0
 Low Alarm 50.0
 High Alarm 100.0
 Over Alarm 15000.0
 STEL Alarm 25.0
 TWA Alarm 10.0
 Measurement Gas Isobutylene
 Calibration Time 8/16/2018 07:58
 Peak 0.0
 Min 0.0
 Average 0.0

Datalog

Index	Date/Time	PID(ppm) (Min)	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)	PID(ppm)
001	8/16/2018 08:33:15	0.0	0.0	0.0	0.0	0.0
002	8/16/2018 08:34:15	0.0	0.0	0.0	0.0	0.0
003	8/16/2018 08:35:15	0.0	0.0	0.0	0.0	0.0
004	8/16/2018 08:36:15	0.0	0.0	0.0	0.0	0.0
005	8/16/2018 08:37:15	0.0	0.0	0.0	0.0	0.0
006	8/16/2018 08:38:15	0.0	0.0	0.0	0.0	0.0
007	8/16/2018 08:39:15	0.0	0.0	0.0	0.0	0.0
008	8/16/2018 08:40:15	0.0	0.0	0.0	0.0	0.0
009	8/16/2018 08:41:15	0.0	0.0	0.0	0.0	0.0
010	8/16/2018 08:42:15	0.0	0.0	0.0	0.0	0.0
011	8/16/2018 08:43:15	0.0	0.0	0.0	0.0	0.0
012	8/16/2018 08:44:15	0.0	0.0	0.0	0.0	0.0
013	8/16/2018 08:45:15	0.0	0.0	0.0	0.0	0.0
014	8/16/2018 08:46:15	0.0	0.0	0.0	0.0	0.0
015	8/16/2018 08:47:15	0.0	0.0	0.0	0.0	0.0
016	8/16/2018 08:48:15	0.0	0.0	0.0	0.0	0.0
017	8/16/2018 08:49:15	0.0	0.0	0.0	0.0	0.0
018	8/16/2018 08:50:15	0.0	0.0	0.0	0.0	0.0
019	8/16/2018 08:51:15	0.0	0.0	0.0	0.0	0.0
020	8/16/2018 08:52:15	0.0	0.0	0.0	0.0	0.0
021	8/16/2018 08:53:15	0.0	0.0	0.0	0.0	0.0
022	8/16/2018 08:54:15	0.0	0.0	0.0	0.0	0.0
023	8/16/2018 08:55:15	0.0	0.0	0.0	0.0	0.0
024	8/16/2018 08:56:15	0.0	0.0	0.0	0.0	0.0
025	8/16/2018 08:57:15	0.0	0.0	0.0	0.0	0.0
026	8/16/2018 08:58:15	0.0	0.0	0.0	0.0	0.0
027	8/16/2018 08:59:15	0.0	0.0	0.0	0.0	0.0
028	8/16/2018 09:00:15	0.0	0.0	0.0	0.0	0.0

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029	8/16/2018	09:01:15	0.0	0.0	0.0	0.0
030	8/16/2018	09:02:15	0.0	0.0	0.0	0.0
031	8/16/2018	09:03:15	0.0	0.0	0.0	0.0
032	8/16/2018	09:04:15	0.0	0.0	0.0	0.0
033	8/16/2018	09:05:15	0.0	0.0	0.0	0.0
034	8/16/2018	09:06:15	0.0	0.0	0.0	0.0
035	8/16/2018	09:07:15	0.0	0.0	0.0	0.0
036	8/16/2018	09:08:15	0.0	0.0	0.0	0.0
037	8/16/2018	09:09:15	0.0	0.0	0.0	0.0
038	8/16/2018	09:10:15	0.0	0.0	0.0	0.0
039	8/16/2018	09:11:15	0.0	0.0	0.0	0.0
040	8/16/2018	09:12:15	0.0	0.0	0.0	0.0
041	8/16/2018	09:13:15	0.0	0.0	0.0	0.0
042	8/16/2018	09:14:15	0.0	0.0	0.0	0.0
043	8/16/2018	09:15:15	0.0	0.0	0.0	0.0
044	8/16/2018	09:16:15	0.0	0.0	0.0	0.0
045	8/16/2018	09:17:15	0.0	0.0	0.0	0.0
046	8/16/2018	09:18:15	0.0	0.0	0.0	0.0
047	8/16/2018	09:19:15	0.0	0.0	0.0	0.0
048	8/16/2018	09:20:15	0.0	0.0	0.0	0.0
049	8/16/2018	09:21:15	0.0	0.0	0.0	0.0
050	8/16/2018	09:22:15	0.0	0.0	0.0	0.0
051	8/16/2018	09:23:15	0.0	0.0	0.0	0.0
052	8/16/2018	09:24:15	0.0	0.0	0.0	0.0
053	8/16/2018	09:25:15	0.0	0.0	0.0	0.0
054	8/16/2018	09:26:15	0.0	0.0	0.0	0.0
055	8/16/2018	09:27:15	0.0	0.0	0.0	0.0
056	8/16/2018	09:28:15	0.0	0.0	0.0	0.0
057	8/16/2018	09:29:15	0.0	0.0	0.0	0.0
058	8/16/2018	09:30:15	0.0	0.0	0.0	0.0
059	8/16/2018	09:31:15	0.0	0.0	0.0	0.0
060	8/16/2018	09:32:15	0.0	0.0	0.0	0.0
061	8/16/2018	09:33:15	0.0	0.0	0.0	0.0
062	8/16/2018	09:34:15	0.0	0.0	0.0	0.0
063	8/16/2018	09:35:15	0.0	0.0	0.0	0.0
064	8/16/2018	09:36:15	0.0	0.0	0.0	0.0
065	8/16/2018	09:37:15	0.0	0.0	0.0	0.0
066	8/16/2018	09:38:15	0.0	0.0	0.0	0.0
067	8/16/2018	09:39:15	0.0	0.0	0.0	0.0
068	8/16/2018	09:40:15	0.0	0.0	0.0	0.0
069	8/16/2018	09:41:15	0.0	0.0	0.0	0.0
070	8/16/2018	09:42:15	0.0	0.0	0.0	0.0
071	8/16/2018	09:43:15	0.0	0.0	0.0	0.0
072	8/16/2018	09:44:15	0.0	0.0	0.0	0.0
073	8/16/2018	09:45:15	0.0	0.0	0.0	0.0
074	8/16/2018	09:46:15	0.0	0.0	0.0	0.0
075	8/16/2018	09:47:15	0.0	0.0	0.0	0.0
076	8/16/2018	09:48:15	0.0	0.0	0.0	0.0

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077	8/16/2018	09:49:15	0.0	0.0	0.0	0.0
078	8/16/2018	09:50:15	0.0	0.0	0.0	0.0
079	8/16/2018	09:51:15	0.0	0.0	0.0	0.0
080	8/16/2018	09:52:15	0.0	0.0	0.0	0.0
081	8/16/2018	09:53:15	0.0	0.0	0.0	0.0
082	8/16/2018	09:54:15	0.0	0.0	0.0	0.0
083	8/16/2018	09:55:15	0.0	0.0	0.0	0.0
084	8/16/2018	09:56:15	0.0	0.0	0.0	0.0
085	8/16/2018	09:57:15	0.0	0.0	0.0	0.0
086	8/16/2018	09:58:15	0.0	0.0	0.0	0.0
087	8/16/2018	09:59:15	0.0	0.0	0.0	0.0
088	8/16/2018	10:00:15	0.0	0.0	0.0	0.0
089	8/16/2018	10:01:15	0.0	0.0	0.0	0.0
090	8/16/2018	10:02:15	0.0	0.0	0.0	0.0
091	8/16/2018	10:03:15	0.0	0.0	0.0	0.0
092	8/16/2018	10:04:15	0.0	0.0	0.0	0.0
093	8/16/2018	10:05:15	0.0	0.0	0.0	0.0
094	8/16/2018	10:06:15	0.0	0.0	0.0	0.0
095	8/16/2018	10:07:15	0.0	0.0	0.0	0.0
096	8/16/2018	10:08:15	0.0	0.0	0.0	0.0
097	8/16/2018	10:09:15	0.0	0.0	0.0	0.0
098	8/16/2018	10:10:15	0.0	0.0	0.0	0.0
099	8/16/2018	10:11:15	0.0	0.0	0.0	0.0
100	8/16/2018	10:12:15	0.0	0.0	0.0	0.0
101	8/16/2018	10:13:15	0.0	0.0	0.0	0.0
102	8/16/2018	10:14:15	0.0	0.0	0.0	0.0
103	8/16/2018	10:15:15	0.0	0.0	0.0	0.0
104	8/16/2018	10:16:15	0.0	0.0	0.0	0.0
105	8/16/2018	10:17:15	0.0	0.0	0.0	0.0
106	8/16/2018	10:18:15	0.0	0.0	0.0	0.0
107	8/16/2018	10:19:15	0.0	0.0	0.0	0.0
108	8/16/2018	10:20:15	0.0	0.0	0.0	0.0
109	8/16/2018	10:21:15	0.0	0.0	0.0	0.0
110	8/16/2018	10:22:15	0.0	0.0	0.0	0.0
111	8/16/2018	10:23:15	0.0	0.0	0.0	0.0
112	8/16/2018	10:24:15	0.0	0.0	0.0	0.0
113	8/16/2018	10:25:15	0.0	0.0	0.0	0.0
114	8/16/2018	10:26:15	0.0	0.0	0.0	0.0
115	8/16/2018	10:27:15	0.0	0.0	0.0	0.0
116	8/16/2018	10:28:15	0.0	0.0	0.0	0.0
117	8/16/2018	10:29:15	0.0	0.0	0.0	0.0
118	8/16/2018	10:30:15	0.0	0.0	0.0	0.0
119	8/16/2018	10:31:15	0.0	0.0	0.0	0.0
120	8/16/2018	10:32:15	0.0	0.0	0.0	0.0
121	8/16/2018	10:33:15	0.0	0.0	0.0	0.0
122	8/16/2018	10:34:15	0.0	0.0	0.0	0.0
123	8/16/2018	10:35:15	0.0	0.0	0.0	0.0
124	8/16/2018	10:36:15	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

125	8/16/2018	10:37:15	0.0	0.0	0.0	0.0
126	8/16/2018	10:38:15	0.0	0.0	0.0	0.0
127	8/16/2018	10:39:15	0.0	0.0	0.0	0.0
128	8/16/2018	10:40:15	0.0	0.0	0.0	0.0
129	8/16/2018	10:41:15	0.0	0.0	0.0	0.0
130	8/16/2018	10:42:15	0.0	0.0	0.0	0.0
131	8/16/2018	10:43:15	0.0	0.0	0.0	0.0
132	8/16/2018	10:44:15	0.0	0.0	0.0	0.0
133	8/16/2018	10:45:15	0.0	0.0	0.0	0.0
134	8/16/2018	10:46:15	0.0	0.0	0.0	0.0
135	8/16/2018	10:47:15	0.0	0.0	0.0	0.0
136	8/16/2018	10:48:15	0.0	0.0	0.0	0.0
137	8/16/2018	10:49:15	0.0	0.0	0.0	0.0
138	8/16/2018	10:50:15	0.0	0.0	0.0	0.0
139	8/16/2018	10:51:15	0.0	0.0	0.0	0.0
140	8/16/2018	10:52:15	0.0	0.0	0.0	0.0
141	8/16/2018	10:53:15	0.0	0.0	0.0	0.0
142	8/16/2018	10:54:15	0.0	0.0	0.0	0.0
143	8/16/2018	10:55:15	0.0	0.0	0.0	0.0
144	8/16/2018	10:56:15	0.0	0.0	0.0	0.0
145	8/16/2018	10:57:15	0.0	0.0	0.0	0.0
146	8/16/2018	10:58:15	0.0	0.0	0.0	0.0
147	8/16/2018	10:59:15	0.0	0.0	0.0	0.0
148	8/16/2018	11:00:15	0.0	0.0	0.0	0.0
149	8/16/2018	11:01:15	0.0	0.0	0.0	0.0
150	8/16/2018	11:02:15	0.0	0.0	0.0	0.0
151	8/16/2018	11:03:15	0.0	0.0	0.0	0.0
152	8/16/2018	11:04:15	0.0	0.0	0.0	0.0
153	8/16/2018	11:05:15	0.0	0.0	0.0	0.0
154	8/16/2018	11:06:15	0.0	0.0	0.0	0.0
155	8/16/2018	11:07:15	0.0	0.0	0.0	0.0
156	8/16/2018	11:08:15	0.0	0.0	0.0	0.0
157	8/16/2018	11:09:15	0.0	0.0	0.0	0.0
158	8/16/2018	11:10:15	0.0	0.0	0.0	0.0
159	8/16/2018	11:11:15	0.0	0.0	0.0	0.0
160	8/16/2018	11:12:15	0.0	0.0	0.0	0.0
161	8/16/2018	11:13:15	0.0	0.0	0.0	0.0
162	8/16/2018	11:14:15	0.0	0.0	0.0	0.0
163	8/16/2018	11:15:15	0.0	0.0	0.0	0.0
164	8/16/2018	11:16:15	0.0	0.0	0.0	0.0
165	8/16/2018	11:17:15	0.0	0.0	0.0	0.0
166	8/16/2018	11:18:15	0.0	0.0	0.0	0.0
167	8/16/2018	11:19:15	0.0	0.0	0.0	0.0
168	8/16/2018	11:20:15	0.0	0.0	0.0	0.0
169	8/16/2018	11:21:15	0.0	0.0	0.0	0.0
170	8/16/2018	11:22:15	0.0	0.0	0.0	0.0
171	8/16/2018	11:23:15	0.0	0.0	0.0	0.0
172	8/16/2018	11:24:15	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

173	8/16/2018	11:25:15	0.0	0.0	0.0	0.0
174	8/16/2018	11:26:15	0.0	0.0	0.0	0.0
175	8/16/2018	11:27:15	0.0	0.0	0.0	0.0
176	8/16/2018	11:28:15	0.0	0.0	0.0	0.0
177	8/16/2018	11:29:15	0.0	0.0	0.0	0.0
178	8/16/2018	11:30:15	0.0	0.0	0.0	0.0
179	8/16/2018	11:31:15	0.0	0.0	0.0	0.0
180	8/16/2018	11:32:15	0.0	0.0	0.0	0.0
181	8/16/2018	11:33:15	0.0	0.0	0.0	0.0
182	8/16/2018	11:34:15	0.0	0.0	0.0	0.0
183	8/16/2018	11:35:15	0.0	0.0	0.0	0.0
184	8/16/2018	11:36:15	0.0	0.0	0.0	0.0
185	8/16/2018	11:37:15	0.0	0.0	0.0	0.0
186	8/16/2018	11:38:15	0.0	0.0	0.0	0.0
187	8/16/2018	11:39:15	0.0	0.0	0.0	0.0
188	8/16/2018	11:40:15	0.0	0.0	0.0	0.0
189	8/16/2018	11:41:15	0.0	0.0	0.0	0.0
190	8/16/2018	11:42:15	0.0	0.0	0.0	0.0
191	8/16/2018	11:43:15	0.0	0.0	0.0	0.0
192	8/16/2018	11:44:15	0.0	0.0	0.0	0.0
193	8/16/2018	11:45:15	0.0	0.0	0.0	0.0
194	8/16/2018	11:46:15	0.0	0.0	0.0	0.0
195	8/16/2018	11:47:15	0.0	0.0	0.0	0.0
196	8/16/2018	11:48:15	0.0	0.0	0.0	0.0
197	8/16/2018	11:49:15	0.0	0.0	0.0	0.0
198	8/16/2018	11:50:15	0.0	0.0	0.0	0.0
199	8/16/2018	11:51:15	0.0	0.0	0.0	0.0
200	8/16/2018	11:52:15	0.0	0.0	0.0	0.0
201	8/16/2018	11:53:15	0.0	0.0	0.0	0.0
202	8/16/2018	11:54:15	0.0	0.0	0.0	0.0
203	8/16/2018	11:55:15	0.0	0.0	0.0	0.0
204	8/16/2018	11:56:15	0.0	0.0	0.0	0.0
205	8/16/2018	11:57:15	0.0	0.0	0.0	0.0
206	8/16/2018	11:58:15	0.0	0.0	0.0	0.0
207	8/16/2018	11:59:15	0.0	0.0	0.0	0.0
208	8/16/2018	12:00:15	0.0	0.0	0.0	0.0
209	8/16/2018	12:01:15	0.0	0.0	0.0	0.0
210	8/16/2018	12:02:15	0.0	0.0	0.0	0.0
211	8/16/2018	12:03:15	0.0	0.0	0.0	0.0
212	8/16/2018	12:04:15	0.0	0.0	0.0	0.0
213	8/16/2018	12:05:15	0.0	0.0	0.0	0.0
214	8/16/2018	12:06:15	0.0	0.0	0.0	0.0
215	8/16/2018	12:07:15	0.0	0.0	0.0	0.0
216	8/16/2018	12:08:15	0.0	0.0	0.0	0.0
217	8/16/2018	12:09:15	0.0	0.0	0.0	0.0
218	8/16/2018	12:10:15	0.0	0.0	0.0	0.0
219	8/16/2018	12:11:15	0.0	0.0	0.0	0.0
220	8/16/2018	12:12:15	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

221	8/16/2018	12:13:15	0.0	0.0	0.0	0.0
222	8/16/2018	12:14:15	0.0	0.0	0.0	0.0
223	8/16/2018	12:15:15	0.0	0.0	0.0	0.0
224	8/16/2018	12:16:15	0.0	0.0	0.0	0.0
225	8/16/2018	12:17:15	0.0	0.0	0.0	0.0
226	8/16/2018	12:18:15	0.0	0.0	0.0	0.0
227	8/16/2018	12:19:15	0.0	0.0	0.0	0.0
228	8/16/2018	12:20:15	0.0	0.0	0.0	0.0
229	8/16/2018	12:21:15	0.0	0.0	0.0	0.0
230	8/16/2018	12:22:15	0.0	0.0	0.0	0.0
231	8/16/2018	12:23:15	0.0	0.0	0.0	0.0
232	8/16/2018	12:24:15	0.0	0.0	0.0	0.0
233	8/16/2018	12:25:15	0.0	0.0	0.0	0.0
234	8/16/2018	12:26:15	0.0	0.0	0.0	0.0
235	8/16/2018	12:27:15	0.0	0.0	0.0	0.0
236	8/16/2018	12:28:15	0.0	0.0	0.0	0.0
237	8/16/2018	12:29:15	0.0	0.0	0.0	0.0
238	8/16/2018	12:30:15	0.0	0.0	0.0	0.0
239	8/16/2018	12:31:15	0.0	0.0	0.0	0.0
240	8/16/2018	12:32:15	0.0	0.0	0.0	0.0
241	8/16/2018	12:33:15	0.0	0.0	0.0	0.0
242	8/16/2018	12:34:15	0.0	0.0	0.0	0.0
243	8/16/2018	12:35:15	0.0	0.0	0.0	0.0
244	8/16/2018	12:36:15	0.0	0.0	0.0	0.0
245	8/16/2018	12:37:15	0.0	0.0	0.0	0.0
246	8/16/2018	12:38:15	0.0	0.0	0.0	0.0
247	8/16/2018	12:39:15	0.0	0.0	0.0	0.0
248	8/16/2018	12:40:15	0.0	0.0	0.0	0.0
249	8/16/2018	12:41:15	0.0	0.0	0.0	0.0
250	8/16/2018	12:42:15	0.0	0.0	0.0	0.0
251	8/16/2018	12:43:15	0.0	0.0	0.0	0.0
252	8/16/2018	12:44:15	0.0	0.0	0.0	0.0
253	8/16/2018	12:45:15	0.0	0.0	0.0	0.0
254	8/16/2018	12:46:15	0.0	0.0	0.0	0.0
255	8/16/2018	12:47:15	0.0	0.0	0.0	0.0
256	8/16/2018	12:48:15	0.0	0.0	0.0	0.0
257	8/16/2018	12:49:15	0.0	0.0	0.0	0.0
258	8/16/2018	12:50:15	0.0	0.0	0.0	0.0
259	8/16/2018	12:51:15	0.0	0.0	0.0	0.0
260	8/16/2018	12:52:15	0.0	0.0	0.0	0.0
261	8/16/2018	12:53:15	0.0	0.0	0.0	0.0
262	8/16/2018	12:54:15	0.0	0.0	0.0	0.0
263	8/16/2018	12:55:15	0.0	0.0	0.0	0.0
264	8/16/2018	12:56:15	0.0	0.0	0.0	0.0
265	8/16/2018	12:57:15	0.0	0.0	0.0	0.0
266	8/16/2018	12:58:15	0.0	0.0	0.0	0.0
267	8/16/2018	12:59:15	0.0	0.0	0.0	0.0
268	8/16/2018	13:00:15	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

269	8/16/2018	13:01:15	0.0	0.0	0.0	0.0
270	8/16/2018	13:02:15	0.0	0.0	0.0	0.0
271	8/16/2018	13:03:15	0.0	0.0	0.0	0.0
272	8/16/2018	13:04:15	0.0	0.0	0.0	0.0
273	8/16/2018	13:05:15	0.0	0.0	0.0	0.0
274	8/16/2018	13:06:15	0.0	0.0	0.0	0.0
275	8/16/2018	13:07:15	0.0	0.0	0.0	0.0
276	8/16/2018	13:08:15	0.0	0.0	0.0	0.0
277	8/16/2018	13:09:15	0.0	0.0	0.0	0.0
278	8/16/2018	13:10:15	0.0	0.0	0.0	0.0
279	8/16/2018	13:11:15	0.0	0.0	0.0	0.0
280	8/16/2018	13:12:15	0.0	0.0	0.0	0.0
281	8/16/2018	13:13:15	0.0	0.0	0.0	0.0
282	8/16/2018	13:14:15	0.0	0.0	0.0	0.0
283	8/16/2018	13:15:15	0.0	0.0	0.0	0.0
284	8/16/2018	13:16:15	0.0	0.0	0.0	0.0
285	8/16/2018	13:17:15	0.0	0.0	0.0	0.0
286	8/16/2018	13:18:15	0.0	0.0	0.0	0.0
287	8/16/2018	13:19:15	0.0	0.0	0.0	0.0
288	8/16/2018	13:20:15	0.0	0.0	0.0	0.0
289	8/16/2018	13:21:15	0.0	0.0	0.0	0.0
290	8/16/2018	13:22:15	0.0	0.0	0.0	0.0
291	8/16/2018	13:23:15	0.0	0.0	0.0	0.0
292	8/16/2018	13:24:15	0.0	0.0	0.0	0.0
293	8/16/2018	13:25:15	0.0	0.0	0.0	0.0
294	8/16/2018	13:26:15	0.0	0.0	0.0	0.0
295	8/16/2018	13:27:15	0.0	0.0	0.0	0.0
296	8/16/2018	13:28:15	0.0	0.0	0.0	0.0
297	8/16/2018	13:29:15	0.0	0.0	0.0	0.0
298	8/16/2018	13:30:15	0.0	0.0	0.0	0.0
299	8/16/2018	13:31:15	0.0	0.0	0.0	0.0
300	8/16/2018	13:32:15	0.0	0.0	0.0	0.0
301	8/16/2018	13:33:15	0.0	0.0	0.0	0.0
302	8/16/2018	13:34:15	0.0	0.0	0.0	0.0
303	8/16/2018	13:35:15	0.0	0.0	0.0	0.0
304	8/16/2018	13:36:15	0.0	0.0	0.0	0.0
305	8/16/2018	13:37:15	0.0	0.0	0.0	0.0
306	8/16/2018	13:38:15	0.0	0.0	0.0	0.0
307	8/16/2018	13:39:15	0.0	0.0	0.0	0.0
308	8/16/2018	13:40:15	0.0	0.0	0.0	0.0
309	8/16/2018	13:41:15	0.0	0.0	0.0	0.0
310	8/16/2018	13:42:15	0.0	0.0	0.0	0.0
311	8/16/2018	13:43:15	0.0	0.0	0.0	0.0
312	8/16/2018	13:44:15	0.0	0.0	0.0	0.0
313	8/16/2018	13:45:15	0.0	0.0	0.0	0.0
314	8/16/2018	13:46:15	0.0	0.0	0.0	0.0
315	8/16/2018	13:47:15	0.0	0.0	0.0	0.0
316	8/16/2018	13:48:15	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

317	8/16/2018	13:49:15	0.0	0.0	0.0	0.0
318	8/16/2018	13:50:15	0.0	0.0	0.0	0.0
319	8/16/2018	13:51:15	0.0	0.0	0.0	0.0
320	8/16/2018	13:52:15	0.0	0.0	0.0	0.0
321	8/16/2018	13:53:15	0.0	0.0	0.0	0.0
322	8/16/2018	13:54:15	0.0	0.0	0.0	0.0
323	8/16/2018	13:55:15	0.0	0.0	0.0	0.0
324	8/16/2018	13:56:15	0.0	0.0	0.0	0.0
325	8/16/2018	13:57:15	0.0	0.0	0.0	0.0
326	8/16/2018	13:58:15	0.0	0.0	0.0	0.0
327	8/16/2018	13:59:15	0.0	0.0	0.0	0.0
328	8/16/2018	14:00:15	0.0	0.0	0.0	0.0
329	8/16/2018	14:01:15	0.0	0.0	0.0	0.0
330	8/16/2018	14:02:15	0.0	0.0	0.0	0.0
331	8/16/2018	14:03:15	0.0	0.0	0.0	0.0
332	8/16/2018	14:04:15	0.0	0.0	0.0	0.0
333	8/16/2018	14:05:15	0.0	0.0	0.0	0.0
334	8/16/2018	14:06:15	0.0	0.0	0.0	0.0
335	8/16/2018	14:07:15	0.0	0.0	0.0	0.0
336	8/16/2018	14:08:15	0.0	0.0	0.0	0.0
337	8/16/2018	14:09:15	0.0	0.0	0.0	0.0
338	8/16/2018	14:10:15	0.0	0.0	0.0	0.0
339	8/16/2018	14:11:15	0.0	0.0	0.0	0.0
340	8/16/2018	14:12:15	0.0	0.0	0.0	0.0
341	8/16/2018	14:13:15	0.0	0.0	0.0	0.0
342	8/16/2018	14:14:15	0.0	0.0	0.0	0.0
343	8/16/2018	14:15:15	0.0	0.0	0.0	0.0
344	8/16/2018	14:16:15	0.0	0.0	0.0	0.0
345	8/16/2018	14:17:15	0.0	0.0	0.0	0.0
346	8/16/2018	14:18:15	0.0	0.0	0.0	0.0
347	8/16/2018	14:19:15	0.0	0.0	0.0	0.0
348	8/16/2018	14:20:15	0.0	0.0	0.0	0.0
349	8/16/2018	14:21:15	0.0	0.0	0.0	0.0
350	8/16/2018	14:22:15	0.0	0.0	0.0	0.0
351	8/16/2018	14:23:15	0.0	0.0	0.0	0.0
352	8/16/2018	14:24:15	0.0	0.0	0.0	0.0
353	8/16/2018	14:25:15	0.0	0.0	0.0	0.0
354	8/16/2018	14:26:15	0.0	0.0	0.0	0.0
355	8/16/2018	14:27:15	0.0	0.0	0.0	0.0
356	8/16/2018	14:28:15	0.0	0.0	0.0	0.0
357	8/16/2018	14:29:15	0.0	0.0	0.0	0.0
358	8/16/2018	14:30:15	0.0	0.0	0.0	0.0
359	8/16/2018	14:31:15	0.0	0.0	0.0	0.0
360	8/16/2018	14:32:15	0.0	0.0	0.0	0.0
361	8/16/2018	14:33:15	0.0	0.0	0.0	0.0
362	8/16/2018	14:34:15	0.0	0.0	0.0	0.0
363	8/16/2018	14:35:15	0.0	0.0	0.0	0.0
364	8/16/2018	14:36:15	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

365	8/16/2018	14:37:15	0.0	0.0	0.0	0.0
366	8/16/2018	14:38:15	0.0	0.0	0.0	0.0
367	8/16/2018	14:39:15	0.0	0.0	0.0	0.0
368	8/16/2018	14:40:15	0.0	0.0	0.0	0.0
369	8/16/2018	14:41:15	0.0	0.0	0.0	0.0
370	8/16/2018	14:42:15	0.0	0.0	0.0	0.0
371	8/16/2018	14:43:15	0.0	0.0	0.0	0.0
372	8/16/2018	14:44:15	0.0	0.0	0.0	0.0
373	8/16/2018	14:45:15	0.0	0.0	0.0	0.0
374	8/16/2018	14:46:15	0.0	0.0	0.0	0.0
375	8/16/2018	14:47:15	0.0	0.0	0.0	0.0
376	8/16/2018	14:48:15	0.0	0.0	0.0	0.0
377	8/16/2018	14:49:15	0.0	0.0	0.0	0.0
378	8/16/2018	14:50:15	0.0	0.0	0.0	0.0
379	8/16/2018	14:51:15	0.0	0.0	0.0	0.0
380	8/16/2018	14:52:15	0.0	0.0	0.0	0.0
381	8/16/2018	14:53:15	0.0	0.0	0.0	0.0
382	8/16/2018	14:54:15	0.0	0.0	0.0	0.0
383	8/16/2018	14:55:15	0.0	0.0	0.0	0.0
384	8/16/2018	14:56:15	0.0	0.0	0.0	0.0
385	8/16/2018	14:57:15	0.0	0.0	0.0	0.0
386	8/16/2018	14:58:15	0.0	0.0	0.0	0.0
387	8/16/2018	14:59:15	0.0	0.0	0.0	0.0
388	8/16/2018	15:00:15	0.0	0.0	0.0	0.0
389	8/16/2018	15:01:15	0.0	0.0	0.0	0.0
390	8/16/2018	15:02:15	0.0	0.0	0.0	0.0
391	8/16/2018	15:03:15	0.0	0.0	0.0	0.0
392	8/16/2018	15:04:15	0.0	0.0	0.0	0.0
393	8/16/2018	15:05:15	0.0	0.0	0.0	0.0
394	8/16/2018	15:06:15	0.0	0.0	0.0	0.0
395	8/16/2018	15:07:15	0.0	0.0	0.0	0.0
396	8/16/2018	15:08:15	0.0	0.0	0.0	0.0
397	8/16/2018	15:09:15	0.0	0.0	0.0	0.0
398	8/16/2018	15:10:15	0.0	0.0	0.0	0.0
399	8/16/2018	15:11:15	0.0	0.0	0.0	0.0
400	8/16/2018	15:12:15	0.0	0.0	0.0	0.0
401	8/16/2018	15:13:15	0.0	0.0	0.0	0.0
402	8/16/2018	15:14:15	0.0	0.0	0.0	0.0
403	8/16/2018	15:15:15	0.0	0.0	0.0	0.0
404	8/16/2018	15:16:15	0.0	0.0	0.0	0.0
405	8/16/2018	15:17:15	0.0	0.0	0.0	0.0
406	8/16/2018	15:18:15	0.0	0.0	0.0	0.0
407	8/16/2018	15:19:15	0.0	0.0	0.0	0.0
408	8/16/2018	15:20:15	0.0	0.0	0.0	0.0
409	8/16/2018	15:21:15	0.0	0.0	0.0	0.0
410	8/16/2018	15:22:15	0.0	0.0	0.0	0.0
411	8/16/2018	15:23:15	0.0	0.0	0.0	0.0
412	8/16/2018	15:24:15	0.0	0.0	0.0	0.0

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413	8/16/2018	15:25:15	0.0	0.0	0.0	0.0
414	8/16/2018	15:26:15	0.0	0.0	0.0	0.0
415	8/16/2018	15:27:15	0.0	0.0	0.0	0.0
416	8/16/2018	15:28:15	0.0	0.0	0.0	0.0
417	8/16/2018	15:29:15	0.0	0.0	0.0	0.0
418	8/16/2018	15:30:15	0.0	0.0	0.0	0.0
419	8/16/2018	15:31:15	0.0	0.0	0.0	0.0
420	8/16/2018	15:32:15	0.0	0.0	0.0	0.0
421	8/16/2018	15:33:15	0.0	0.0	0.0	0.0
422	8/16/2018	15:34:15	0.0	0.0	0.0	0.0
423	8/16/2018	15:35:15	0.0	0.0	0.0	0.0
424	8/16/2018	15:36:15	0.0	0.0	0.0	0.0
425	8/16/2018	15:37:15	0.0	0.0	0.0	0.0
426	8/16/2018	15:38:15	0.0	0.0	0.0	0.0
427	8/16/2018	15:39:15	0.0	0.0	0.0	0.0
428	8/16/2018	15:40:15	0.0	0.0	0.0	0.0
429	8/16/2018	15:41:15	0.0	0.0	0.0	0.0
430	8/16/2018	15:42:15	0.0	0.0	0.0	0.0
431	8/16/2018	15:43:15	0.0	0.0	0.0	0.0
432	8/16/2018	15:44:15	0.0	0.0	0.0	0.0
433	8/16/2018	15:45:15	0.0	0.0	0.0	0.0
434	8/16/2018	15:46:15	0.0	0.0	0.0	0.0
435	8/16/2018	15:47:15	0.0	0.0	0.0	0.0
436	8/16/2018	15:48:15	0.0	0.0	0.0	0.0
437	8/16/2018	15:49:15	0.0	0.0	0.0	0.0
438	8/16/2018	15:50:15	0.0	0.0	0.0	0.0
439	8/16/2018	15:51:15	0.0	0.0	0.0	0.0
440	8/16/2018	15:52:15	0.0	0.0	0.0	0.0
441	8/16/2018	15:53:15	0.0	0.0	0.0	0.0
442	8/16/2018	15:54:15	0.0	0.0	0.0	0.0
443	8/16/2018	15:55:15	0.0	0.0	0.0	0.0
444	8/16/2018	15:56:15	0.0	0.0	0.0	0.0
445	8/16/2018	15:57:15	0.0	0.1	1.0	0.0
446	8/16/2018	15:58:15	0.0	0.0	0.0	0.0
447	8/16/2018	15:59:15	0.0	0.0	0.0	0.0
448	8/16/2018	16:00:15	0.0	0.0	0.0	0.0
449	8/16/2018	16:01:15	0.0	0.0	0.0	0.0
450	8/16/2018	16:02:15	0.0	0.0	0.0	0.0
451	8/16/2018	16:03:15	0.0	0.0	0.0	0.0
452	8/16/2018	16:04:15	0.0	0.0	0.0	0.0
453	8/16/2018	16:05:15	0.0	0.0	0.0	0.0
454	8/16/2018	16:06:15	0.0	0.0	0.0	0.0
455	8/16/2018	16:07:15	0.0	0.0	0.0	0.0
456	8/16/2018	16:08:15	0.0	0.0	0.0	0.0
457	8/16/2018	16:09:15	0.0	0.0	0.0	0.0
458	8/16/2018	16:10:15	0.0	0.0	0.0	0.0
459	8/16/2018	16:11:15	0.0	0.0	0.0	0.0
460	8/16/2018	16:12:15	0.0	0.0	0.0	0.0

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461	8/16/2018	16:13:15	0.0	0.0	0.0	0.0
462	8/16/2018	16:14:15	0.0	0.0	0.0	0.0
463	8/16/2018	16:15:15	0.0	0.0	0.0	0.0
464	8/16/2018	16:16:15	0.0	0.0	0.0	0.0
465	8/16/2018	16:17:15	0.0	0.0	0.0	0.0
466	8/16/2018	16:18:15	0.0	0.0	0.0	0.0
467	8/16/2018	16:19:15	0.0	0.0	0.0	0.0
468	8/16/2018	16:20:15	0.0	0.0	0.0	0.0
469	8/16/2018	16:21:15	0.0	0.0	0.0	0.0
470	8/16/2018	16:22:15	0.0	0.0	0.0	0.0
471	8/16/2018	16:23:15	0.0	0.0	0.0	0.0
472	8/16/2018	16:24:15	0.0	0.0	0.0	0.0
473	8/16/2018	16:25:15	0.0	0.0	0.0	0.0
474	8/16/2018	16:26:15	0.0	0.0	0.0	0.0
475	8/16/2018	16:27:15	0.0	0.0	0.0	0.0
476	8/16/2018	16:28:15	0.0	0.0	0.0	0.0
477	8/16/2018	16:29:15	0.0	0.0	0.0	0.0
478	8/16/2018	16:30:15	0.0	0.0	0.0	0.0
479	8/16/2018	16:31:15	0.0	0.0	0.0	0.0
480	8/16/2018	16:32:15	0.0	0.0	0.0	0.0
481	8/16/2018	16:33:15	0.0	0.0	0.0	0.0
482	8/16/2018	16:34:15	0.0	0.0	0.0	0.0
483	8/16/2018	16:35:15	0.0	0.0	0.0	0.0
484	8/16/2018	16:36:15	0.0	0.0	0.0	0.0
485	8/16/2018	16:37:15	0.0	0.0	0.0	0.0
486	8/16/2018	16:38:15	0.0	0.0	0.0	0.0
487	8/16/2018	16:39:15	0.0	0.0	0.0	0.0
488	8/16/2018	16:40:15	0.0	0.0	0.0	0.0
489	8/16/2018	16:41:15	0.0	0.0	0.0	0.0
490	8/16/2018	16:42:15	0.0	0.0	0.0	0.0
491	8/16/2018	16:43:15	0.0	0.0	0.0	0.0
492	8/16/2018	16:44:15	0.0	0.0	0.0	0.0
493	8/16/2018	16:45:15	0.0	0.0	0.0	0.0
494	8/16/2018	16:46:15	0.0	0.0	0.0	0.0
495	8/16/2018	16:47:15	0.0	0.0	0.0	0.0
496	8/16/2018	16:48:15	0.0	0.0	0.0	0.0
497	8/16/2018	16:49:15	0.0	0.0	0.0	0.0
498	8/16/2018	16:50:15	0.0	0.0	0.0	0.0
499	8/16/2018	16:51:15	0.0	0.0	0.0	0.0
500	8/16/2018	16:52:15	0.0	0.0	0.0	0.0
501	8/16/2018	16:53:15	0.0	0.0	0.0	0.0
502	8/16/2018	16:54:15	0.0	0.0	0.0	0.0
503	8/16/2018	16:55:15	0.0	0.0	0.0	0.0
504	8/16/2018	16:56:15	0.0	0.0	0.0	0.0
505	8/16/2018	16:57:15	0.0	0.0	0.0	0.0
506	8/16/2018	16:58:15	0.0	0.0	0.0	0.0
507	8/16/2018	16:59:15	0.0	0.0	0.0	0.0
508	8/16/2018	17:00:15	0.0	0.0	0.0	0.0

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509	8/16/2018	17:01:15	0.0	0.0	0.0	0.0
510	8/16/2018	17:02:15	0.0	0.0	0.0	0.0
511	8/16/2018	17:03:15	0.0	0.0	0.0	0.0
512	8/16/2018	17:04:15	0.0	0.0	0.0	0.0
513	8/16/2018	17:05:15	0.0	0.0	0.0	0.0
514	8/16/2018	17:06:15	0.0	0.0	0.0	0.0
515	8/16/2018	17:07:15	0.0	0.0	0.0	0.0
516	8/16/2018	17:08:15	0.0	0.0	0.0	0.0
517	8/16/2018	17:09:15	0.0	0.0	0.0	0.0
518	8/16/2018	17:10:15	0.0	0.0	0.0	0.0
519	8/16/2018	17:11:15	0.0	0.0	0.0	0.0
520	8/16/2018	17:12:15	0.0	0.0	0.0	0.0
521	8/16/2018	17:13:15	0.0	0.0	0.0	0.0
522	8/16/2018	17:14:15	0.0	0.0	0.0	0.0
523	8/16/2018	17:15:15	0.0	0.0	0.0	0.0
524	8/16/2018	17:16:15	0.0	0.0	0.0	0.0
525	8/16/2018	17:17:15	0.0	0.0	0.0	0.0
526	8/16/2018	17:18:15	0.0	0.0	0.0	0.0
527	8/16/2018	17:19:15	0.0	0.0	0.0	0.0
528	8/16/2018	17:20:15	0.0	0.0	0.0	0.0
529	8/16/2018	17:21:15	0.0	0.0	0.0	0.0
530	8/16/2018	17:22:15	0.0	0.0	0.0	0.0
531	8/16/2018	17:23:15	0.0	0.0	0.0	0.0
532	8/16/2018	17:24:15	0.0	0.0	0.0	0.0
533	8/16/2018	17:25:15	0.0	0.0	0.0	0.0
534	8/16/2018	17:26:15	0.0	0.0	0.0	0.0
535	8/16/2018	17:27:15	0.0	0.0	0.0	0.0
536	8/16/2018	17:28:15	0.0	0.0	0.0	0.0
537	8/16/2018	17:29:15	0.0	0.0	0.0	0.0
538	8/16/2018	17:30:15	0.0	0.0	0.0	0.0
539	8/16/2018	17:31:15	0.0	0.0	0.0	0.0
540	8/16/2018	17:32:15	0.0	0.0	0.0	0.0
541	8/16/2018	17:33:15	0.0	0.0	0.0	0.0
542	8/16/2018	17:34:15	0.0	0.0	0.0	0.0
543	8/16/2018	17:35:15	0.0	0.0	0.0	0.0
544	8/16/2018	17:36:15	0.0	0.0	0.0	0.0
545	8/16/2018	17:37:15	0.0	0.0	0.0	0.0
546	8/16/2018	17:38:15	0.0	0.0	0.0	0.0
547	8/16/2018	17:39:15	0.0	0.0	0.0	0.0
548	8/16/2018	17:40:15	0.0	0.0	0.0	0.0
549	8/16/2018	17:41:15	0.0	0.0	0.0	0.0
550	8/16/2018	17:42:15	0.0	0.0	0.0	0.0
551	8/16/2018	17:43:15	0.0	0.0	0.0	0.0
552	8/16/2018	17:44:15	0.0	0.0	0.0	0.0
553	8/16/2018	17:45:15	0.0	0.0	0.0	0.0
554	8/16/2018	17:46:15	0.0	0.0	0.0	0.0
555	8/16/2018	17:47:15	0.0	0.0	0.0	0.0
556	8/16/2018	17:48:15	0.0	0.0	0.0	0.0

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557	8/16/2018	17:49:15	0.0	0.0	0.0	0.0
558	8/16/2018	17:50:15	0.0	0.0	0.0	0.0
559	8/16/2018	17:51:15	0.0	0.0	0.0	0.0
560	8/16/2018	17:52:15	0.0	0.0	0.0	0.0
561	8/16/2018	17:53:15	0.0	0.0	0.0	0.0
562	8/16/2018	17:54:15	0.0	0.0	0.0	0.0
563	8/16/2018	17:55:15	0.0	0.0	0.0	0.0
564	8/16/2018	17:56:15	0.0	0.0	0.0	0.0
565	8/16/2018	17:57:15	0.0	0.0	0.0	0.0
566	8/16/2018	17:58:15	0.0	0.0	0.0	0.0
567	8/16/2018	17:59:15	0.0	0.0	0.0	0.0
568	8/16/2018	18:00:15	0.0	0.0	0.0	0.0
569	8/16/2018	18:01:15	0.0	0.0	0.0	0.0
570	8/16/2018	18:02:15	0.0	0.0	0.0	0.0
571	8/16/2018	18:03:15	0.0	0.0	0.0	0.0
572	8/16/2018	18:04:15	0.0	0.0	0.0	0.0
573	8/16/2018	18:05:15	0.0	0.0	0.0	0.0
574	8/16/2018	18:06:15	0.0	0.0	0.0	0.0
575	8/16/2018	18:07:15	0.0	0.0	0.0	0.0
576	8/16/2018	18:08:15	0.0	0.0	0.0	0.0
577	8/16/2018	18:09:15	0.0	0.0	0.0	0.0
578	8/16/2018	18:10:15	0.0	0.0	0.0	0.0
579	8/16/2018	18:11:15	0.0	0.0	0.0	0.0
580	8/16/2018	18:12:15	0.0	0.0	0.0	0.0
581	8/16/2018	18:13:15	0.0	0.0	0.0	0.0
582	8/16/2018	18:14:15	0.0	0.0	0.0	0.0
583	8/16/2018	18:15:15	0.0	0.0	0.0	0.0
Peak		0.0 0.1	1.0	0.0		
Min		0.0 0.0	0.0	0.0		
Average		0.0 0.0	0.0	0.0		

TWA/STEL

Index	Date/Time	PID(ppm) (TWA)	PID(ppm) (STEL)
001	8/16/2018 08:33:15	0.0	---
002	8/16/2018 08:34:15	0.0	---
003	8/16/2018 08:35:15	0.0	---
004	8/16/2018 08:36:15	0.0	---
005	8/16/2018 08:37:15	0.0	---
006	8/16/2018 08:38:15	0.0	---
007	8/16/2018 08:39:15	0.0	---
008	8/16/2018 08:40:15	0.0	---
009	8/16/2018 08:41:15	0.0	---
010	8/16/2018 08:42:15	0.0	---
011	8/16/2018 08:43:15	0.0	---
012	8/16/2018 08:44:15	0.0	---
013	8/16/2018 08:45:15	0.0	---

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014	8/16/2018	08:46:15	0.0	---
015	8/16/2018	08:47:15	0.0	0.0
016	8/16/2018	08:48:15	0.0	0.0
017	8/16/2018	08:49:15	0.0	0.0
018	8/16/2018	08:50:15	0.0	0.0
019	8/16/2018	08:51:15	0.0	0.0
020	8/16/2018	08:52:15	0.0	0.0
021	8/16/2018	08:53:15	0.0	0.0
022	8/16/2018	08:54:15	0.0	0.0
023	8/16/2018	08:55:15	0.0	0.0
024	8/16/2018	08:56:15	0.0	0.0
025	8/16/2018	08:57:15	0.0	0.0
026	8/16/2018	08:58:15	0.0	0.0
027	8/16/2018	08:59:15	0.0	0.0
028	8/16/2018	09:00:15	0.0	0.0
029	8/16/2018	09:01:15	0.0	0.0
030	8/16/2018	09:02:15	0.0	0.0
031	8/16/2018	09:03:15	0.0	0.0
032	8/16/2018	09:04:15	0.0	0.0
033	8/16/2018	09:05:15	0.0	0.0
034	8/16/2018	09:06:15	0.0	0.0
035	8/16/2018	09:07:15	0.0	0.0
036	8/16/2018	09:08:15	0.0	0.0
037	8/16/2018	09:09:15	0.0	0.0
038	8/16/2018	09:10:15	0.0	0.0
039	8/16/2018	09:11:15	0.0	0.0
040	8/16/2018	09:12:15	0.0	0.0
041	8/16/2018	09:13:15	0.0	0.0
042	8/16/2018	09:14:15	0.0	0.0
043	8/16/2018	09:15:15	0.0	0.0
044	8/16/2018	09:16:15	0.0	0.0
045	8/16/2018	09:17:15	0.0	0.0
046	8/16/2018	09:18:15	0.0	0.0
047	8/16/2018	09:19:15	0.0	0.0
048	8/16/2018	09:20:15	0.0	0.0
049	8/16/2018	09:21:15	0.0	0.0
050	8/16/2018	09:22:15	0.0	0.0
051	8/16/2018	09:23:15	0.0	0.0
052	8/16/2018	09:24:15	0.0	0.0
053	8/16/2018	09:25:15	0.0	0.0
054	8/16/2018	09:26:15	0.0	0.0
055	8/16/2018	09:27:15	0.0	0.0
056	8/16/2018	09:28:15	0.0	0.0
057	8/16/2018	09:29:15	0.0	0.0
058	8/16/2018	09:30:15	0.0	0.0
059	8/16/2018	09:31:15	0.0	0.0
060	8/16/2018	09:32:15	0.0	0.0
061	8/16/2018	09:33:15	0.0	0.0

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062	8/16/2018	09:34:15	0.0	0.0
063	8/16/2018	09:35:15	0.0	0.0
064	8/16/2018	09:36:15	0.0	0.0
065	8/16/2018	09:37:15	0.0	0.0
066	8/16/2018	09:38:15	0.0	0.0
067	8/16/2018	09:39:15	0.0	0.0
068	8/16/2018	09:40:15	0.0	0.0
069	8/16/2018	09:41:15	0.0	0.0
070	8/16/2018	09:42:15	0.0	0.0
071	8/16/2018	09:43:15	0.0	0.0
072	8/16/2018	09:44:15	0.0	0.0
073	8/16/2018	09:45:15	0.0	0.0
074	8/16/2018	09:46:15	0.0	0.0
075	8/16/2018	09:47:15	0.0	0.0
076	8/16/2018	09:48:15	0.0	0.0
077	8/16/2018	09:49:15	0.0	0.0
078	8/16/2018	09:50:15	0.0	0.0
079	8/16/2018	09:51:15	0.0	0.0
080	8/16/2018	09:52:15	0.0	0.0
081	8/16/2018	09:53:15	0.0	0.0
082	8/16/2018	09:54:15	0.0	0.0
083	8/16/2018	09:55:15	0.0	0.0
084	8/16/2018	09:56:15	0.0	0.0
085	8/16/2018	09:57:15	0.0	0.0
086	8/16/2018	09:58:15	0.0	0.0
087	8/16/2018	09:59:15	0.0	0.0
088	8/16/2018	10:00:15	0.0	0.0
089	8/16/2018	10:01:15	0.0	0.0
090	8/16/2018	10:02:15	0.0	0.0
091	8/16/2018	10:03:15	0.0	0.0
092	8/16/2018	10:04:15	0.0	0.0
093	8/16/2018	10:05:15	0.0	0.0
094	8/16/2018	10:06:15	0.0	0.0
095	8/16/2018	10:07:15	0.0	0.0
096	8/16/2018	10:08:15	0.0	0.0
097	8/16/2018	10:09:15	0.0	0.0
098	8/16/2018	10:10:15	0.0	0.0
099	8/16/2018	10:11:15	0.0	0.0
100	8/16/2018	10:12:15	0.0	0.0
101	8/16/2018	10:13:15	0.0	0.0
102	8/16/2018	10:14:15	0.0	0.0
103	8/16/2018	10:15:15	0.0	0.0
104	8/16/2018	10:16:15	0.0	0.0
105	8/16/2018	10:17:15	0.0	0.0
106	8/16/2018	10:18:15	0.0	0.0
107	8/16/2018	10:19:15	0.0	0.0
108	8/16/2018	10:20:15	0.0	0.0
109	8/16/2018	10:21:15	0.0	0.0

PRS_EXPORT_20181119.txt38160

110	8/16/2018	10:22:15	0.0	0.0
111	8/16/2018	10:23:15	0.0	0.0
112	8/16/2018	10:24:15	0.0	0.0
113	8/16/2018	10:25:15	0.0	0.0
114	8/16/2018	10:26:15	0.0	0.0
115	8/16/2018	10:27:15	0.0	0.0
116	8/16/2018	10:28:15	0.0	0.0
117	8/16/2018	10:29:15	0.0	0.0
118	8/16/2018	10:30:15	0.0	0.0
119	8/16/2018	10:31:15	0.0	0.0
120	8/16/2018	10:32:15	0.0	0.0
121	8/16/2018	10:33:15	0.0	0.0
122	8/16/2018	10:34:15	0.0	0.0
123	8/16/2018	10:35:15	0.0	0.0
124	8/16/2018	10:36:15	0.0	0.0
125	8/16/2018	10:37:15	0.0	0.0
126	8/16/2018	10:38:15	0.0	0.0
127	8/16/2018	10:39:15	0.0	0.0
128	8/16/2018	10:40:15	0.0	0.0
129	8/16/2018	10:41:15	0.0	0.0
130	8/16/2018	10:42:15	0.0	0.0
131	8/16/2018	10:43:15	0.0	0.0
132	8/16/2018	10:44:15	0.0	0.0
133	8/16/2018	10:45:15	0.0	0.0
134	8/16/2018	10:46:15	0.0	0.0
135	8/16/2018	10:47:15	0.0	0.0
136	8/16/2018	10:48:15	0.0	0.0
137	8/16/2018	10:49:15	0.0	0.0
138	8/16/2018	10:50:15	0.0	0.0
139	8/16/2018	10:51:15	0.0	0.0
140	8/16/2018	10:52:15	0.0	0.0
141	8/16/2018	10:53:15	0.0	0.0
142	8/16/2018	10:54:15	0.0	0.0
143	8/16/2018	10:55:15	0.0	0.0
144	8/16/2018	10:56:15	0.0	0.0
145	8/16/2018	10:57:15	0.0	0.0
146	8/16/2018	10:58:15	0.0	0.0
147	8/16/2018	10:59:15	0.0	0.0
148	8/16/2018	11:00:15	0.0	0.0
149	8/16/2018	11:01:15	0.0	0.0
150	8/16/2018	11:02:15	0.0	0.0
151	8/16/2018	11:03:15	0.0	0.0
152	8/16/2018	11:04:15	0.0	0.0
153	8/16/2018	11:05:15	0.0	0.0
154	8/16/2018	11:06:15	0.0	0.0
155	8/16/2018	11:07:15	0.0	0.0
156	8/16/2018	11:08:15	0.0	0.0
157	8/16/2018	11:09:15	0.0	0.0

PRS_EXPORT_20181119.txt38160

158	8/16/2018	11:10:15	0.0	0.0
159	8/16/2018	11:11:15	0.0	0.0
160	8/16/2018	11:12:15	0.0	0.0
161	8/16/2018	11:13:15	0.0	0.0
162	8/16/2018	11:14:15	0.0	0.0
163	8/16/2018	11:15:15	0.0	0.0
164	8/16/2018	11:16:15	0.0	0.0
165	8/16/2018	11:17:15	0.0	0.0
166	8/16/2018	11:18:15	0.0	0.0
167	8/16/2018	11:19:15	0.0	0.0
168	8/16/2018	11:20:15	0.0	0.0
169	8/16/2018	11:21:15	0.0	0.0
170	8/16/2018	11:22:15	0.0	0.0
171	8/16/2018	11:23:15	0.0	0.0
172	8/16/2018	11:24:15	0.0	0.0
173	8/16/2018	11:25:15	0.0	0.0
174	8/16/2018	11:26:15	0.0	0.0
175	8/16/2018	11:27:15	0.0	0.0
176	8/16/2018	11:28:15	0.0	0.0
177	8/16/2018	11:29:15	0.0	0.0
178	8/16/2018	11:30:15	0.0	0.0
179	8/16/2018	11:31:15	0.0	0.0
180	8/16/2018	11:32:15	0.0	0.0
181	8/16/2018	11:33:15	0.0	0.0
182	8/16/2018	11:34:15	0.0	0.0
183	8/16/2018	11:35:15	0.0	0.0
184	8/16/2018	11:36:15	0.0	0.0
185	8/16/2018	11:37:15	0.0	0.0
186	8/16/2018	11:38:15	0.0	0.0
187	8/16/2018	11:39:15	0.0	0.0
188	8/16/2018	11:40:15	0.0	0.0
189	8/16/2018	11:41:15	0.0	0.0
190	8/16/2018	11:42:15	0.0	0.0
191	8/16/2018	11:43:15	0.0	0.0
192	8/16/2018	11:44:15	0.0	0.0
193	8/16/2018	11:45:15	0.0	0.0
194	8/16/2018	11:46:15	0.0	0.0
195	8/16/2018	11:47:15	0.0	0.0
196	8/16/2018	11:48:15	0.0	0.0
197	8/16/2018	11:49:15	0.0	0.0
198	8/16/2018	11:50:15	0.0	0.0
199	8/16/2018	11:51:15	0.0	0.0
200	8/16/2018	11:52:15	0.0	0.0
201	8/16/2018	11:53:15	0.0	0.0
202	8/16/2018	11:54:15	0.0	0.0
203	8/16/2018	11:55:15	0.0	0.0
204	8/16/2018	11:56:15	0.0	0.0
205	8/16/2018	11:57:15	0.0	0.0

PRS_EXPORT_20181119.txt38160

206	8/16/2018	11:58:15	0.0	0.0
207	8/16/2018	11:59:15	0.0	0.0
208	8/16/2018	12:00:15	0.0	0.0
209	8/16/2018	12:01:15	0.0	0.0
210	8/16/2018	12:02:15	0.0	0.0
211	8/16/2018	12:03:15	0.0	0.0
212	8/16/2018	12:04:15	0.0	0.0
213	8/16/2018	12:05:15	0.0	0.0
214	8/16/2018	12:06:15	0.0	0.0
215	8/16/2018	12:07:15	0.0	0.0
216	8/16/2018	12:08:15	0.0	0.0
217	8/16/2018	12:09:15	0.0	0.0
218	8/16/2018	12:10:15	0.0	0.0
219	8/16/2018	12:11:15	0.0	0.0
220	8/16/2018	12:12:15	0.0	0.0
221	8/16/2018	12:13:15	0.0	0.0
222	8/16/2018	12:14:15	0.0	0.0
223	8/16/2018	12:15:15	0.0	0.0
224	8/16/2018	12:16:15	0.0	0.0
225	8/16/2018	12:17:15	0.0	0.0
226	8/16/2018	12:18:15	0.0	0.0
227	8/16/2018	12:19:15	0.0	0.0
228	8/16/2018	12:20:15	0.0	0.0
229	8/16/2018	12:21:15	0.0	0.0
230	8/16/2018	12:22:15	0.0	0.0
231	8/16/2018	12:23:15	0.0	0.0
232	8/16/2018	12:24:15	0.0	0.0
233	8/16/2018	12:25:15	0.0	0.0
234	8/16/2018	12:26:15	0.0	0.0
235	8/16/2018	12:27:15	0.0	0.0
236	8/16/2018	12:28:15	0.0	0.0
237	8/16/2018	12:29:15	0.0	0.0
238	8/16/2018	12:30:15	0.0	0.0
239	8/16/2018	12:31:15	0.0	0.0
240	8/16/2018	12:32:15	0.0	0.0
241	8/16/2018	12:33:15	0.0	0.0
242	8/16/2018	12:34:15	0.0	0.0
243	8/16/2018	12:35:15	0.0	0.0
244	8/16/2018	12:36:15	0.0	0.0
245	8/16/2018	12:37:15	0.0	0.0
246	8/16/2018	12:38:15	0.0	0.0
247	8/16/2018	12:39:15	0.0	0.0
248	8/16/2018	12:40:15	0.0	0.0
249	8/16/2018	12:41:15	0.0	0.0
250	8/16/2018	12:42:15	0.0	0.0
251	8/16/2018	12:43:15	0.0	0.0
252	8/16/2018	12:44:15	0.0	0.0
253	8/16/2018	12:45:15	0.0	0.0

PRS_EXPORT_20181119.txt38160

254	8/16/2018	12:46:15	0.0	0.0
255	8/16/2018	12:47:15	0.0	0.0
256	8/16/2018	12:48:15	0.0	0.0
257	8/16/2018	12:49:15	0.0	0.0
258	8/16/2018	12:50:15	0.0	0.0
259	8/16/2018	12:51:15	0.0	0.0
260	8/16/2018	12:52:15	0.0	0.0
261	8/16/2018	12:53:15	0.0	0.0
262	8/16/2018	12:54:15	0.0	0.0
263	8/16/2018	12:55:15	0.0	0.0
264	8/16/2018	12:56:15	0.0	0.0
265	8/16/2018	12:57:15	0.0	0.0
266	8/16/2018	12:58:15	0.0	0.0
267	8/16/2018	12:59:15	0.0	0.0
268	8/16/2018	13:00:15	0.0	0.0
269	8/16/2018	13:01:15	0.0	0.0
270	8/16/2018	13:02:15	0.0	0.0
271	8/16/2018	13:03:15	0.0	0.0
272	8/16/2018	13:04:15	0.0	0.0
273	8/16/2018	13:05:15	0.0	0.0
274	8/16/2018	13:06:15	0.0	0.0
275	8/16/2018	13:07:15	0.0	0.0
276	8/16/2018	13:08:15	0.0	0.0
277	8/16/2018	13:09:15	0.0	0.0
278	8/16/2018	13:10:15	0.0	0.0
279	8/16/2018	13:11:15	0.0	0.0
280	8/16/2018	13:12:15	0.0	0.0
281	8/16/2018	13:13:15	0.0	0.0
282	8/16/2018	13:14:15	0.0	0.0
283	8/16/2018	13:15:15	0.0	0.0
284	8/16/2018	13:16:15	0.0	0.0
285	8/16/2018	13:17:15	0.0	0.0
286	8/16/2018	13:18:15	0.0	0.0
287	8/16/2018	13:19:15	0.0	0.0
288	8/16/2018	13:20:15	0.0	0.0
289	8/16/2018	13:21:15	0.0	0.0
290	8/16/2018	13:22:15	0.0	0.0
291	8/16/2018	13:23:15	0.0	0.0
292	8/16/2018	13:24:15	0.0	0.0
293	8/16/2018	13:25:15	0.0	0.0
294	8/16/2018	13:26:15	0.0	0.0
295	8/16/2018	13:27:15	0.0	0.0
296	8/16/2018	13:28:15	0.0	0.0
297	8/16/2018	13:29:15	0.0	0.0
298	8/16/2018	13:30:15	0.0	0.0
299	8/16/2018	13:31:15	0.0	0.0
300	8/16/2018	13:32:15	0.0	0.0
301	8/16/2018	13:33:15	0.0	0.0

PRS_EXPORT_20181119.txt38160

302	8/16/2018	13:34:15	0.0	0.0
303	8/16/2018	13:35:15	0.0	0.0
304	8/16/2018	13:36:15	0.0	0.0
305	8/16/2018	13:37:15	0.0	0.0
306	8/16/2018	13:38:15	0.0	0.0
307	8/16/2018	13:39:15	0.0	0.0
308	8/16/2018	13:40:15	0.0	0.0
309	8/16/2018	13:41:15	0.0	0.0
310	8/16/2018	13:42:15	0.0	0.0
311	8/16/2018	13:43:15	0.0	0.0
312	8/16/2018	13:44:15	0.0	0.0
313	8/16/2018	13:45:15	0.0	0.0
314	8/16/2018	13:46:15	0.0	0.0
315	8/16/2018	13:47:15	0.0	0.0
316	8/16/2018	13:48:15	0.0	0.0
317	8/16/2018	13:49:15	0.0	0.0
318	8/16/2018	13:50:15	0.0	0.0
319	8/16/2018	13:51:15	0.0	0.0
320	8/16/2018	13:52:15	0.0	0.0
321	8/16/2018	13:53:15	0.0	0.0
322	8/16/2018	13:54:15	0.0	0.0
323	8/16/2018	13:55:15	0.0	0.0
324	8/16/2018	13:56:15	0.0	0.0
325	8/16/2018	13:57:15	0.0	0.0
326	8/16/2018	13:58:15	0.0	0.0
327	8/16/2018	13:59:15	0.0	0.0
328	8/16/2018	14:00:15	0.0	0.0
329	8/16/2018	14:01:15	0.0	0.0
330	8/16/2018	14:02:15	0.0	0.0
331	8/16/2018	14:03:15	0.0	0.0
332	8/16/2018	14:04:15	0.0	0.0
333	8/16/2018	14:05:15	0.0	0.0
334	8/16/2018	14:06:15	0.0	0.0
335	8/16/2018	14:07:15	0.0	0.0
336	8/16/2018	14:08:15	0.0	0.0
337	8/16/2018	14:09:15	0.0	0.0
338	8/16/2018	14:10:15	0.0	0.0
339	8/16/2018	14:11:15	0.0	0.0
340	8/16/2018	14:12:15	0.0	0.0
341	8/16/2018	14:13:15	0.0	0.0
342	8/16/2018	14:14:15	0.0	0.0
343	8/16/2018	14:15:15	0.0	0.0
344	8/16/2018	14:16:15	0.0	0.0
345	8/16/2018	14:17:15	0.0	0.0
346	8/16/2018	14:18:15	0.0	0.0
347	8/16/2018	14:19:15	0.0	0.0
348	8/16/2018	14:20:15	0.0	0.0
349	8/16/2018	14:21:15	0.0	0.0

PRS_EXPORT_20181119.txt38160

350	8/16/2018	14:22:15	0.0	0.0
351	8/16/2018	14:23:15	0.0	0.0
352	8/16/2018	14:24:15	0.0	0.0
353	8/16/2018	14:25:15	0.0	0.0
354	8/16/2018	14:26:15	0.0	0.0
355	8/16/2018	14:27:15	0.0	0.0
356	8/16/2018	14:28:15	0.0	0.0
357	8/16/2018	14:29:15	0.0	0.0
358	8/16/2018	14:30:15	0.0	0.0
359	8/16/2018	14:31:15	0.0	0.0
360	8/16/2018	14:32:15	0.0	0.0
361	8/16/2018	14:33:15	0.0	0.0
362	8/16/2018	14:34:15	0.0	0.0
363	8/16/2018	14:35:15	0.0	0.0
364	8/16/2018	14:36:15	0.0	0.0
365	8/16/2018	14:37:15	0.0	0.0
366	8/16/2018	14:38:15	0.0	0.0
367	8/16/2018	14:39:15	0.0	0.0
368	8/16/2018	14:40:15	0.0	0.0
369	8/16/2018	14:41:15	0.0	0.0
370	8/16/2018	14:42:15	0.0	0.0
371	8/16/2018	14:43:15	0.0	0.0
372	8/16/2018	14:44:15	0.0	0.0
373	8/16/2018	14:45:15	0.0	0.0
374	8/16/2018	14:46:15	0.0	0.0
375	8/16/2018	14:47:15	0.0	0.0
376	8/16/2018	14:48:15	0.0	0.0
377	8/16/2018	14:49:15	0.0	0.0
378	8/16/2018	14:50:15	0.0	0.0
379	8/16/2018	14:51:15	0.0	0.0
380	8/16/2018	14:52:15	0.0	0.0
381	8/16/2018	14:53:15	0.0	0.0
382	8/16/2018	14:54:15	0.0	0.0
383	8/16/2018	14:55:15	0.0	0.0
384	8/16/2018	14:56:15	0.0	0.0
385	8/16/2018	14:57:15	0.0	0.0
386	8/16/2018	14:58:15	0.0	0.0
387	8/16/2018	14:59:15	0.0	0.0
388	8/16/2018	15:00:15	0.0	0.0
389	8/16/2018	15:01:15	0.0	0.0
390	8/16/2018	15:02:15	0.0	0.0
391	8/16/2018	15:03:15	0.0	0.0
392	8/16/2018	15:04:15	0.0	0.0
393	8/16/2018	15:05:15	0.0	0.0
394	8/16/2018	15:06:15	0.0	0.0
395	8/16/2018	15:07:15	0.0	0.0
396	8/16/2018	15:08:15	0.0	0.0
397	8/16/2018	15:09:15	0.0	0.0

PRS_EXPORT_20181119.txt38160

398	8/16/2018	15:10:15	0.0	0.0
399	8/16/2018	15:11:15	0.0	0.0
400	8/16/2018	15:12:15	0.0	0.0
401	8/16/2018	15:13:15	0.0	0.0
402	8/16/2018	15:14:15	0.0	0.0
403	8/16/2018	15:15:15	0.0	0.0
404	8/16/2018	15:16:15	0.0	0.0
405	8/16/2018	15:17:15	0.0	0.0
406	8/16/2018	15:18:15	0.0	0.0
407	8/16/2018	15:19:15	0.0	0.0
408	8/16/2018	15:20:15	0.0	0.0
409	8/16/2018	15:21:15	0.0	0.0
410	8/16/2018	15:22:15	0.0	0.0
411	8/16/2018	15:23:15	0.0	0.0
412	8/16/2018	15:24:15	0.0	0.0
413	8/16/2018	15:25:15	0.0	0.0
414	8/16/2018	15:26:15	0.0	0.0
415	8/16/2018	15:27:15	0.0	0.0
416	8/16/2018	15:28:15	0.0	0.0
417	8/16/2018	15:29:15	0.0	0.0
418	8/16/2018	15:30:15	0.0	0.0
419	8/16/2018	15:31:15	0.0	0.0
420	8/16/2018	15:32:15	0.0	0.0
421	8/16/2018	15:33:15	0.0	0.0
422	8/16/2018	15:34:15	0.0	0.0
423	8/16/2018	15:35:15	0.0	0.0
424	8/16/2018	15:36:15	0.0	0.0
425	8/16/2018	15:37:15	0.0	0.0
426	8/16/2018	15:38:15	0.0	0.0
427	8/16/2018	15:39:15	0.0	0.0
428	8/16/2018	15:40:15	0.0	0.0
429	8/16/2018	15:41:15	0.0	0.0
430	8/16/2018	15:42:15	0.0	0.0
431	8/16/2018	15:43:15	0.0	0.0
432	8/16/2018	15:44:15	0.0	0.0
433	8/16/2018	15:45:15	0.0	0.0
434	8/16/2018	15:46:15	0.0	0.0
435	8/16/2018	15:47:15	0.0	0.0
436	8/16/2018	15:48:15	0.0	0.0
437	8/16/2018	15:49:15	0.0	0.0
438	8/16/2018	15:50:15	0.0	0.0
439	8/16/2018	15:51:15	0.0	0.0
440	8/16/2018	15:52:15	0.0	0.0
441	8/16/2018	15:53:15	0.0	0.0
442	8/16/2018	15:54:15	0.0	0.0
443	8/16/2018	15:55:15	0.0	0.0
444	8/16/2018	15:56:15	0.0	0.0
445	8/16/2018	15:57:15	0.0	0.0

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446	8/16/2018	15:58:15	0.0	0.0
447	8/16/2018	15:59:15	0.0	0.0
448	8/16/2018	16:00:15	0.0	0.0
449	8/16/2018	16:01:15	0.0	0.0
450	8/16/2018	16:02:15	0.0	0.0
451	8/16/2018	16:03:15	0.0	0.0
452	8/16/2018	16:04:15	0.0	0.0
453	8/16/2018	16:05:15	0.0	0.0
454	8/16/2018	16:06:15	0.0	0.0
455	8/16/2018	16:07:15	0.0	0.0
456	8/16/2018	16:08:15	0.0	0.0
457	8/16/2018	16:09:15	0.0	0.0
458	8/16/2018	16:10:15	0.0	0.0
459	8/16/2018	16:11:15	0.0	0.0
460	8/16/2018	16:12:15	0.0	0.0
461	8/16/2018	16:13:15	0.0	0.0
462	8/16/2018	16:14:15	0.0	0.0
463	8/16/2018	16:15:15	0.0	0.0
464	8/16/2018	16:16:15	0.0	0.0
465	8/16/2018	16:17:15	0.0	0.0
466	8/16/2018	16:18:15	0.0	0.0
467	8/16/2018	16:19:15	0.0	0.0
468	8/16/2018	16:20:15	0.0	0.0
469	8/16/2018	16:21:15	0.0	0.0
470	8/16/2018	16:22:15	0.0	0.0
471	8/16/2018	16:23:15	0.0	0.0
472	8/16/2018	16:24:15	0.0	0.0
473	8/16/2018	16:25:15	0.0	0.0
474	8/16/2018	16:26:15	0.0	0.0
475	8/16/2018	16:27:15	0.0	0.0
476	8/16/2018	16:28:15	0.0	0.0
477	8/16/2018	16:29:15	0.0	0.0
478	8/16/2018	16:30:15	0.0	0.0
479	8/16/2018	16:31:15	0.0	0.0
480	8/16/2018	16:32:15	0.0	0.0
481	8/16/2018	16:33:15	0.0	0.0
482	8/16/2018	16:34:15	0.0	0.0
483	8/16/2018	16:35:15	0.0	0.0
484	8/16/2018	16:36:15	0.0	0.0
485	8/16/2018	16:37:15	0.0	0.0
486	8/16/2018	16:38:15	0.0	0.0
487	8/16/2018	16:39:15	0.0	0.0
488	8/16/2018	16:40:15	0.0	0.0
489	8/16/2018	16:41:15	0.0	0.0
490	8/16/2018	16:42:15	0.0	0.0
491	8/16/2018	16:43:15	0.0	0.0
492	8/16/2018	16:44:15	0.0	0.0
493	8/16/2018	16:45:15	0.0	0.0

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494	8/16/2018	16:46:15	0.0	0.0
495	8/16/2018	16:47:15	0.0	0.0
496	8/16/2018	16:48:15	0.0	0.0
497	8/16/2018	16:49:15	0.0	0.0
498	8/16/2018	16:50:15	0.0	0.0
499	8/16/2018	16:51:15	0.0	0.0
500	8/16/2018	16:52:15	0.0	0.0
501	8/16/2018	16:53:15	0.0	0.0
502	8/16/2018	16:54:15	0.0	0.0
503	8/16/2018	16:55:15	0.0	0.0
504	8/16/2018	16:56:15	0.0	0.0
505	8/16/2018	16:57:15	0.0	0.0
506	8/16/2018	16:58:15	0.0	0.0
507	8/16/2018	16:59:15	0.0	0.0
508	8/16/2018	17:00:15	0.0	0.0
509	8/16/2018	17:01:15	0.0	0.0
510	8/16/2018	17:02:15	0.0	0.0
511	8/16/2018	17:03:15	0.0	0.0
512	8/16/2018	17:04:15	0.0	0.0
513	8/16/2018	17:05:15	0.0	0.0
514	8/16/2018	17:06:15	0.0	0.0
515	8/16/2018	17:07:15	0.0	0.0
516	8/16/2018	17:08:15	0.0	0.0
517	8/16/2018	17:09:15	0.0	0.0
518	8/16/2018	17:10:15	0.0	0.0
519	8/16/2018	17:11:15	0.0	0.0
520	8/16/2018	17:12:15	0.0	0.0
521	8/16/2018	17:13:15	0.0	0.0
522	8/16/2018	17:14:15	0.0	0.0
523	8/16/2018	17:15:15	0.0	0.0
524	8/16/2018	17:16:15	0.0	0.0
525	8/16/2018	17:17:15	0.0	0.0
526	8/16/2018	17:18:15	0.0	0.0
527	8/16/2018	17:19:15	0.0	0.0
528	8/16/2018	17:20:15	0.0	0.0
529	8/16/2018	17:21:15	0.0	0.0
530	8/16/2018	17:22:15	0.0	0.0
531	8/16/2018	17:23:15	0.0	0.0
532	8/16/2018	17:24:15	0.0	0.0
533	8/16/2018	17:25:15	0.0	0.0
534	8/16/2018	17:26:15	0.0	0.0
535	8/16/2018	17:27:15	0.0	0.0
536	8/16/2018	17:28:15	0.0	0.0
537	8/16/2018	17:29:15	0.0	0.0
538	8/16/2018	17:30:15	0.0	0.0
539	8/16/2018	17:31:15	0.0	0.0
540	8/16/2018	17:32:15	0.0	0.0
541	8/16/2018	17:33:15	0.0	0.0

542	8/16/2018	17:34:15	0.0	0.0
543	8/16/2018	17:35:15	0.0	0.0
544	8/16/2018	17:36:15	0.0	0.0
545	8/16/2018	17:37:15	0.0	0.0
546	8/16/2018	17:38:15	0.0	0.0
547	8/16/2018	17:39:15	0.0	0.0
548	8/16/2018	17:40:15	0.0	0.0
549	8/16/2018	17:41:15	0.0	0.0
550	8/16/2018	17:42:15	0.0	0.0
551	8/16/2018	17:43:15	0.0	0.0
552	8/16/2018	17:44:15	0.0	0.0
553	8/16/2018	17:45:15	0.0	0.0
554	8/16/2018	17:46:15	0.0	0.0
555	8/16/2018	17:47:15	0.0	0.0
556	8/16/2018	17:48:15	0.0	0.0
557	8/16/2018	17:49:15	0.0	0.0
558	8/16/2018	17:50:15	0.0	0.0
559	8/16/2018	17:51:15	0.0	0.0
560	8/16/2018	17:52:15	0.0	0.0
561	8/16/2018	17:53:15	0.0	0.0
562	8/16/2018	17:54:15	0.0	0.0
563	8/16/2018	17:55:15	0.0	0.0
564	8/16/2018	17:56:15	0.0	0.0
565	8/16/2018	17:57:15	0.0	0.0
566	8/16/2018	17:58:15	0.0	0.0
567	8/16/2018	17:59:15	0.0	0.0
568	8/16/2018	18:00:15	0.0	0.0
569	8/16/2018	18:01:15	0.0	0.0
570	8/16/2018	18:02:15	0.0	0.0
571	8/16/2018	18:03:15	0.0	0.0
572	8/16/2018	18:04:15	0.0	0.0
573	8/16/2018	18:05:15	0.0	0.0
574	8/16/2018	18:06:15	0.0	0.0
575	8/16/2018	18:07:15	0.0	0.0
576	8/16/2018	18:08:15	0.0	0.0
577	8/16/2018	18:09:15	0.0	0.0
578	8/16/2018	18:10:15	0.0	0.0
579	8/16/2018	18:11:15	0.0	0.0
580	8/16/2018	18:12:15	0.0	0.0
581	8/16/2018	18:13:15	0.0	0.0
582	8/16/2018	18:14:15	0.0	0.0
583	8/16/2018	18:15:15	0.0	0.0

=====
18/08/20 08:25

Summary

Unit Name MiniRAE 3000(PGM-7320)

Unit SN 592-919975
Unit Firmware Ver V2.14

Running Mode Hygiene Mode
Datalog Mode Manual
Diagnostic Mode No
Stop Reason Power Down

Site ID RAE00000
User ID UW000000

Begin 8/20/2018 08:25:43
End 8/20/2018 11:29:39
Sample Period(s) 60
Number of Records 183

Sensor PID(ppm)
Sensor SN S023030116U2
Measure Type Min; Avg; Max; Real
Span 100.0
Span 2 1000.0
Low Alarm 50.0
High Alarm 100.0
Over Alarm 15000.0
STEL Alarm 25.0
TWA Alarm 10.0
Measurement Gas Isobutylene
Calibration Time 8/20/2018 08:24
Peak 0.0
Min 0.0
Average 0.0

Datalog

Index	Date/Time	PID(ppm) (Min)	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)	PID(ppm)
001	8/20/2018 08:26:43	0.0	0.0	0.0	0.0	0.0
002	8/20/2018 08:27:43	0.0	0.0	0.0	0.0	0.0
003	8/20/2018 08:28:43	0.0	0.0	0.0	0.0	0.0
004	8/20/2018 08:29:43	0.0	0.0	0.0	0.0	0.0
005	8/20/2018 08:30:43	0.0	0.0	0.0	0.0	0.0
006	8/20/2018 08:31:43	0.0	0.0	0.0	0.0	0.0
007	8/20/2018 08:32:43	0.0	0.0	0.0	0.0	0.0
008	8/20/2018 08:33:43	0.0	0.0	0.0	0.0	0.0
009	8/20/2018 08:34:43	0.0	0.0	0.0	0.0	0.0
010	8/20/2018 08:35:43	0.0	0.0	0.0	0.0	0.0
011	8/20/2018 08:36:43	0.0	0.0	0.0	0.0	0.0
012	8/20/2018 08:37:43	0.0	0.0	0.0	0.0	0.0

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013	8/20/2018	08:38:43	0.0	0.0	0.0	0.0
014	8/20/2018	08:39:43	0.0	0.0	0.0	0.0
015	8/20/2018	08:40:43	0.0	0.0	0.0	0.0
016	8/20/2018	08:41:43	0.0	0.0	0.0	0.0
017	8/20/2018	08:42:43	0.0	0.0	0.0	0.0
018	8/20/2018	08:43:43	0.0	0.0	0.0	0.0
019	8/20/2018	08:44:43	0.0	0.0	0.0	0.0
020	8/20/2018	08:45:43	0.0	0.0	0.0	0.0
021	8/20/2018	08:46:43	0.0	0.0	0.0	0.0
022	8/20/2018	08:47:43	0.0	0.0	0.0	0.0
023	8/20/2018	08:48:43	0.0	0.0	0.0	0.0
024	8/20/2018	08:49:43	0.0	0.0	0.0	0.0
025	8/20/2018	08:50:43	0.0	0.0	0.0	0.0
026	8/20/2018	08:51:43	0.0	0.0	0.0	0.0
027	8/20/2018	08:52:43	0.0	0.0	0.0	0.0
028	8/20/2018	08:53:43	0.0	0.0	0.0	0.0
029	8/20/2018	08:54:43	0.0	0.0	0.0	0.0
030	8/20/2018	08:55:43	0.0	0.0	0.0	0.0
031	8/20/2018	08:56:43	0.0	0.0	0.0	0.0
032	8/20/2018	08:57:43	0.0	0.0	0.0	0.0
033	8/20/2018	08:58:43	0.0	0.0	0.0	0.0
034	8/20/2018	08:59:43	0.0	0.0	0.0	0.0
035	8/20/2018	09:00:43	0.0	0.0	0.0	0.0
036	8/20/2018	09:01:43	0.0	0.0	0.0	0.0
037	8/20/2018	09:02:43	0.0	0.0	0.0	0.0
038	8/20/2018	09:03:43	0.0	0.0	0.0	0.0
039	8/20/2018	09:04:43	0.0	0.0	0.0	0.0
040	8/20/2018	09:05:43	0.0	0.0	0.0	0.0
041	8/20/2018	09:06:43	0.0	0.0	0.0	0.0
042	8/20/2018	09:07:43	0.0	0.0	0.0	0.0
043	8/20/2018	09:08:43	0.0	0.0	0.0	0.0
044	8/20/2018	09:09:43	0.0	0.0	0.0	0.0
045	8/20/2018	09:10:43	0.0	0.0	0.0	0.0
046	8/20/2018	09:11:43	0.0	0.0	0.0	0.0
047	8/20/2018	09:12:43	0.0	0.0	0.0	0.0
048	8/20/2018	09:13:43	0.0	0.0	0.0	0.0
049	8/20/2018	09:14:43	0.0	0.0	0.0	0.0
050	8/20/2018	09:15:43	0.0	0.0	0.0	0.0
051	8/20/2018	09:16:43	0.0	0.0	0.0	0.0
052	8/20/2018	09:17:43	0.0	0.0	0.0	0.0
053	8/20/2018	09:18:43	0.0	0.0	0.0	0.0
054	8/20/2018	09:19:43	0.0	0.0	0.0	0.0
055	8/20/2018	09:20:43	0.0	0.0	0.0	0.0
056	8/20/2018	09:21:43	0.0	0.0	0.0	0.0
057	8/20/2018	09:22:43	0.0	0.0	0.0	0.0
058	8/20/2018	09:23:43	0.0	0.0	0.0	0.0
059	8/20/2018	09:24:43	0.0	0.0	0.0	0.0
060	8/20/2018	09:25:43	0.0	0.0	0.0	0.0

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061	8/20/2018	09:26:43	0.0	0.0	0.0	0.0
062	8/20/2018	09:27:43	0.0	0.0	0.0	0.0
063	8/20/2018	09:28:43	0.0	0.0	0.0	0.0
064	8/20/2018	09:29:43	0.0	0.0	0.0	0.0
065	8/20/2018	09:30:43	0.0	0.0	0.0	0.0
066	8/20/2018	09:31:43	0.0	0.0	0.0	0.0
067	8/20/2018	09:32:43	0.0	0.0	0.0	0.0
068	8/20/2018	09:33:43	0.0	0.0	0.0	0.0
069	8/20/2018	09:34:43	0.0	0.0	0.0	0.0
070	8/20/2018	09:35:43	0.0	0.0	0.0	0.0
071	8/20/2018	09:36:43	0.0	0.0	0.0	0.0
072	8/20/2018	09:37:43	0.0	0.0	0.0	0.0
073	8/20/2018	09:38:43	0.0	0.0	0.0	0.0
074	8/20/2018	09:39:43	0.0	0.0	0.0	0.0
075	8/20/2018	09:40:43	0.0	0.0	0.0	0.0
076	8/20/2018	09:41:43	0.0	0.0	0.0	0.0
077	8/20/2018	09:42:43	0.0	0.0	0.0	0.0
078	8/20/2018	09:43:43	0.0	0.0	0.0	0.0
079	8/20/2018	09:44:43	0.0	0.0	0.0	0.0
080	8/20/2018	09:45:43	0.0	0.0	0.0	0.0
081	8/20/2018	09:46:43	0.0	0.0	0.0	0.0
082	8/20/2018	09:47:43	0.0	0.0	0.0	0.0
083	8/20/2018	09:48:43	0.0	0.0	0.0	0.0
084	8/20/2018	09:49:43	0.0	0.0	0.0	0.0
085	8/20/2018	09:50:43	0.0	0.0	0.0	0.0
086	8/20/2018	09:51:43	0.0	0.0	0.0	0.0
087	8/20/2018	09:52:43	0.0	0.0	0.0	0.0
088	8/20/2018	09:53:43	0.0	0.0	0.0	0.0
089	8/20/2018	09:54:43	0.0	0.0	0.0	0.0
090	8/20/2018	09:55:43	0.0	0.0	0.0	0.0
091	8/20/2018	09:56:43	0.0	0.0	0.0	0.0
092	8/20/2018	09:57:43	0.0	0.0	0.0	0.0
093	8/20/2018	09:58:43	0.0	0.0	0.0	0.0
094	8/20/2018	09:59:43	0.0	0.0	0.0	0.0
095	8/20/2018	10:00:43	0.0	0.0	0.0	0.0
096	8/20/2018	10:01:43	0.0	0.0	0.0	0.0
097	8/20/2018	10:02:43	0.0	0.0	0.0	0.0
098	8/20/2018	10:03:43	0.0	0.0	0.0	0.0
099	8/20/2018	10:04:43	0.0	0.0	0.0	0.0
100	8/20/2018	10:05:43	0.0	0.0	0.0	0.0
101	8/20/2018	10:06:43	0.0	0.0	0.0	0.0
102	8/20/2018	10:07:43	0.0	0.0	0.0	0.0
103	8/20/2018	10:08:43	0.0	0.0	0.0	0.0
104	8/20/2018	10:09:43	0.0	0.0	0.0	0.0
105	8/20/2018	10:10:43	0.0	0.0	0.0	0.0
106	8/20/2018	10:11:43	0.0	0.0	0.0	0.0
107	8/20/2018	10:12:43	0.0	0.0	0.0	0.0
108	8/20/2018	10:13:43	0.0	0.0	0.0	0.0

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109	8/20/2018	10:14:43	0.0	0.0	0.0	0.0
110	8/20/2018	10:15:43	0.0	0.0	0.0	0.0
111	8/20/2018	10:16:43	0.0	0.0	0.0	0.0
112	8/20/2018	10:17:43	0.0	0.0	0.0	0.0
113	8/20/2018	10:18:43	0.0	0.0	0.0	0.0
114	8/20/2018	10:19:43	0.0	0.0	0.0	0.0
115	8/20/2018	10:20:43	0.0	0.0	0.0	0.0
116	8/20/2018	10:21:43	0.0	0.0	0.0	0.0
117	8/20/2018	10:22:43	0.0	0.0	0.0	0.0
118	8/20/2018	10:23:43	0.0	0.0	0.0	0.0
119	8/20/2018	10:24:43	0.0	0.0	0.0	0.0
120	8/20/2018	10:25:43	0.0	0.0	0.0	0.0
121	8/20/2018	10:26:43	0.0	0.0	0.0	0.0
122	8/20/2018	10:27:43	0.0	0.0	0.0	0.0
123	8/20/2018	10:28:43	0.0	0.0	0.0	0.0
124	8/20/2018	10:29:43	0.0	0.0	0.0	0.0
125	8/20/2018	10:30:43	0.0	0.0	0.0	0.0
126	8/20/2018	10:31:43	0.0	0.0	0.0	0.0
127	8/20/2018	10:32:43	0.0	0.0	0.0	0.0
128	8/20/2018	10:33:43	0.0	0.0	0.0	0.0
129	8/20/2018	10:34:43	0.0	0.0	0.0	0.0
130	8/20/2018	10:35:43	0.0	0.0	0.0	0.0
131	8/20/2018	10:36:43	0.0	0.0	0.0	0.0
132	8/20/2018	10:37:43	0.0	0.0	0.0	0.0
133	8/20/2018	10:38:43	0.0	0.0	0.0	0.0
134	8/20/2018	10:39:43	0.0	0.0	0.0	0.0
135	8/20/2018	10:40:43	0.0	0.0	0.0	0.0
136	8/20/2018	10:41:43	0.0	0.0	0.0	0.0
137	8/20/2018	10:42:43	0.0	0.0	0.0	0.0
138	8/20/2018	10:43:43	0.0	0.0	0.0	0.0
139	8/20/2018	10:44:43	0.0	0.0	0.0	0.0
140	8/20/2018	10:45:43	0.0	0.0	0.0	0.0
141	8/20/2018	10:46:43	0.0	0.0	0.0	0.0
142	8/20/2018	10:47:43	0.0	0.0	0.0	0.0
143	8/20/2018	10:48:43	0.0	0.0	0.0	0.0
144	8/20/2018	10:49:43	0.0	0.0	0.0	0.0
145	8/20/2018	10:50:43	0.0	0.0	0.0	0.0
146	8/20/2018	10:51:43	0.0	0.0	0.0	0.0
147	8/20/2018	10:52:43	0.0	0.0	0.0	0.0
148	8/20/2018	10:53:43	0.0	0.0	0.0	0.0
149	8/20/2018	10:54:43	0.0	0.0	0.0	0.0
150	8/20/2018	10:55:43	0.0	0.0	0.0	0.0
151	8/20/2018	10:56:43	0.0	0.0	0.0	0.0
152	8/20/2018	10:57:43	0.0	0.0	0.0	0.0
153	8/20/2018	10:58:43	0.0	0.0	0.0	0.0
154	8/20/2018	10:59:43	0.0	0.0	0.0	0.0
155	8/20/2018	11:00:43	0.0	0.0	0.0	0.0
156	8/20/2018	11:01:43	0.0	0.0	0.0	0.0

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157	8/20/2018	11:02:43	0.0	0.0	0.0	0.0
158	8/20/2018	11:03:43	0.0	0.0	0.0	0.0
159	8/20/2018	11:04:43	0.0	0.0	0.0	0.0
160	8/20/2018	11:05:43	0.0	0.0	0.0	0.0
161	8/20/2018	11:06:43	0.0	0.0	0.0	0.0
162	8/20/2018	11:07:43	0.0	0.0	0.0	0.0
163	8/20/2018	11:08:43	0.0	0.0	0.0	0.0
164	8/20/2018	11:09:43	0.0	0.0	0.0	0.0
165	8/20/2018	11:10:43	0.0	0.0	0.0	0.0
166	8/20/2018	11:11:43	0.0	0.0	0.0	0.0
167	8/20/2018	11:12:43	0.0	0.0	0.0	0.0
168	8/20/2018	11:13:43	0.0	0.0	0.0	0.0
169	8/20/2018	11:14:43	0.0	0.0	0.0	0.0
170	8/20/2018	11:15:43	0.0	0.0	0.0	0.0
171	8/20/2018	11:16:43	0.0	0.0	0.0	0.0
172	8/20/2018	11:17:43	0.0	0.0	0.0	0.0
173	8/20/2018	11:18:43	0.0	0.0	0.0	0.0
174	8/20/2018	11:19:43	0.0	0.0	0.0	0.0
175	8/20/2018	11:20:43	0.0	0.0	0.0	0.0
176	8/20/2018	11:21:43	0.0	0.0	0.0	0.0
177	8/20/2018	11:22:43	0.0	0.0	0.0	0.0
178	8/20/2018	11:23:43	0.0	0.0	0.0	0.0
179	8/20/2018	11:24:43	0.0	0.0	0.0	0.0
180	8/20/2018	11:25:43	0.0	0.0	0.0	0.0
181	8/20/2018	11:26:43	0.0	0.0	0.0	0.0
182	8/20/2018	11:27:43	0.0	0.0	0.0	0.0
183	8/20/2018	11:28:43	0.0	0.0	0.0	0.0
Peak		0.0	0.0	0.0	0.0	
Min		0.0	0.0	0.0	0.0	
Average		0.0	0.0	0.0	0.0	

TWA/STEL

Index	Date/Time	PID(ppm) (TWA)	PID(ppm) (STEL)
001	8/20/2018 08:26:43	0.0	---
002	8/20/2018 08:27:43	0.0	---
003	8/20/2018 08:28:43	0.0	---
004	8/20/2018 08:29:43	0.0	---
005	8/20/2018 08:30:43	0.0	---
006	8/20/2018 08:31:43	0.0	---
007	8/20/2018 08:32:43	0.0	---
008	8/20/2018 08:33:43	0.0	---
009	8/20/2018 08:34:43	0.0	---
010	8/20/2018 08:35:43	0.0	---
011	8/20/2018 08:36:43	0.0	---
012	8/20/2018 08:37:43	0.0	---
013	8/20/2018 08:38:43	0.0	---

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014	8/20/2018	08:39:43	0.0	---
015	8/20/2018	08:40:43	0.0	0.0
016	8/20/2018	08:41:43	0.0	0.0
017	8/20/2018	08:42:43	0.0	0.0
018	8/20/2018	08:43:43	0.0	0.0
019	8/20/2018	08:44:43	0.0	0.0
020	8/20/2018	08:45:43	0.0	0.0
021	8/20/2018	08:46:43	0.0	0.0
022	8/20/2018	08:47:43	0.0	0.0
023	8/20/2018	08:48:43	0.0	0.0
024	8/20/2018	08:49:43	0.0	0.0
025	8/20/2018	08:50:43	0.0	0.0
026	8/20/2018	08:51:43	0.0	0.0
027	8/20/2018	08:52:43	0.0	0.0
028	8/20/2018	08:53:43	0.0	0.0
029	8/20/2018	08:54:43	0.0	0.0
030	8/20/2018	08:55:43	0.0	0.0
031	8/20/2018	08:56:43	0.0	0.0
032	8/20/2018	08:57:43	0.0	0.0
033	8/20/2018	08:58:43	0.0	0.0
034	8/20/2018	08:59:43	0.0	0.0
035	8/20/2018	09:00:43	0.0	0.0
036	8/20/2018	09:01:43	0.0	0.0
037	8/20/2018	09:02:43	0.0	0.0
038	8/20/2018	09:03:43	0.0	0.0
039	8/20/2018	09:04:43	0.0	0.0
040	8/20/2018	09:05:43	0.0	0.0
041	8/20/2018	09:06:43	0.0	0.0
042	8/20/2018	09:07:43	0.0	0.0
043	8/20/2018	09:08:43	0.0	0.0
044	8/20/2018	09:09:43	0.0	0.0
045	8/20/2018	09:10:43	0.0	0.0
046	8/20/2018	09:11:43	0.0	0.0
047	8/20/2018	09:12:43	0.0	0.0
048	8/20/2018	09:13:43	0.0	0.0
049	8/20/2018	09:14:43	0.0	0.0
050	8/20/2018	09:15:43	0.0	0.0
051	8/20/2018	09:16:43	0.0	0.0
052	8/20/2018	09:17:43	0.0	0.0
053	8/20/2018	09:18:43	0.0	0.0
054	8/20/2018	09:19:43	0.0	0.0
055	8/20/2018	09:20:43	0.0	0.0
056	8/20/2018	09:21:43	0.0	0.0
057	8/20/2018	09:22:43	0.0	0.0
058	8/20/2018	09:23:43	0.0	0.0
059	8/20/2018	09:24:43	0.0	0.0
060	8/20/2018	09:25:43	0.0	0.0
061	8/20/2018	09:26:43	0.0	0.0

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062	8/20/2018	09:27:43	0.0	0.0
063	8/20/2018	09:28:43	0.0	0.0
064	8/20/2018	09:29:43	0.0	0.0
065	8/20/2018	09:30:43	0.0	0.0
066	8/20/2018	09:31:43	0.0	0.0
067	8/20/2018	09:32:43	0.0	0.0
068	8/20/2018	09:33:43	0.0	0.0
069	8/20/2018	09:34:43	0.0	0.0
070	8/20/2018	09:35:43	0.0	0.0
071	8/20/2018	09:36:43	0.0	0.0
072	8/20/2018	09:37:43	0.0	0.0
073	8/20/2018	09:38:43	0.0	0.0
074	8/20/2018	09:39:43	0.0	0.0
075	8/20/2018	09:40:43	0.0	0.0
076	8/20/2018	09:41:43	0.0	0.0
077	8/20/2018	09:42:43	0.0	0.0
078	8/20/2018	09:43:43	0.0	0.0
079	8/20/2018	09:44:43	0.0	0.0
080	8/20/2018	09:45:43	0.0	0.0
081	8/20/2018	09:46:43	0.0	0.0
082	8/20/2018	09:47:43	0.0	0.0
083	8/20/2018	09:48:43	0.0	0.0
084	8/20/2018	09:49:43	0.0	0.0
085	8/20/2018	09:50:43	0.0	0.0
086	8/20/2018	09:51:43	0.0	0.0
087	8/20/2018	09:52:43	0.0	0.0
088	8/20/2018	09:53:43	0.0	0.0
089	8/20/2018	09:54:43	0.0	0.0
090	8/20/2018	09:55:43	0.0	0.0
091	8/20/2018	09:56:43	0.0	0.0
092	8/20/2018	09:57:43	0.0	0.0
093	8/20/2018	09:58:43	0.0	0.0
094	8/20/2018	09:59:43	0.0	0.0
095	8/20/2018	10:00:43	0.0	0.0
096	8/20/2018	10:01:43	0.0	0.0
097	8/20/2018	10:02:43	0.0	0.0
098	8/20/2018	10:03:43	0.0	0.0
099	8/20/2018	10:04:43	0.0	0.0
100	8/20/2018	10:05:43	0.0	0.0
101	8/20/2018	10:06:43	0.0	0.0
102	8/20/2018	10:07:43	0.0	0.0
103	8/20/2018	10:08:43	0.0	0.0
104	8/20/2018	10:09:43	0.0	0.0
105	8/20/2018	10:10:43	0.0	0.0
106	8/20/2018	10:11:43	0.0	0.0
107	8/20/2018	10:12:43	0.0	0.0
108	8/20/2018	10:13:43	0.0	0.0
109	8/20/2018	10:14:43	0.0	0.0

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110	8/20/2018	10:15:43	0.0	0.0
111	8/20/2018	10:16:43	0.0	0.0
112	8/20/2018	10:17:43	0.0	0.0
113	8/20/2018	10:18:43	0.0	0.0
114	8/20/2018	10:19:43	0.0	0.0
115	8/20/2018	10:20:43	0.0	0.0
116	8/20/2018	10:21:43	0.0	0.0
117	8/20/2018	10:22:43	0.0	0.0
118	8/20/2018	10:23:43	0.0	0.0
119	8/20/2018	10:24:43	0.0	0.0
120	8/20/2018	10:25:43	0.0	0.0
121	8/20/2018	10:26:43	0.0	0.0
122	8/20/2018	10:27:43	0.0	0.0
123	8/20/2018	10:28:43	0.0	0.0
124	8/20/2018	10:29:43	0.0	0.0
125	8/20/2018	10:30:43	0.0	0.0
126	8/20/2018	10:31:43	0.0	0.0
127	8/20/2018	10:32:43	0.0	0.0
128	8/20/2018	10:33:43	0.0	0.0
129	8/20/2018	10:34:43	0.0	0.0
130	8/20/2018	10:35:43	0.0	0.0
131	8/20/2018	10:36:43	0.0	0.0
132	8/20/2018	10:37:43	0.0	0.0
133	8/20/2018	10:38:43	0.0	0.0
134	8/20/2018	10:39:43	0.0	0.0
135	8/20/2018	10:40:43	0.0	0.0
136	8/20/2018	10:41:43	0.0	0.0
137	8/20/2018	10:42:43	0.0	0.0
138	8/20/2018	10:43:43	0.0	0.0
139	8/20/2018	10:44:43	0.0	0.0
140	8/20/2018	10:45:43	0.0	0.0
141	8/20/2018	10:46:43	0.0	0.0
142	8/20/2018	10:47:43	0.0	0.0
143	8/20/2018	10:48:43	0.0	0.0
144	8/20/2018	10:49:43	0.0	0.0
145	8/20/2018	10:50:43	0.0	0.0
146	8/20/2018	10:51:43	0.0	0.0
147	8/20/2018	10:52:43	0.0	0.0
148	8/20/2018	10:53:43	0.0	0.0
149	8/20/2018	10:54:43	0.0	0.0
150	8/20/2018	10:55:43	0.0	0.0
151	8/20/2018	10:56:43	0.0	0.0
152	8/20/2018	10:57:43	0.0	0.0
153	8/20/2018	10:58:43	0.0	0.0
154	8/20/2018	10:59:43	0.0	0.0
155	8/20/2018	11:00:43	0.0	0.0
156	8/20/2018	11:01:43	0.0	0.0
157	8/20/2018	11:02:43	0.0	0.0

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158	8/20/2018	11:03:43	0.0	0.0
159	8/20/2018	11:04:43	0.0	0.0
160	8/20/2018	11:05:43	0.0	0.0
161	8/20/2018	11:06:43	0.0	0.0
162	8/20/2018	11:07:43	0.0	0.0
163	8/20/2018	11:08:43	0.0	0.0
164	8/20/2018	11:09:43	0.0	0.0
165	8/20/2018	11:10:43	0.0	0.0
166	8/20/2018	11:11:43	0.0	0.0
167	8/20/2018	11:12:43	0.0	0.0
168	8/20/2018	11:13:43	0.0	0.0
169	8/20/2018	11:14:43	0.0	0.0
170	8/20/2018	11:15:43	0.0	0.0
171	8/20/2018	11:16:43	0.0	0.0
172	8/20/2018	11:17:43	0.0	0.0
173	8/20/2018	11:18:43	0.0	0.0
174	8/20/2018	11:19:43	0.0	0.0
175	8/20/2018	11:20:43	0.0	0.0
176	8/20/2018	11:21:43	0.0	0.0
177	8/20/2018	11:22:43	0.0	0.0
178	8/20/2018	11:23:43	0.0	0.0
179	8/20/2018	11:24:43	0.0	0.0
180	8/20/2018	11:25:43	0.0	0.0
181	8/20/2018	11:26:43	0.0	0.0
182	8/20/2018	11:27:43	0.0	0.0
183	8/20/2018	11:28:43	0.0	0.0

=====
18/11/01 09:39

Summary

Unit Name MiniRAE 3000(PGM-7320)
Unit SN 592-919975
Unit Firmware Ver V2.14

Running Mode Hygiene Mode
Datalog Mode Manual
Diagnostic Mode No
Stop Reason Power Down

Site ID RAE00000
User ID UW000000

Begin 11/1/2018 09:39:49
End 11/1/2018 15:10:35
Sample Period(s) 60
Number of Records 330

Sensor PID(ppm)
 Sensor SN S023030116U2
 Measure Type Min; Avg; Max; Real
 Span 100.0
 Span 2 1000.0
 Low Alarm 50.0
 High Alarm 100.0
 Over Alarm 15000.0
 STEL Alarm 25.0
 TWA Alarm 10.0
 Measurement Gas Isobutylene
 Calibration Time 10/31/2018 15:37
 Peak 0.2
 Min 0.0
 Average 0.0

Datalog

Index	Date/Time	PID(ppm) (Min)	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)	PID(ppm)
001	11/1/2018 09:40:49	0.0	0.0	0.0	0.1	0.0
002	11/1/2018 09:41:49	0.0	0.0	0.0	0.0	0.0
003	11/1/2018 09:42:49	0.0	0.0	0.0	0.0	0.0
004	11/1/2018 09:43:49	0.0	0.0	0.0	0.0	0.0
005	11/1/2018 09:44:49	0.0	0.0	0.0	0.0	0.0
006	11/1/2018 09:45:49	0.0	0.0	0.0	0.0	0.0
007	11/1/2018 09:46:49	0.0	0.0	0.0	0.0	0.0
008	11/1/2018 09:47:49	0.0	0.0	0.0	0.0	0.0
009	11/1/2018 09:48:49	0.0	0.0	0.0	0.0	0.0
010	11/1/2018 09:49:49	0.0	0.0	0.0	0.0	0.0
011	11/1/2018 09:50:49	0.0	0.0	0.0	0.0	0.0
012	11/1/2018 09:51:49	0.0	0.0	0.0	0.0	0.0
013	11/1/2018 09:52:49	0.0	0.0	0.0	0.0	0.0
014	11/1/2018 09:53:49	0.0	0.0	0.0	0.0	0.0
015	11/1/2018 09:54:49	0.0	0.0	0.0	0.0	0.0
016	11/1/2018 09:55:49	0.0	0.0	0.0	0.0	0.0
017	11/1/2018 09:56:49	0.0	0.0	0.0	0.0	0.0
018	11/1/2018 09:57:49	0.0	0.0	0.0	0.0	0.0
019	11/1/2018 09:58:49	0.0	0.0	0.0	0.0	0.0
020	11/1/2018 09:59:49	0.0	0.0	0.0	0.0	0.0
021	11/1/2018 10:00:49	0.0	0.0	0.0	0.0	0.0
022	11/1/2018 10:01:49	0.0	0.0	0.0	0.0	0.0
023	11/1/2018 10:02:49	0.0	0.0	0.0	0.0	0.0
024	11/1/2018 10:03:49	0.0	0.0	0.0	0.0	0.0
025	11/1/2018 10:04:49	0.0	0.0	0.0	0.0	0.0
026	11/1/2018 10:05:49	0.0	0.0	0.0	0.0	0.0
027	11/1/2018 10:06:49	0.0	0.0	0.0	0.0	0.0
028	11/1/2018 10:07:49	0.0	0.0	0.0	0.0	0.0

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029	11/1/2018	10:08:49	0.0	0.0	0.0	0.0
030	11/1/2018	10:09:49	0.0	0.0	0.0	0.0
031	11/1/2018	10:10:49	0.0	0.0	0.0	0.0
032	11/1/2018	10:11:49	0.0	0.0	0.0	0.0
033	11/1/2018	10:12:49	0.0	0.0	0.0	0.0
034	11/1/2018	10:13:49	0.0	0.0	0.0	0.0
035	11/1/2018	10:14:49	0.0	0.0	0.0	0.0
036	11/1/2018	10:15:49	0.0	0.0	0.0	0.0
037	11/1/2018	10:16:49	0.0	0.0	0.0	0.0
038	11/1/2018	10:17:49	0.0	0.0	0.0	0.0
039	11/1/2018	10:18:49	0.0	0.0	0.0	0.0
040	11/1/2018	10:19:49	0.0	0.0	0.0	0.0
041	11/1/2018	10:20:49	0.0	0.0	0.0	0.0
042	11/1/2018	10:21:49	0.0	0.0	0.0	0.0
043	11/1/2018	10:22:49	0.0	0.0	0.0	0.0
044	11/1/2018	10:23:49	0.0	0.0	0.0	0.0
045	11/1/2018	10:24:49	0.0	0.0	0.0	0.0
046	11/1/2018	10:25:49	0.0	0.0	0.0	0.0
047	11/1/2018	10:26:49	0.0	0.0	0.0	0.0
048	11/1/2018	10:27:49	0.0	0.0	0.0	0.0
049	11/1/2018	10:28:49	0.0	0.0	0.0	0.0
050	11/1/2018	10:29:49	0.0	0.0	0.0	0.0
051	11/1/2018	10:30:49	0.0	0.0	0.0	0.0
052	11/1/2018	10:31:49	0.0	0.0	0.0	0.0
053	11/1/2018	10:32:49	0.0	0.0	0.0	0.0
054	11/1/2018	10:33:49	0.0	0.0	0.0	0.0
055	11/1/2018	10:34:49	0.0	0.0	0.0	0.0
056	11/1/2018	10:35:49	0.0	0.0	0.1	0.0
057	11/1/2018	10:36:49	0.0	0.0	0.0	0.0
058	11/1/2018	10:37:49	0.0	0.0	0.0	0.0
059	11/1/2018	10:38:49	0.0	0.0	0.0	0.0
060	11/1/2018	10:39:49	0.0	0.0	0.0	0.0
061	11/1/2018	10:40:49	0.0	0.0	0.0	0.0
062	11/1/2018	10:41:49	0.0	0.0	0.0	0.0
063	11/1/2018	10:42:49	0.0	0.0	0.0	0.0
064	11/1/2018	10:43:49	0.0	0.0	0.0	0.0
065	11/1/2018	10:44:49	0.0	0.0	0.0	0.0
066	11/1/2018	10:45:49	0.0	0.0	0.0	0.0
067	11/1/2018	10:46:49	0.0	0.0	0.0	0.0
068	11/1/2018	10:47:49	0.0	0.0	0.0	0.0
069	11/1/2018	10:48:49	0.0	0.0	0.0	0.0
070	11/1/2018	10:49:49	0.0	0.0	0.0	0.0
071	11/1/2018	10:50:49	0.0	0.0	0.1	0.0
072	11/1/2018	10:51:49	0.0	0.0	0.1	0.0
073	11/1/2018	10:52:49	0.0	0.0	0.1	0.0
074	11/1/2018	10:53:49	0.0	0.0	0.1	0.0
075	11/1/2018	10:54:49	0.0	0.0	0.1	0.0
076	11/1/2018	10:55:49	0.0	0.0	0.1	0.1

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077	11/1/2018	10:56:49	0.1	0.1	0.1	0.1
078	11/1/2018	10:57:49	0.1	0.1	0.1	0.1
079	11/1/2018	10:58:49	0.1	0.1	0.1	0.1
080	11/1/2018	10:59:49	0.1	0.1	0.1	0.1
081	11/1/2018	11:00:49	0.1	0.1	0.1	0.1
082	11/1/2018	11:01:49	0.1	0.1	0.1	0.1
083	11/1/2018	11:02:49	0.1	0.1	0.1	0.1
084	11/1/2018	11:03:49	0.1	0.1	0.1	0.1
085	11/1/2018	11:04:49	0.1	0.1	0.1	0.1
086	11/1/2018	11:05:49	0.1	0.1	0.1	0.1
087	11/1/2018	11:06:49	0.1	0.1	0.1	0.1
088	11/1/2018	11:07:49	0.1	0.1	0.1	0.1
089	11/1/2018	11:08:49	0.1	0.1	0.1	0.1
090	11/1/2018	11:09:49	0.1	0.1	0.1	0.1
091	11/1/2018	11:10:49	0.1	0.1	0.1	0.1
092	11/1/2018	11:11:49	0.1	0.1	0.1	0.1
093	11/1/2018	11:12:49	0.1	0.1	0.1	0.1
094	11/1/2018	11:13:49	0.1	0.1	0.1	0.1
095	11/1/2018	11:14:49	0.1	0.1	0.1	0.1
096	11/1/2018	11:15:49	0.1	0.1	0.1	0.1
097	11/1/2018	11:16:49	0.1	0.1	0.1	0.1
098	11/1/2018	11:17:49	0.1	0.1	0.1	0.1
099	11/1/2018	11:18:49	0.1	0.1	0.1	0.1
100	11/1/2018	11:19:49	0.1	0.1	0.1	0.1
101	11/1/2018	11:20:49	0.1	0.1	0.1	0.1
102	11/1/2018	11:21:49	0.1	0.1	0.1	0.1
103	11/1/2018	11:22:49	0.1	0.1	0.1	0.1
104	11/1/2018	11:23:49	0.1	0.1	0.1	0.1
105	11/1/2018	11:24:49	0.1	0.1	0.1	0.1
106	11/1/2018	11:25:49	0.1	0.1	0.1	0.1
107	11/1/2018	11:26:49	0.1	0.1	0.1	0.1
108	11/1/2018	11:27:49	0.1	0.1	0.1	0.1
109	11/1/2018	11:28:49	0.1	0.1	0.1	0.1
110	11/1/2018	11:29:49	0.1	0.1	0.1	0.1
111	11/1/2018	11:30:49	0.1	0.1	0.1	0.1
112	11/1/2018	11:31:49	0.1	0.1	0.1	0.1
113	11/1/2018	11:32:49	0.1	0.1	0.1	0.1
114	11/1/2018	11:33:49	0.1	0.1	0.1	0.1
115	11/1/2018	11:34:49	0.1	0.1	0.1	0.1
116	11/1/2018	11:35:49	0.1	0.1	0.1	0.1
117	11/1/2018	11:36:49	0.1	0.1	0.1	0.1
118	11/1/2018	11:37:49	0.1	0.1	0.1	0.1
119	11/1/2018	11:38:49	0.1	0.1	0.1	0.1
120	11/1/2018	11:39:49	0.1	0.1	0.1	0.1
121	11/1/2018	11:40:49	0.1	0.1	0.2	0.1
122	11/1/2018	11:41:49	0.1	0.1	0.1	0.1
123	11/1/2018	11:42:49	0.1	0.1	0.2	0.1
124	11/1/2018	11:43:49	0.1	0.1	0.1	0.1

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125	11/1/2018	11:44:49	0.1	0.1	0.1	0.1
126	11/1/2018	11:45:49	0.1	0.1	0.1	0.1
127	11/1/2018	11:46:49	0.1	0.1	0.1	0.1
128	11/1/2018	11:47:49	0.1	0.1	0.2	0.1
129	11/1/2018	11:48:49	0.1	0.1	0.1	0.1
130	11/1/2018	11:49:49	0.1	0.1	0.1	0.1
131	11/1/2018	11:50:49	0.1	0.1	0.1	0.1
132	11/1/2018	11:51:49	0.1	0.1	0.1	0.1
133	11/1/2018	11:52:49	0.1	0.1	0.1	0.1
134	11/1/2018	11:53:49	0.1	0.1	0.1	0.1
135	11/1/2018	11:54:49	0.1	0.1	0.1	0.1
136	11/1/2018	11:55:49	0.1	0.1	0.1	0.1
137	11/1/2018	11:56:49	0.1	0.1	0.1	0.1
138	11/1/2018	11:57:49	0.1	0.1	0.1	0.1
139	11/1/2018	11:58:49	0.1	0.1	0.1	0.1
140	11/1/2018	11:59:49	0.1	0.1	0.1	0.1
141	11/1/2018	12:00:49	0.1	0.1	0.1	0.1
142	11/1/2018	12:01:49	0.1	0.1	0.1	0.1
143	11/1/2018	12:02:49	0.1	0.1	0.1	0.1
144	11/1/2018	12:03:49	0.1	0.1	0.1	0.1
145	11/1/2018	12:04:49	0.1	0.1	0.1	0.1
146	11/1/2018	12:05:49	0.1	0.1	0.1	0.1
147	11/1/2018	12:06:49	0.1	0.1	0.1	0.1
148	11/1/2018	12:07:49	0.1	0.1	0.1	0.1
149	11/1/2018	12:08:49	0.1	0.1	0.1	0.1
150	11/1/2018	12:09:49	0.1	0.1	0.1	0.1
151	11/1/2018	12:10:49	0.1	0.1	0.1	0.1
152	11/1/2018	12:11:49	0.1	0.1	0.1	0.1
153	11/1/2018	12:12:49	0.1	0.1	0.1	0.1
154	11/1/2018	12:13:49	0.1	0.1	0.1	0.1
155	11/1/2018	12:14:49	0.1	0.1	0.1	0.1
156	11/1/2018	12:15:49	0.1	0.1	0.1	0.1
157	11/1/2018	12:16:49	0.1	0.1	0.1	0.1
158	11/1/2018	12:17:49	0.1	0.1	0.2	0.1
159	11/1/2018	12:18:49	0.1	0.1	0.1	0.1
160	11/1/2018	12:19:49	0.1	0.1	0.1	0.1
161	11/1/2018	12:20:49	0.1	0.1	0.1	0.1
162	11/1/2018	12:21:49	0.1	0.1	0.1	0.1
163	11/1/2018	12:22:49	0.1	0.1	0.1	0.1
164	11/1/2018	12:23:49	0.1	0.1	0.1	0.1
165	11/1/2018	12:24:49	0.1	0.1	0.1	0.1
166	11/1/2018	12:25:49	0.1	0.1	0.1	0.1
167	11/1/2018	12:26:49	0.1	0.1	0.1	0.1
168	11/1/2018	12:27:49	0.1	0.1	0.1	0.1
169	11/1/2018	12:28:49	0.1	0.1	0.1	0.1
170	11/1/2018	12:29:49	0.1	0.1	0.1	0.1
171	11/1/2018	12:30:49	0.1	0.1	0.2	0.2
172	11/1/2018	12:31:49	0.1	0.2	0.2	0.2

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173	11/1/2018	12:32:49	0.2	0.2	0.2	0.2
174	11/1/2018	12:33:49	0.1	0.2	0.2	0.1
175	11/1/2018	12:34:49	0.1	0.1	0.1	0.1
176	11/1/2018	12:35:49	0.1	0.1	0.2	0.1
177	11/1/2018	12:36:49	0.1	0.1	0.1	0.1
178	11/1/2018	12:37:49	0.1	0.1	0.1	0.1
179	11/1/2018	12:38:49	0.1	0.1	0.1	0.1
180	11/1/2018	12:39:49	0.1	0.1	0.1	0.1
181	11/1/2018	12:40:49	0.1	0.1	0.1	0.1
182	11/1/2018	12:41:49	0.1	0.1	0.2	0.1
183	11/1/2018	12:42:49	0.1	0.1	0.1	0.1
184	11/1/2018	12:43:49	0.1	0.1	0.1	0.1
185	11/1/2018	12:44:49	0.1	0.1	0.1	0.1
186	11/1/2018	12:45:49	0.1	0.1	0.1	0.1
187	11/1/2018	12:46:49	0.1	0.1	0.1	0.1
188	11/1/2018	12:47:49	0.1	0.1	0.1	0.1
189	11/1/2018	12:48:49	0.1	0.1	0.1	0.1
190	11/1/2018	12:49:49	0.1	0.1	0.1	0.1
191	11/1/2018	12:50:49	0.1	0.1	0.1	0.1
192	11/1/2018	12:51:49	0.1	0.1	0.1	0.1
193	11/1/2018	12:52:49	0.1	0.1	0.1	0.1
194	11/1/2018	12:53:49	0.1	0.1	0.1	0.1
195	11/1/2018	12:54:49	0.1	0.1	0.1	0.1
196	11/1/2018	12:55:49	0.1	0.1	0.1	0.1
197	11/1/2018	12:56:49	0.1	0.1	0.1	0.1
198	11/1/2018	12:57:49	0.1	0.1	0.1	0.1
199	11/1/2018	12:58:49	0.1	0.1	0.1	0.1
200	11/1/2018	12:59:49	0.1	0.1	0.1	0.1
201	11/1/2018	13:00:49	0.1	0.1	0.1	0.1
202	11/1/2018	13:01:49	0.1	0.1	0.1	0.1
203	11/1/2018	13:02:49	0.1	0.1	0.1	0.1
204	11/1/2018	13:03:49	0.1	0.1	0.1	0.1
205	11/1/2018	13:04:49	0.0	0.0	0.1	0.0
206	11/1/2018	13:05:49	0.0	0.0	0.1	0.0
207	11/1/2018	13:06:49	0.0	0.0	0.0	0.0
208	11/1/2018	13:07:49	0.0	0.0	0.0	0.0
209	11/1/2018	13:08:49	0.0	0.0	0.0	0.0
210	11/1/2018	13:09:49	0.0	0.0	0.0	0.0
211	11/1/2018	13:10:49	0.0	0.0	0.0	0.0
212	11/1/2018	13:11:49	0.0	0.0	0.0	0.0
213	11/1/2018	13:12:49	0.0	0.0	0.0	0.0
214	11/1/2018	13:13:49	0.0	0.0	0.0	0.0
215	11/1/2018	13:14:49	0.0	0.0	0.0	0.0
216	11/1/2018	13:15:49	0.0	0.0	0.0	0.0
217	11/1/2018	13:16:49	0.0	0.0	0.0	0.0
218	11/1/2018	13:17:49	0.0	0.0	0.0	0.0
219	11/1/2018	13:18:49	0.0	0.0	0.0	0.0
220	11/1/2018	13:19:49	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

221	11/1/2018	13:20:49	0.0	0.0	0.0	0.0
222	11/1/2018	13:21:49	0.0	0.0	0.0	0.0
223	11/1/2018	13:22:49	0.0	0.0	0.0	0.0
224	11/1/2018	13:23:49	0.0	0.0	0.0	0.0
225	11/1/2018	13:24:49	0.0	0.0	0.0	0.0
226	11/1/2018	13:25:49	0.0	0.0	0.0	0.0
227	11/1/2018	13:26:49	0.0	0.0	0.0	0.0
228	11/1/2018	13:27:49	0.0	0.0	0.0	0.0
229	11/1/2018	13:28:49	0.0	0.0	0.0	0.0
230	11/1/2018	13:29:49	0.0	0.0	0.0	0.0
231	11/1/2018	13:30:49	0.0	0.0	0.0	0.0
232	11/1/2018	13:31:49	0.0	0.0	0.0	0.0
233	11/1/2018	13:32:49	0.0	0.0	0.0	0.0
234	11/1/2018	13:33:49	0.0	0.0	0.0	0.0
235	11/1/2018	13:34:49	0.0	0.0	0.0	0.0
236	11/1/2018	13:35:49	0.0	0.0	0.0	0.0
237	11/1/2018	13:36:49	0.0	0.0	0.0	0.0
238	11/1/2018	13:37:49	0.0	0.0	0.0	0.0
239	11/1/2018	13:38:49	0.0	0.0	0.0	0.0
240	11/1/2018	13:39:49	0.0	0.0	0.0	0.0
241	11/1/2018	13:40:49	0.0	0.0	0.0	0.0
242	11/1/2018	13:41:49	0.0	0.0	0.0	0.0
243	11/1/2018	13:42:49	0.0	0.0	0.0	0.0
244	11/1/2018	13:43:49	0.0	0.0	0.0	0.0
245	11/1/2018	13:44:49	0.0	0.0	0.0	0.0
246	11/1/2018	13:45:49	0.0	0.0	0.0	0.0
247	11/1/2018	13:46:49	0.0	0.0	0.0	0.0
248	11/1/2018	13:47:49	0.0	0.0	0.0	0.0
249	11/1/2018	13:48:49	0.0	0.0	0.0	0.0
250	11/1/2018	13:49:49	0.0	0.0	0.0	0.0
251	11/1/2018	13:50:49	0.0	0.0	0.0	0.0
252	11/1/2018	13:51:49	0.0	0.0	0.0	0.0
253	11/1/2018	13:52:49	0.0	0.0	0.0	0.0
254	11/1/2018	13:53:49	0.0	0.0	0.0	0.0
255	11/1/2018	13:54:49	0.0	0.0	0.0	0.0
256	11/1/2018	13:55:49	0.0	0.0	0.0	0.0
257	11/1/2018	13:56:49	0.0	0.0	0.0	0.0
258	11/1/2018	13:57:49	0.0	0.0	0.0	0.0
259	11/1/2018	13:58:49	0.0	0.0	0.0	0.0
260	11/1/2018	13:59:49	0.0	0.0	0.0	0.0
261	11/1/2018	14:00:49	0.0	0.0	0.0	0.0
262	11/1/2018	14:01:49	0.0	0.0	0.0	0.0
263	11/1/2018	14:02:49	0.0	0.0	0.0	0.0
264	11/1/2018	14:03:49	0.0	0.0	0.0	0.0
265	11/1/2018	14:04:49	0.0	0.0	0.0	0.0
266	11/1/2018	14:05:49	0.0	0.0	0.0	0.0
267	11/1/2018	14:06:49	0.0	0.0	0.0	0.0
268	11/1/2018	14:07:49	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

269	11/1/2018	14:08:49	0.0	0.0	0.0	0.0
270	11/1/2018	14:09:49	0.0	0.0	0.0	0.0
271	11/1/2018	14:10:49	0.0	0.0	0.0	0.0
272	11/1/2018	14:11:49	0.0	0.0	0.0	0.0
273	11/1/2018	14:12:49	0.0	0.0	0.0	0.0
274	11/1/2018	14:13:49	0.0	0.0	0.0	0.0
275	11/1/2018	14:14:49	0.0	0.0	0.0	0.0
276	11/1/2018	14:15:49	0.0	0.0	0.0	0.0
277	11/1/2018	14:16:49	0.0	0.0	0.0	0.0
278	11/1/2018	14:17:49	0.0	0.0	0.0	0.0
279	11/1/2018	14:18:49	0.0	0.0	0.0	0.0
280	11/1/2018	14:19:49	0.0	0.0	0.0	0.0
281	11/1/2018	14:20:49	0.0	0.0	0.0	0.0
282	11/1/2018	14:21:49	0.0	0.0	0.0	0.0
283	11/1/2018	14:22:49	0.0	0.0	0.0	0.0
284	11/1/2018	14:23:49	0.0	0.0	0.0	0.0
285	11/1/2018	14:24:49	0.0	0.0	0.0	0.0
286	11/1/2018	14:25:49	0.0	0.0	0.0	0.0
287	11/1/2018	14:26:49	0.0	0.0	0.0	0.0
288	11/1/2018	14:27:49	0.0	0.0	0.0	0.0
289	11/1/2018	14:28:49	0.0	0.0	0.0	0.0
290	11/1/2018	14:29:49	0.0	0.0	0.0	0.0
291	11/1/2018	14:30:49	0.0	0.0	0.0	0.0
292	11/1/2018	14:31:49	0.0	0.0	0.0	0.0
293	11/1/2018	14:32:49	0.0	0.0	0.0	0.0
294	11/1/2018	14:33:49	0.0	0.0	0.0	0.0
295	11/1/2018	14:34:49	0.0	0.0	0.0	0.0
296	11/1/2018	14:35:49	0.0	0.0	0.0	0.0
297	11/1/2018	14:36:49	0.0	0.0	0.0	0.0
298	11/1/2018	14:37:49	0.0	0.0	0.0	0.0
299	11/1/2018	14:38:49	0.0	0.0	0.0	0.0
300	11/1/2018	14:39:49	0.0	0.0	0.0	0.0
301	11/1/2018	14:40:49	0.0	0.0	0.0	0.0
302	11/1/2018	14:41:49	0.0	0.0	0.0	0.0
303	11/1/2018	14:42:49	0.0	0.0	0.0	0.0
304	11/1/2018	14:43:49	0.0	0.0	0.0	0.0
305	11/1/2018	14:44:49	0.0	0.0	0.0	0.0
306	11/1/2018	14:45:49	0.0	0.0	0.0	0.0
307	11/1/2018	14:46:49	0.0	0.0	0.0	0.0
308	11/1/2018	14:47:49	0.0	0.0	0.0	0.0
309	11/1/2018	14:48:49	0.0	0.0	0.0	0.0
310	11/1/2018	14:49:49	0.0	0.0	0.0	0.0
311	11/1/2018	14:50:49	0.0	0.0	0.0	0.0
312	11/1/2018	14:51:49	0.0	0.0	0.0	0.0
313	11/1/2018	14:52:49	0.0	0.0	0.0	0.0
314	11/1/2018	14:53:49	0.0	0.0	0.0	0.0
315	11/1/2018	14:54:49	0.0	0.0	0.0	0.0
316	11/1/2018	14:55:49	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

317	11/1/2018	14:56:49	0.0	0.0	0.0	0.0
318	11/1/2018	14:57:49	0.0	0.0	0.0	0.0
319	11/1/2018	14:58:49	0.0	0.0	0.0	0.0
320	11/1/2018	14:59:49	0.0	0.0	0.0	0.0
321	11/1/2018	15:00:49	0.0	0.0	0.0	0.0
322	11/1/2018	15:01:49	0.0	0.0	0.0	0.0
323	11/1/2018	15:02:49	0.0	0.0	0.0	0.0
324	11/1/2018	15:03:49	0.0	0.0	0.0	0.0
325	11/1/2018	15:04:49	0.0	0.0	0.0	0.0
326	11/1/2018	15:05:49	0.0	0.0	0.0	0.0
327	11/1/2018	15:06:49	0.0	0.0	0.0	0.0
328	11/1/2018	15:07:49	0.0	0.0	0.0	0.0
329	11/1/2018	15:08:49	0.0	0.0	0.0	0.0
330	11/1/2018	15:09:49	0.0	0.0	0.0	0.0
Peak		0.2	0.2	0.2	0.2	
Min		0.0	0.0	0.0	0.0	
Average		0.0	0.0	0.0	0.0	

TWA/STEL

Index	Date/Time	PID(ppm) (TWA)	PID(ppm) (STEL)
001	11/1/2018 09:40:49	0.0	---
002	11/1/2018 09:41:49	0.0	---
003	11/1/2018 09:42:49	0.0	---
004	11/1/2018 09:43:49	0.0	---
005	11/1/2018 09:44:49	0.0	---
006	11/1/2018 09:45:49	0.0	---
007	11/1/2018 09:46:49	0.0	---
008	11/1/2018 09:47:49	0.0	---
009	11/1/2018 09:48:49	0.0	---
010	11/1/2018 09:49:49	0.0	---
011	11/1/2018 09:50:49	0.0	---
012	11/1/2018 09:51:49	0.0	---
013	11/1/2018 09:52:49	0.0	---
014	11/1/2018 09:53:49	0.0	---
015	11/1/2018 09:54:49	0.0	0.0
016	11/1/2018 09:55:49	0.0	0.0
017	11/1/2018 09:56:49	0.0	0.0
018	11/1/2018 09:57:49	0.0	0.0
019	11/1/2018 09:58:49	0.0	0.0
020	11/1/2018 09:59:49	0.0	0.0
021	11/1/2018 10:00:49	0.0	0.0
022	11/1/2018 10:01:49	0.0	0.0
023	11/1/2018 10:02:49	0.0	0.0
024	11/1/2018 10:03:49	0.0	0.0
025	11/1/2018 10:04:49	0.0	0.0
026	11/1/2018 10:05:49	0.0	0.0

PRS_EXPORT_20181119.txt38160

027	11/1/2018	10:06:49	0.0	0.0
028	11/1/2018	10:07:49	0.0	0.0
029	11/1/2018	10:08:49	0.0	0.0
030	11/1/2018	10:09:49	0.0	0.0
031	11/1/2018	10:10:49	0.0	0.0
032	11/1/2018	10:11:49	0.0	0.0
033	11/1/2018	10:12:49	0.0	0.0
034	11/1/2018	10:13:49	0.0	0.0
035	11/1/2018	10:14:49	0.0	0.0
036	11/1/2018	10:15:49	0.0	0.0
037	11/1/2018	10:16:49	0.0	0.0
038	11/1/2018	10:17:49	0.0	0.0
039	11/1/2018	10:18:49	0.0	0.0
040	11/1/2018	10:19:49	0.0	0.0
041	11/1/2018	10:20:49	0.0	0.0
042	11/1/2018	10:21:49	0.0	0.0
043	11/1/2018	10:22:49	0.0	0.0
044	11/1/2018	10:23:49	0.0	0.0
045	11/1/2018	10:24:49	0.0	0.0
046	11/1/2018	10:25:49	0.0	0.0
047	11/1/2018	10:26:49	0.0	0.0
048	11/1/2018	10:27:49	0.0	0.0
049	11/1/2018	10:28:49	0.0	0.0
050	11/1/2018	10:29:49	0.0	0.0
051	11/1/2018	10:30:49	0.0	0.0
052	11/1/2018	10:31:49	0.0	0.0
053	11/1/2018	10:32:49	0.0	0.0
054	11/1/2018	10:33:49	0.0	0.0
055	11/1/2018	10:34:49	0.0	0.0
056	11/1/2018	10:35:49	0.0	0.0
057	11/1/2018	10:36:49	0.0	0.0
058	11/1/2018	10:37:49	0.0	0.0
059	11/1/2018	10:38:49	0.0	0.0
060	11/1/2018	10:39:49	0.0	0.0
061	11/1/2018	10:40:49	0.0	0.0
062	11/1/2018	10:41:49	0.0	0.0
063	11/1/2018	10:42:49	0.0	0.0
064	11/1/2018	10:43:49	0.0	0.0
065	11/1/2018	10:44:49	0.0	0.0
066	11/1/2018	10:45:49	0.0	0.0
067	11/1/2018	10:46:49	0.0	0.0
068	11/1/2018	10:47:49	0.0	0.0
069	11/1/2018	10:48:49	0.0	0.0
070	11/1/2018	10:49:49	0.0	0.0
071	11/1/2018	10:50:49	0.0	0.0
072	11/1/2018	10:51:49	0.0	0.0
073	11/1/2018	10:52:49	0.0	0.0
074	11/1/2018	10:53:49	0.0	0.0

PRS_EXPORT_20181119.txt38160

075	11/1/2018	10:54:49	0.0	0.0
076	11/1/2018	10:55:49	0.0	0.0
077	11/1/2018	10:56:49	0.0	0.0
078	11/1/2018	10:57:49	0.0	0.0
079	11/1/2018	10:58:49	0.0	0.0
080	11/1/2018	10:59:49	0.0	0.0
081	11/1/2018	11:00:49	0.0	0.0
082	11/1/2018	11:01:49	0.0	0.0
083	11/1/2018	11:02:49	0.0	0.1
084	11/1/2018	11:03:49	0.0	0.1
085	11/1/2018	11:04:49	0.0	0.1
086	11/1/2018	11:05:49	0.0	0.1
087	11/1/2018	11:06:49	0.0	0.1
088	11/1/2018	11:07:49	0.0	0.1
089	11/1/2018	11:08:49	0.0	0.1
090	11/1/2018	11:09:49	0.0	0.1
091	11/1/2018	11:10:49	0.0	0.1
092	11/1/2018	11:11:49	0.0	0.1
093	11/1/2018	11:12:49	0.0	0.1
094	11/1/2018	11:13:49	0.0	0.1
095	11/1/2018	11:14:49	0.0	0.1
096	11/1/2018	11:15:49	0.0	0.1
097	11/1/2018	11:16:49	0.0	0.1
098	11/1/2018	11:17:49	0.0	0.1
099	11/1/2018	11:18:49	0.0	0.1
100	11/1/2018	11:19:49	0.0	0.1
101	11/1/2018	11:20:49	0.0	0.1
102	11/1/2018	11:21:49	0.0	0.1
103	11/1/2018	11:22:49	0.0	0.1
104	11/1/2018	11:23:49	0.0	0.1
105	11/1/2018	11:24:49	0.0	0.1
106	11/1/2018	11:25:49	0.0	0.1
107	11/1/2018	11:26:49	0.0	0.1
108	11/1/2018	11:27:49	0.0	0.1
109	11/1/2018	11:28:49	0.0	0.1
110	11/1/2018	11:29:49	0.0	0.1
111	11/1/2018	11:30:49	0.0	0.1
112	11/1/2018	11:31:49	0.0	0.1
113	11/1/2018	11:32:49	0.0	0.1
114	11/1/2018	11:33:49	0.0	0.1
115	11/1/2018	11:34:49	0.0	0.1
116	11/1/2018	11:35:49	0.0	0.1
117	11/1/2018	11:36:49	0.0	0.1
118	11/1/2018	11:37:49	0.0	0.1
119	11/1/2018	11:38:49	0.0	0.1
120	11/1/2018	11:39:49	0.0	0.1
121	11/1/2018	11:40:49	0.0	0.1
122	11/1/2018	11:41:49	0.0	0.1

PRS_EXPORT_20181119.txt38160

123	11/1/2018	11:42:49	0.0	0.1
124	11/1/2018	11:43:49	0.0	0.1
125	11/1/2018	11:44:49	0.0	0.1
126	11/1/2018	11:45:49	0.0	0.1
127	11/1/2018	11:46:49	0.0	0.1
128	11/1/2018	11:47:49	0.0	0.1
129	11/1/2018	11:48:49	0.0	0.1
130	11/1/2018	11:49:49	0.0	0.1
131	11/1/2018	11:50:49	0.0	0.1
132	11/1/2018	11:51:49	0.0	0.1
133	11/1/2018	11:52:49	0.0	0.1
134	11/1/2018	11:53:49	0.0	0.1
135	11/1/2018	11:54:49	0.0	0.1
136	11/1/2018	11:55:49	0.0	0.1
137	11/1/2018	11:56:49	0.0	0.1
138	11/1/2018	11:57:49	0.0	0.1
139	11/1/2018	11:58:49	0.0	0.1
140	11/1/2018	11:59:49	0.0	0.1
141	11/1/2018	12:00:49	0.0	0.1
142	11/1/2018	12:01:49	0.0	0.1
143	11/1/2018	12:02:49	0.0	0.1
144	11/1/2018	12:03:49	0.0	0.1
145	11/1/2018	12:04:49	0.0	0.1
146	11/1/2018	12:05:49	0.0	0.1
147	11/1/2018	12:06:49	0.0	0.1
148	11/1/2018	12:07:49	0.0	0.1
149	11/1/2018	12:08:49	0.0	0.1
150	11/1/2018	12:09:49	0.0	0.1
151	11/1/2018	12:10:49	0.0	0.1
152	11/1/2018	12:11:49	0.0	0.1
153	11/1/2018	12:12:49	0.0	0.1
154	11/1/2018	12:13:49	0.0	0.1
155	11/1/2018	12:14:49	0.0	0.1
156	11/1/2018	12:15:49	0.0	0.1
157	11/1/2018	12:16:49	0.0	0.1
158	11/1/2018	12:17:49	0.0	0.1
159	11/1/2018	12:18:49	0.0	0.1
160	11/1/2018	12:19:49	0.0	0.1
161	11/1/2018	12:20:49	0.0	0.1
162	11/1/2018	12:21:49	0.0	0.1
163	11/1/2018	12:22:49	0.0	0.1
164	11/1/2018	12:23:49	0.0	0.1
165	11/1/2018	12:24:49	0.0	0.1
166	11/1/2018	12:25:49	0.0	0.1
167	11/1/2018	12:26:49	0.0	0.1
168	11/1/2018	12:27:49	0.0	0.1
169	11/1/2018	12:28:49	0.0	0.1
170	11/1/2018	12:29:49	0.0	0.1

PRS_EXPORT_20181119.txt38160

171	11/1/2018	12:30:49	0.0	0.1
172	11/1/2018	12:31:49	0.0	0.1
173	11/1/2018	12:32:49	0.0	0.1
174	11/1/2018	12:33:49	0.0	0.1
175	11/1/2018	12:34:49	0.0	0.1
176	11/1/2018	12:35:49	0.0	0.1
177	11/1/2018	12:36:49	0.0	0.1
178	11/1/2018	12:37:49	0.0	0.1
179	11/1/2018	12:38:49	0.0	0.1
180	11/1/2018	12:39:49	0.0	0.1
181	11/1/2018	12:40:49	0.0	0.1
182	11/1/2018	12:41:49	0.0	0.1
183	11/1/2018	12:42:49	0.0	0.1
184	11/1/2018	12:43:49	0.0	0.1
185	11/1/2018	12:44:49	0.0	0.1
186	11/1/2018	12:45:49	0.0	0.1
187	11/1/2018	12:46:49	0.0	0.1
188	11/1/2018	12:47:49	0.0	0.1
189	11/1/2018	12:48:49	0.0	0.1
190	11/1/2018	12:49:49	0.0	0.1
191	11/1/2018	12:50:49	0.0	0.1
192	11/1/2018	12:51:49	0.0	0.1
193	11/1/2018	12:52:49	0.0	0.1
194	11/1/2018	12:53:49	0.0	0.1
195	11/1/2018	12:54:49	0.0	0.1
196	11/1/2018	12:55:49	0.0	0.1
197	11/1/2018	12:56:49	0.0	0.1
198	11/1/2018	12:57:49	0.0	0.1
199	11/1/2018	12:58:49	0.0	0.1
200	11/1/2018	12:59:49	0.0	0.1
201	11/1/2018	13:00:49	0.0	0.1
202	11/1/2018	13:01:49	0.0	0.1
203	11/1/2018	13:02:49	0.0	0.1
204	11/1/2018	13:03:49	0.0	0.1
205	11/1/2018	13:04:49	0.0	0.1
206	11/1/2018	13:05:49	0.0	0.1
207	11/1/2018	13:06:49	0.0	0.1
208	11/1/2018	13:07:49	0.0	0.1
209	11/1/2018	13:08:49	0.0	0.1
210	11/1/2018	13:09:49	0.0	0.1
211	11/1/2018	13:10:49	0.0	0.1
212	11/1/2018	13:11:49	0.0	0.1
213	11/1/2018	13:12:49	0.0	0.0
214	11/1/2018	13:13:49	0.0	0.0
215	11/1/2018	13:14:49	0.0	0.0
216	11/1/2018	13:15:49	0.0	0.0
217	11/1/2018	13:16:49	0.0	0.0
218	11/1/2018	13:17:49	0.0	0.0

PRS_EXPORT_20181119.txt38160

219	11/1/2018	13:18:49	0.0	0.0
220	11/1/2018	13:19:49	0.0	0.0
221	11/1/2018	13:20:49	0.0	0.0
222	11/1/2018	13:21:49	0.0	0.0
223	11/1/2018	13:22:49	0.0	0.0
224	11/1/2018	13:23:49	0.0	0.0
225	11/1/2018	13:24:49	0.0	0.0
226	11/1/2018	13:25:49	0.0	0.0
227	11/1/2018	13:26:49	0.0	0.0
228	11/1/2018	13:27:49	0.0	0.0
229	11/1/2018	13:28:49	0.0	0.0
230	11/1/2018	13:29:49	0.0	0.0
231	11/1/2018	13:30:49	0.0	0.0
232	11/1/2018	13:31:49	0.0	0.0
233	11/1/2018	13:32:49	0.0	0.0
234	11/1/2018	13:33:49	0.0	0.0
235	11/1/2018	13:34:49	0.0	0.0
236	11/1/2018	13:35:49	0.0	0.0
237	11/1/2018	13:36:49	0.0	0.0
238	11/1/2018	13:37:49	0.0	0.0
239	11/1/2018	13:38:49	0.0	0.0
240	11/1/2018	13:39:49	0.0	0.0
241	11/1/2018	13:40:49	0.0	0.0
242	11/1/2018	13:41:49	0.0	0.0
243	11/1/2018	13:42:49	0.0	0.0
244	11/1/2018	13:43:49	0.0	0.0
245	11/1/2018	13:44:49	0.0	0.0
246	11/1/2018	13:45:49	0.0	0.0
247	11/1/2018	13:46:49	0.0	0.0
248	11/1/2018	13:47:49	0.0	0.0
249	11/1/2018	13:48:49	0.0	0.0
250	11/1/2018	13:49:49	0.0	0.0
251	11/1/2018	13:50:49	0.0	0.0
252	11/1/2018	13:51:49	0.0	0.0
253	11/1/2018	13:52:49	0.0	0.0
254	11/1/2018	13:53:49	0.0	0.0
255	11/1/2018	13:54:49	0.0	0.0
256	11/1/2018	13:55:49	0.0	0.0
257	11/1/2018	13:56:49	0.0	0.0
258	11/1/2018	13:57:49	0.0	0.0
259	11/1/2018	13:58:49	0.0	0.0
260	11/1/2018	13:59:49	0.0	0.0
261	11/1/2018	14:00:49	0.0	0.0
262	11/1/2018	14:01:49	0.0	0.0
263	11/1/2018	14:02:49	0.0	0.0
264	11/1/2018	14:03:49	0.0	0.0
265	11/1/2018	14:04:49	0.0	0.0
266	11/1/2018	14:05:49	0.0	0.0

PRS_EXPORT_20181119.txt38160

267	11/1/2018	14:06:49	0.0	0.0
268	11/1/2018	14:07:49	0.0	0.0
269	11/1/2018	14:08:49	0.0	0.0
270	11/1/2018	14:09:49	0.0	0.0
271	11/1/2018	14:10:49	0.0	0.0
272	11/1/2018	14:11:49	0.0	0.0
273	11/1/2018	14:12:49	0.0	0.0
274	11/1/2018	14:13:49	0.0	0.0
275	11/1/2018	14:14:49	0.0	0.0
276	11/1/2018	14:15:49	0.0	0.0
277	11/1/2018	14:16:49	0.0	0.0
278	11/1/2018	14:17:49	0.0	0.0
279	11/1/2018	14:18:49	0.0	0.0
280	11/1/2018	14:19:49	0.0	0.0
281	11/1/2018	14:20:49	0.0	0.0
282	11/1/2018	14:21:49	0.0	0.0
283	11/1/2018	14:22:49	0.0	0.0
284	11/1/2018	14:23:49	0.0	0.0
285	11/1/2018	14:24:49	0.0	0.0
286	11/1/2018	14:25:49	0.0	0.0
287	11/1/2018	14:26:49	0.0	0.0
288	11/1/2018	14:27:49	0.0	0.0
289	11/1/2018	14:28:49	0.0	0.0
290	11/1/2018	14:29:49	0.0	0.0
291	11/1/2018	14:30:49	0.0	0.0
292	11/1/2018	14:31:49	0.0	0.0
293	11/1/2018	14:32:49	0.0	0.0
294	11/1/2018	14:33:49	0.0	0.0
295	11/1/2018	14:34:49	0.0	0.0
296	11/1/2018	14:35:49	0.0	0.0
297	11/1/2018	14:36:49	0.0	0.0
298	11/1/2018	14:37:49	0.0	0.0
299	11/1/2018	14:38:49	0.0	0.0
300	11/1/2018	14:39:49	0.0	0.0
301	11/1/2018	14:40:49	0.0	0.0
302	11/1/2018	14:41:49	0.0	0.0
303	11/1/2018	14:42:49	0.0	0.0
304	11/1/2018	14:43:49	0.0	0.0
305	11/1/2018	14:44:49	0.0	0.0
306	11/1/2018	14:45:49	0.0	0.0
307	11/1/2018	14:46:49	0.0	0.0
308	11/1/2018	14:47:49	0.0	0.0
309	11/1/2018	14:48:49	0.0	0.0
310	11/1/2018	14:49:49	0.0	0.0
311	11/1/2018	14:50:49	0.0	0.0
312	11/1/2018	14:51:49	0.0	0.0
313	11/1/2018	14:52:49	0.0	0.0
314	11/1/2018	14:53:49	0.0	0.0

315	11/1/2018	14:54:49	0.0	0.0
316	11/1/2018	14:55:49	0.0	0.0
317	11/1/2018	14:56:49	0.0	0.0
318	11/1/2018	14:57:49	0.0	0.0
319	11/1/2018	14:58:49	0.0	0.0
320	11/1/2018	14:59:49	0.0	0.0
321	11/1/2018	15:00:49	0.0	0.0
322	11/1/2018	15:01:49	0.0	0.0
323	11/1/2018	15:02:49	0.0	0.0
324	11/1/2018	15:03:49	0.0	0.0
325	11/1/2018	15:04:49	0.0	0.0
326	11/1/2018	15:05:49	0.0	0.0
327	11/1/2018	15:06:49	0.0	0.0
328	11/1/2018	15:07:49	0.0	0.0
329	11/1/2018	15:08:49	0.0	0.0
330	11/1/2018	15:09:49	0.0	0.0

=====
18/11/13 12:52

Summary

Unit Name MiniRAE 3000(PGM-7320)
Unit SN 592-919975
Unit Firmware Ver V2.14

Running Mode Hygiene Mode
Datalog Mode Manual
Diagnostic Mode No
Stop Reason Power Down

Site ID RAE00000
User ID UW000000

Begin 11/13/2018 12:52:48
End 11/13/2018 16:44:48
Sample Period(s) 60
Number of Records 232

Sensor PID(ppm)
Sensor SN S023030116U2
Measure Type Min; Avg; Max; Real
Span 100.0
Span 2 1000.0
Low Alarm 50.0
High Alarm 100.0
Over Alarm 15000.0
STEL Alarm 25.0
TWA Alarm 10.0

Measurement Gas Isobutylene
 Calibration Time 10/31/2018 15:37
 Peak 0.0
 Min 0.0
 Average 0.0

Datalog

Index	Date/Time	PID(ppm) (Min)	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)	PID(ppm)
001	11/13/2018 12:53:48	0.0	0.0	0.0	0.0	0.0
002	11/13/2018 12:54:48	0.0	0.0	0.0	0.0	0.0
003	11/13/2018 12:55:48	0.0	0.0	0.0	0.0	0.0
004	11/13/2018 12:56:48	0.0	0.0	0.0	0.0	0.0
005	11/13/2018 12:57:48	0.0	0.0	0.0	0.0	0.0
006	11/13/2018 12:58:48	0.0	0.0	0.0	0.0	0.0
007	11/13/2018 12:59:48	0.0	0.0	0.0	0.0	0.0
008	11/13/2018 13:00:48	0.0	0.0	0.0	0.0	0.0
009	11/13/2018 13:01:48	0.0	0.0	0.0	0.0	0.0
010	11/13/2018 13:02:48	0.0	0.0	0.0	0.0	0.0
011	11/13/2018 13:03:48	0.0	0.0	0.0	0.0	0.0
012	11/13/2018 13:04:48	0.0	0.0	0.0	0.0	0.0
013	11/13/2018 13:05:48	0.0	0.0	0.0	0.0	0.0
014	11/13/2018 13:06:48	0.0	0.0	0.0	0.0	0.0
015	11/13/2018 13:07:48	0.0	0.0	0.0	0.0	0.0
016	11/13/2018 13:08:48	0.0	0.0	0.0	0.0	0.0
017	11/13/2018 13:09:48	0.0	0.0	0.0	0.0	0.0
018	11/13/2018 13:10:48	0.0	0.0	0.0	0.0	0.0
019	11/13/2018 13:11:48	0.0	0.0	0.0	0.0	0.0
020	11/13/2018 13:12:48	0.0	0.0	0.0	0.0	0.0
021	11/13/2018 13:13:48	0.0	0.0	0.0	0.0	0.0
022	11/13/2018 13:14:48	0.0	0.0	0.0	0.0	0.0
023	11/13/2018 13:15:48	0.0	0.0	0.0	0.0	0.0
024	11/13/2018 13:16:48	0.0	0.0	0.0	0.0	0.0
025	11/13/2018 13:17:48	0.0	0.0	0.0	0.0	0.0
026	11/13/2018 13:18:48	0.0	0.0	0.0	0.0	0.0
027	11/13/2018 13:19:48	0.0	0.0	0.0	0.0	0.0
028	11/13/2018 13:20:48	0.0	0.0	0.0	0.0	0.0
029	11/13/2018 13:21:48	0.0	0.0	0.0	0.0	0.0
030	11/13/2018 13:22:48	0.0	0.0	0.0	0.0	0.0
031	11/13/2018 13:23:48	0.0	0.0	0.0	0.0	0.0
032	11/13/2018 13:24:48	0.0	0.0	0.0	0.0	0.0
033	11/13/2018 13:25:48	0.0	0.0	0.0	0.0	0.0
034	11/13/2018 13:26:48	0.0	0.0	0.0	0.0	0.0
035	11/13/2018 13:27:48	0.0	0.0	0.0	0.0	0.0
036	11/13/2018 13:28:48	0.0	0.0	0.0	0.0	0.0
037	11/13/2018 13:29:48	0.0	0.0	0.0	0.0	0.0
038	11/13/2018 13:30:48	0.0	0.0	0.0	0.0	0.0

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039	11/13/2018	13:31:48	0.0	0.0	0.0	0.0
040	11/13/2018	13:32:48	0.0	0.0	0.0	0.0
041	11/13/2018	13:33:48	0.0	0.0	0.0	0.0
042	11/13/2018	13:34:48	0.0	0.0	0.0	0.0
043	11/13/2018	13:35:48	0.0	0.0	0.0	0.0
044	11/13/2018	13:36:48	0.0	0.0	0.0	0.0
045	11/13/2018	13:37:48	0.0	0.0	0.0	0.0
046	11/13/2018	13:38:48	0.0	0.0	0.0	0.0
047	11/13/2018	13:39:48	0.0	0.0	0.0	0.0
048	11/13/2018	13:40:48	0.0	0.0	0.0	0.0
049	11/13/2018	13:41:48	0.0	0.0	0.0	0.0
050	11/13/2018	13:42:48	0.0	0.0	0.0	0.0
051	11/13/2018	13:43:48	0.0	0.0	0.0	0.0
052	11/13/2018	13:44:48	0.0	0.0	0.0	0.0
053	11/13/2018	13:45:48	0.0	0.0	0.0	0.0
054	11/13/2018	13:46:48	0.0	0.0	0.0	0.0
055	11/13/2018	13:47:48	0.0	0.0	0.0	0.0
056	11/13/2018	13:48:48	0.0	0.0	0.0	0.0
057	11/13/2018	13:49:48	0.0	0.0	0.0	0.0
058	11/13/2018	13:50:48	0.0	0.0	0.0	0.0
059	11/13/2018	13:51:48	0.0	0.0	0.0	0.0
060	11/13/2018	13:52:48	0.0	0.0	0.0	0.0
061	11/13/2018	13:53:48	0.0	0.0	0.0	0.0
062	11/13/2018	13:54:48	0.0	0.0	0.0	0.0
063	11/13/2018	13:55:48	0.0	0.0	0.0	0.0
064	11/13/2018	13:56:48	0.0	0.0	0.0	0.0
065	11/13/2018	13:57:48	0.0	0.0	0.0	0.0
066	11/13/2018	13:58:48	0.0	0.0	0.0	0.0
067	11/13/2018	13:59:48	0.0	0.0	0.0	0.0
068	11/13/2018	14:00:48	0.0	0.0	0.0	0.0
069	11/13/2018	14:01:48	0.0	0.0	0.0	0.0
070	11/13/2018	14:02:48	0.0	0.0	0.0	0.0
071	11/13/2018	14:03:48	0.0	0.0	0.0	0.0
072	11/13/2018	14:04:48	0.0	0.0	0.0	0.0
073	11/13/2018	14:05:48	0.0	0.0	0.0	0.0
074	11/13/2018	14:06:48	0.0	0.0	0.0	0.0
075	11/13/2018	14:07:48	0.0	0.0	0.0	0.0
076	11/13/2018	14:08:48	0.0	0.0	0.0	0.0
077	11/13/2018	14:09:48	0.0	0.0	0.0	0.0
078	11/13/2018	14:10:48	0.0	0.0	0.0	0.0
079	11/13/2018	14:11:48	0.0	0.0	0.0	0.0
080	11/13/2018	14:12:48	0.0	0.0	0.0	0.0
081	11/13/2018	14:13:48	0.0	0.0	0.0	0.0
082	11/13/2018	14:14:48	0.0	0.0	0.0	0.0
083	11/13/2018	14:15:48	0.0	0.0	0.0	0.0
084	11/13/2018	14:16:48	0.0	0.0	0.0	0.0
085	11/13/2018	14:17:48	0.0	0.0	0.0	0.0
086	11/13/2018	14:18:48	0.0	0.0	0.0	0.0

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087	11/13/2018	14:19:48	0.0	0.0	0.0	0.0
088	11/13/2018	14:20:48	0.0	0.0	0.0	0.0
089	11/13/2018	14:21:48	0.0	0.0	0.0	0.0
090	11/13/2018	14:22:48	0.0	0.0	0.0	0.0
091	11/13/2018	14:23:48	0.0	0.0	0.0	0.0
092	11/13/2018	14:24:48	0.0	0.0	0.0	0.0
093	11/13/2018	14:25:48	0.0	0.0	0.0	0.0
094	11/13/2018	14:26:48	0.0	0.0	0.0	0.0
095	11/13/2018	14:27:48	0.0	0.0	0.0	0.0
096	11/13/2018	14:28:48	0.0	0.0	0.0	0.0
097	11/13/2018	14:29:48	0.0	0.0	0.0	0.0
098	11/13/2018	14:30:48	0.0	0.0	0.0	0.0
099	11/13/2018	14:31:48	0.0	0.0	0.0	0.0
100	11/13/2018	14:32:48	0.0	0.0	0.0	0.0
101	11/13/2018	14:33:48	0.0	0.0	0.0	0.0
102	11/13/2018	14:34:48	0.0	0.0	0.0	0.0
103	11/13/2018	14:35:48	0.0	0.0	0.0	0.0
104	11/13/2018	14:36:48	0.0	0.0	0.0	0.0
105	11/13/2018	14:37:48	0.0	0.0	0.0	0.0
106	11/13/2018	14:38:48	0.0	0.0	0.0	0.0
107	11/13/2018	14:39:48	0.0	0.0	0.0	0.0
108	11/13/2018	14:40:48	0.0	0.0	0.0	0.0
109	11/13/2018	14:41:48	0.0	0.0	0.0	0.0
110	11/13/2018	14:42:48	0.0	0.0	0.0	0.0
111	11/13/2018	14:43:48	0.0	0.0	0.0	0.0
112	11/13/2018	14:44:48	0.0	0.0	0.0	0.0
113	11/13/2018	14:45:48	0.0	0.0	0.0	0.0
114	11/13/2018	14:46:48	0.0	0.0	0.0	0.0
115	11/13/2018	14:47:48	0.0	0.0	0.0	0.0
116	11/13/2018	14:48:48	0.0	0.0	0.0	0.0
117	11/13/2018	14:49:48	0.0	0.0	0.0	0.0
118	11/13/2018	14:50:48	0.0	0.0	0.0	0.0
119	11/13/2018	14:51:48	0.0	0.0	0.0	0.0
120	11/13/2018	14:52:48	0.0	0.0	0.0	0.0
121	11/13/2018	14:53:48	0.0	0.0	0.0	0.0
122	11/13/2018	14:54:48	0.0	0.0	0.0	0.0
123	11/13/2018	14:55:48	0.0	0.0	0.0	0.0
124	11/13/2018	14:56:48	0.0	0.0	0.0	0.0
125	11/13/2018	14:57:48	0.0	0.0	0.0	0.0
126	11/13/2018	14:58:48	0.0	0.0	0.0	0.0
127	11/13/2018	14:59:48	0.0	0.0	0.0	0.0
128	11/13/2018	15:00:48	0.0	0.0	0.0	0.0
129	11/13/2018	15:01:48	0.0	0.0	0.0	0.0
130	11/13/2018	15:02:48	0.0	0.0	0.0	0.0
131	11/13/2018	15:03:48	0.0	0.0	0.0	0.0
132	11/13/2018	15:04:48	0.0	0.0	0.0	0.0
133	11/13/2018	15:05:48	0.0	0.0	0.0	0.0
134	11/13/2018	15:06:48	0.0	0.0	0.0	0.0

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135	11/13/2018	15:07:48	0.0	0.0	0.0	0.0
136	11/13/2018	15:08:48	0.0	0.0	0.0	0.0
137	11/13/2018	15:09:48	0.0	0.0	0.0	0.0
138	11/13/2018	15:10:48	0.0	0.0	0.0	0.0
139	11/13/2018	15:11:48	0.0	0.0	0.0	0.0
140	11/13/2018	15:12:48	0.0	0.0	0.0	0.0
141	11/13/2018	15:13:48	0.0	0.0	0.0	0.0
142	11/13/2018	15:14:48	0.0	0.0	0.0	0.0
143	11/13/2018	15:15:48	0.0	0.0	0.0	0.0
144	11/13/2018	15:16:48	0.0	0.0	0.0	0.0
145	11/13/2018	15:17:48	0.0	0.0	0.0	0.0
146	11/13/2018	15:18:48	0.0	0.0	0.0	0.0
147	11/13/2018	15:19:48	0.0	0.0	0.0	0.0
148	11/13/2018	15:20:48	0.0	0.0	0.0	0.0
149	11/13/2018	15:21:48	0.0	0.0	0.0	0.0
150	11/13/2018	15:22:48	0.0	0.0	0.0	0.0
151	11/13/2018	15:23:48	0.0	0.0	0.0	0.0
152	11/13/2018	15:24:48	0.0	0.0	0.0	0.0
153	11/13/2018	15:25:48	0.0	0.0	0.0	0.0
154	11/13/2018	15:26:48	0.0	0.0	0.0	0.0
155	11/13/2018	15:27:48	0.0	0.0	0.0	0.0
156	11/13/2018	15:28:48	0.0	0.0	0.0	0.0
157	11/13/2018	15:29:48	0.0	0.0	0.0	0.0
158	11/13/2018	15:30:48	0.0	0.0	0.0	0.0
159	11/13/2018	15:31:48	0.0	0.0	0.0	0.0
160	11/13/2018	15:32:48	0.0	0.0	0.0	0.0
161	11/13/2018	15:33:48	0.0	0.0	0.0	0.0
162	11/13/2018	15:34:48	0.0	0.0	0.0	0.0
163	11/13/2018	15:35:48	0.0	0.0	0.0	0.0
164	11/13/2018	15:36:48	0.0	0.0	0.0	0.0
165	11/13/2018	15:37:48	0.0	0.0	0.0	0.0
166	11/13/2018	15:38:48	0.0	0.0	0.0	0.0
167	11/13/2018	15:39:48	0.0	0.0	0.0	0.0
168	11/13/2018	15:40:48	0.0	0.0	0.0	0.0
169	11/13/2018	15:41:48	0.0	0.0	0.0	0.0
170	11/13/2018	15:42:48	0.0	0.0	0.0	0.0
171	11/13/2018	15:43:48	0.0	0.0	0.0	0.0
172	11/13/2018	15:44:48	0.0	0.0	0.0	0.0
173	11/13/2018	15:45:48	0.0	0.0	0.0	0.0
174	11/13/2018	15:46:48	0.0	0.0	0.0	0.0
175	11/13/2018	15:47:48	0.0	0.0	0.0	0.0
176	11/13/2018	15:48:48	0.0	0.0	0.0	0.0
177	11/13/2018	15:49:48	0.0	0.0	0.0	0.0
178	11/13/2018	15:50:48	0.0	0.0	0.0	0.0
179	11/13/2018	15:51:48	0.0	0.0	0.0	0.0
180	11/13/2018	15:52:48	0.0	0.0	0.0	0.0
181	11/13/2018	15:53:48	0.0	0.0	0.0	0.0
182	11/13/2018	15:54:48	0.0	0.0	0.0	0.0

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183	11/13/2018	15:55:48	0.0	0.0	0.0	0.0
184	11/13/2018	15:56:48	0.0	0.0	0.0	0.0
185	11/13/2018	15:57:48	0.0	0.0	0.0	0.0
186	11/13/2018	15:58:48	0.0	0.0	0.0	0.0
187	11/13/2018	15:59:48	0.0	0.0	0.0	0.0
188	11/13/2018	16:00:48	0.0	0.0	0.0	0.0
189	11/13/2018	16:01:48	0.0	0.0	0.0	0.0
190	11/13/2018	16:02:48	0.0	0.0	0.0	0.0
191	11/13/2018	16:03:48	0.0	0.0	0.0	0.0
192	11/13/2018	16:04:48	0.0	0.0	0.0	0.0
193	11/13/2018	16:05:48	0.0	0.0	0.0	0.0
194	11/13/2018	16:06:48	0.0	0.0	0.0	0.0
195	11/13/2018	16:07:48	0.0	0.0	0.0	0.0
196	11/13/2018	16:08:48	0.0	0.0	0.0	0.0
197	11/13/2018	16:09:48	0.0	0.0	0.0	0.0
198	11/13/2018	16:10:48	0.0	0.0	0.0	0.0
199	11/13/2018	16:11:48	0.0	0.0	0.0	0.0
200	11/13/2018	16:12:48	0.0	0.0	0.0	0.0
201	11/13/2018	16:13:48	0.0	0.0	0.0	0.0
202	11/13/2018	16:14:48	0.0	0.0	0.0	0.0
203	11/13/2018	16:15:48	0.0	0.0	0.0	0.0
204	11/13/2018	16:16:48	0.0	0.0	0.0	0.0
205	11/13/2018	16:17:48	0.0	0.0	0.0	0.0
206	11/13/2018	16:18:48	0.0	0.0	0.0	0.0
207	11/13/2018	16:19:48	0.0	0.0	0.0	0.0
208	11/13/2018	16:20:48	0.0	0.0	0.0	0.0
209	11/13/2018	16:21:48	0.0	0.0	0.0	0.0
210	11/13/2018	16:22:48	0.0	0.0	0.0	0.0
211	11/13/2018	16:23:48	0.0	0.0	0.0	0.0
212	11/13/2018	16:24:48	0.0	0.0	0.0	0.0
213	11/13/2018	16:25:48	0.0	0.0	0.0	0.0
214	11/13/2018	16:26:48	0.0	0.0	0.0	0.0
215	11/13/2018	16:27:48	0.0	0.0	0.0	0.0
216	11/13/2018	16:28:48	0.0	0.0	0.0	0.0
217	11/13/2018	16:29:48	0.0	0.0	0.0	0.0
218	11/13/2018	16:30:48	0.0	0.0	0.0	0.0
219	11/13/2018	16:31:48	0.0	0.0	0.0	0.0
220	11/13/2018	16:32:48	0.0	0.0	0.0	0.0
221	11/13/2018	16:33:48	0.0	0.0	0.0	0.0
222	11/13/2018	16:34:48	0.0	0.0	0.0	0.0
223	11/13/2018	16:35:48	0.0	0.0	0.0	0.0
224	11/13/2018	16:36:48	0.0	0.0	0.0	0.0
225	11/13/2018	16:37:48	0.0	0.0	0.0	0.0
226	11/13/2018	16:38:48	0.0	0.0	0.0	0.0
227	11/13/2018	16:39:48	0.0	0.0	0.0	0.0
228	11/13/2018	16:40:48	0.0	0.0	0.0	0.0
229	11/13/2018	16:41:48	0.0	0.0	0.0	0.0
230	11/13/2018	16:42:48	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

231	11/13/2018	16:43:48	0.0	0.0	0.0	0.0
232	11/13/2018	16:44:48	0.0	0.0	0.0	0.0
Peak		0.0	0.0	0.0	0.0	
Min		0.0	0.0	0.0	0.0	
Average		0.0	0.0	0.0	0.0	

TWA/STEL

Index	Date/Time	PID(ppm) (TWA)	PID(ppm) (STEL)
001	11/13/2018 12:53:48	0.0	---
002	11/13/2018 12:54:48	0.0	---
003	11/13/2018 12:55:48	0.0	---
004	11/13/2018 12:56:48	0.0	---
005	11/13/2018 12:57:48	0.0	---
006	11/13/2018 12:58:48	0.0	---
007	11/13/2018 12:59:48	0.0	---
008	11/13/2018 13:00:48	0.0	---
009	11/13/2018 13:01:48	0.0	---
010	11/13/2018 13:02:48	0.0	---
011	11/13/2018 13:03:48	0.0	---
012	11/13/2018 13:04:48	0.0	---
013	11/13/2018 13:05:48	0.0	---
014	11/13/2018 13:06:48	0.0	---
015	11/13/2018 13:07:48	0.0	0.0
016	11/13/2018 13:08:48	0.0	0.0
017	11/13/2018 13:09:48	0.0	0.0
018	11/13/2018 13:10:48	0.0	0.0
019	11/13/2018 13:11:48	0.0	0.0
020	11/13/2018 13:12:48	0.0	0.0
021	11/13/2018 13:13:48	0.0	0.0
022	11/13/2018 13:14:48	0.0	0.0
023	11/13/2018 13:15:48	0.0	0.0
024	11/13/2018 13:16:48	0.0	0.0
025	11/13/2018 13:17:48	0.0	0.0
026	11/13/2018 13:18:48	0.0	0.0
027	11/13/2018 13:19:48	0.0	0.0
028	11/13/2018 13:20:48	0.0	0.0
029	11/13/2018 13:21:48	0.0	0.0
030	11/13/2018 13:22:48	0.0	0.0
031	11/13/2018 13:23:48	0.0	0.0
032	11/13/2018 13:24:48	0.0	0.0
033	11/13/2018 13:25:48	0.0	0.0
034	11/13/2018 13:26:48	0.0	0.0
035	11/13/2018 13:27:48	0.0	0.0
036	11/13/2018 13:28:48	0.0	0.0
037	11/13/2018 13:29:48	0.0	0.0
038	11/13/2018 13:30:48	0.0	0.0

PRS_EXPORT_20181119.txt38160

039	11/13/2018	13:31:48	0.0	0.0
040	11/13/2018	13:32:48	0.0	0.0
041	11/13/2018	13:33:48	0.0	0.0
042	11/13/2018	13:34:48	0.0	0.0
043	11/13/2018	13:35:48	0.0	0.0
044	11/13/2018	13:36:48	0.0	0.0
045	11/13/2018	13:37:48	0.0	0.0
046	11/13/2018	13:38:48	0.0	0.0
047	11/13/2018	13:39:48	0.0	0.0
048	11/13/2018	13:40:48	0.0	0.0
049	11/13/2018	13:41:48	0.0	0.0
050	11/13/2018	13:42:48	0.0	0.0
051	11/13/2018	13:43:48	0.0	0.0
052	11/13/2018	13:44:48	0.0	0.0
053	11/13/2018	13:45:48	0.0	0.0
054	11/13/2018	13:46:48	0.0	0.0
055	11/13/2018	13:47:48	0.0	0.0
056	11/13/2018	13:48:48	0.0	0.0
057	11/13/2018	13:49:48	0.0	0.0
058	11/13/2018	13:50:48	0.0	0.0
059	11/13/2018	13:51:48	0.0	0.0
060	11/13/2018	13:52:48	0.0	0.0
061	11/13/2018	13:53:48	0.0	0.0
062	11/13/2018	13:54:48	0.0	0.0
063	11/13/2018	13:55:48	0.0	0.0
064	11/13/2018	13:56:48	0.0	0.0
065	11/13/2018	13:57:48	0.0	0.0
066	11/13/2018	13:58:48	0.0	0.0
067	11/13/2018	13:59:48	0.0	0.0
068	11/13/2018	14:00:48	0.0	0.0
069	11/13/2018	14:01:48	0.0	0.0
070	11/13/2018	14:02:48	0.0	0.0
071	11/13/2018	14:03:48	0.0	0.0
072	11/13/2018	14:04:48	0.0	0.0
073	11/13/2018	14:05:48	0.0	0.0
074	11/13/2018	14:06:48	0.0	0.0
075	11/13/2018	14:07:48	0.0	0.0
076	11/13/2018	14:08:48	0.0	0.0
077	11/13/2018	14:09:48	0.0	0.0
078	11/13/2018	14:10:48	0.0	0.0
079	11/13/2018	14:11:48	0.0	0.0
080	11/13/2018	14:12:48	0.0	0.0
081	11/13/2018	14:13:48	0.0	0.0
082	11/13/2018	14:14:48	0.0	0.0
083	11/13/2018	14:15:48	0.0	0.0
084	11/13/2018	14:16:48	0.0	0.0
085	11/13/2018	14:17:48	0.0	0.0
086	11/13/2018	14:18:48	0.0	0.0

PRS_EXPORT_20181119.txt38160

087	11/13/2018	14:19:48	0.0	0.0
088	11/13/2018	14:20:48	0.0	0.0
089	11/13/2018	14:21:48	0.0	0.0
090	11/13/2018	14:22:48	0.0	0.0
091	11/13/2018	14:23:48	0.0	0.0
092	11/13/2018	14:24:48	0.0	0.0
093	11/13/2018	14:25:48	0.0	0.0
094	11/13/2018	14:26:48	0.0	0.0
095	11/13/2018	14:27:48	0.0	0.0
096	11/13/2018	14:28:48	0.0	0.0
097	11/13/2018	14:29:48	0.0	0.0
098	11/13/2018	14:30:48	0.0	0.0
099	11/13/2018	14:31:48	0.0	0.0
100	11/13/2018	14:32:48	0.0	0.0
101	11/13/2018	14:33:48	0.0	0.0
102	11/13/2018	14:34:48	0.0	0.0
103	11/13/2018	14:35:48	0.0	0.0
104	11/13/2018	14:36:48	0.0	0.0
105	11/13/2018	14:37:48	0.0	0.0
106	11/13/2018	14:38:48	0.0	0.0
107	11/13/2018	14:39:48	0.0	0.0
108	11/13/2018	14:40:48	0.0	0.0
109	11/13/2018	14:41:48	0.0	0.0
110	11/13/2018	14:42:48	0.0	0.0
111	11/13/2018	14:43:48	0.0	0.0
112	11/13/2018	14:44:48	0.0	0.0
113	11/13/2018	14:45:48	0.0	0.0
114	11/13/2018	14:46:48	0.0	0.0
115	11/13/2018	14:47:48	0.0	0.0
116	11/13/2018	14:48:48	0.0	0.0
117	11/13/2018	14:49:48	0.0	0.0
118	11/13/2018	14:50:48	0.0	0.0
119	11/13/2018	14:51:48	0.0	0.0
120	11/13/2018	14:52:48	0.0	0.0
121	11/13/2018	14:53:48	0.0	0.0
122	11/13/2018	14:54:48	0.0	0.0
123	11/13/2018	14:55:48	0.0	0.0
124	11/13/2018	14:56:48	0.0	0.0
125	11/13/2018	14:57:48	0.0	0.0
126	11/13/2018	14:58:48	0.0	0.0
127	11/13/2018	14:59:48	0.0	0.0
128	11/13/2018	15:00:48	0.0	0.0
129	11/13/2018	15:01:48	0.0	0.0
130	11/13/2018	15:02:48	0.0	0.0
131	11/13/2018	15:03:48	0.0	0.0
132	11/13/2018	15:04:48	0.0	0.0
133	11/13/2018	15:05:48	0.0	0.0
134	11/13/2018	15:06:48	0.0	0.0

PRS_EXPORT_20181119.txt38160

135	11/13/2018	15:07:48	0.0	0.0
136	11/13/2018	15:08:48	0.0	0.0
137	11/13/2018	15:09:48	0.0	0.0
138	11/13/2018	15:10:48	0.0	0.0
139	11/13/2018	15:11:48	0.0	0.0
140	11/13/2018	15:12:48	0.0	0.0
141	11/13/2018	15:13:48	0.0	0.0
142	11/13/2018	15:14:48	0.0	0.0
143	11/13/2018	15:15:48	0.0	0.0
144	11/13/2018	15:16:48	0.0	0.0
145	11/13/2018	15:17:48	0.0	0.0
146	11/13/2018	15:18:48	0.0	0.0
147	11/13/2018	15:19:48	0.0	0.0
148	11/13/2018	15:20:48	0.0	0.0
149	11/13/2018	15:21:48	0.0	0.0
150	11/13/2018	15:22:48	0.0	0.0
151	11/13/2018	15:23:48	0.0	0.0
152	11/13/2018	15:24:48	0.0	0.0
153	11/13/2018	15:25:48	0.0	0.0
154	11/13/2018	15:26:48	0.0	0.0
155	11/13/2018	15:27:48	0.0	0.0
156	11/13/2018	15:28:48	0.0	0.0
157	11/13/2018	15:29:48	0.0	0.0
158	11/13/2018	15:30:48	0.0	0.0
159	11/13/2018	15:31:48	0.0	0.0
160	11/13/2018	15:32:48	0.0	0.0
161	11/13/2018	15:33:48	0.0	0.0
162	11/13/2018	15:34:48	0.0	0.0
163	11/13/2018	15:35:48	0.0	0.0
164	11/13/2018	15:36:48	0.0	0.0
165	11/13/2018	15:37:48	0.0	0.0
166	11/13/2018	15:38:48	0.0	0.0
167	11/13/2018	15:39:48	0.0	0.0
168	11/13/2018	15:40:48	0.0	0.0
169	11/13/2018	15:41:48	0.0	0.0
170	11/13/2018	15:42:48	0.0	0.0
171	11/13/2018	15:43:48	0.0	0.0
172	11/13/2018	15:44:48	0.0	0.0
173	11/13/2018	15:45:48	0.0	0.0
174	11/13/2018	15:46:48	0.0	0.0
175	11/13/2018	15:47:48	0.0	0.0
176	11/13/2018	15:48:48	0.0	0.0
177	11/13/2018	15:49:48	0.0	0.0
178	11/13/2018	15:50:48	0.0	0.0
179	11/13/2018	15:51:48	0.0	0.0
180	11/13/2018	15:52:48	0.0	0.0
181	11/13/2018	15:53:48	0.0	0.0
182	11/13/2018	15:54:48	0.0	0.0

PRS_EXPORT_20181119.txt38160

183	11/13/2018	15:55:48	0.0	0.0
184	11/13/2018	15:56:48	0.0	0.0
185	11/13/2018	15:57:48	0.0	0.0
186	11/13/2018	15:58:48	0.0	0.0
187	11/13/2018	15:59:48	0.0	0.0
188	11/13/2018	16:00:48	0.0	0.0
189	11/13/2018	16:01:48	0.0	0.0
190	11/13/2018	16:02:48	0.0	0.0
191	11/13/2018	16:03:48	0.0	0.0
192	11/13/2018	16:04:48	0.0	0.0
193	11/13/2018	16:05:48	0.0	0.0
194	11/13/2018	16:06:48	0.0	0.0
195	11/13/2018	16:07:48	0.0	0.0
196	11/13/2018	16:08:48	0.0	0.0
197	11/13/2018	16:09:48	0.0	0.0
198	11/13/2018	16:10:48	0.0	0.0
199	11/13/2018	16:11:48	0.0	0.0
200	11/13/2018	16:12:48	0.0	0.0
201	11/13/2018	16:13:48	0.0	0.0
202	11/13/2018	16:14:48	0.0	0.0
203	11/13/2018	16:15:48	0.0	0.0
204	11/13/2018	16:16:48	0.0	0.0
205	11/13/2018	16:17:48	0.0	0.0
206	11/13/2018	16:18:48	0.0	0.0
207	11/13/2018	16:19:48	0.0	0.0
208	11/13/2018	16:20:48	0.0	0.0
209	11/13/2018	16:21:48	0.0	0.0
210	11/13/2018	16:22:48	0.0	0.0
211	11/13/2018	16:23:48	0.0	0.0
212	11/13/2018	16:24:48	0.0	0.0
213	11/13/2018	16:25:48	0.0	0.0
214	11/13/2018	16:26:48	0.0	0.0
215	11/13/2018	16:27:48	0.0	0.0
216	11/13/2018	16:28:48	0.0	0.0
217	11/13/2018	16:29:48	0.0	0.0
218	11/13/2018	16:30:48	0.0	0.0
219	11/13/2018	16:31:48	0.0	0.0
220	11/13/2018	16:32:48	0.0	0.0
221	11/13/2018	16:33:48	0.0	0.0
222	11/13/2018	16:34:48	0.0	0.0
223	11/13/2018	16:35:48	0.0	0.0
224	11/13/2018	16:36:48	0.0	0.0
225	11/13/2018	16:37:48	0.0	0.0
226	11/13/2018	16:38:48	0.0	0.0
227	11/13/2018	16:39:48	0.0	0.0
228	11/13/2018	16:40:48	0.0	0.0
229	11/13/2018	16:41:48	0.0	0.0
230	11/13/2018	16:42:48	0.0	0.0

231 11/13/2018 16:43:48 0.0 0.0
232 11/13/2018 16:44:48 0.0 0.0

=====
18/11/14 07:55

Summary

Unit Name MiniRAE 3000(PGM-7320)
Unit SN 592-919975
Unit Firmware Ver V2.14

Running Mode Hygiene Mode
Datalog Mode Manual
Diagnostic Mode No
Stop Reason Power Down

Site ID RAE00000
User ID UW000000

Begin 11/14/2018 07:55:00
End 11/14/2018 16:07:15
Sample Period(s) 60
Number of Records 492

Sensor PID(ppm)
Sensor SN S023030116U2
Measure Type Min; Avg; Max; Real
Span 100.0
Span 2 1000.0
Low Alarm 50.0
High Alarm 100.0
Over Alarm 15000.0
STEL Alarm 25.0
TWA Alarm 10.0
Measurement Gas Isobutylene
Calibration Time 10/31/2018 15:37
Peak 0.0
Min 0.0
Average 0.0

Datalog

Index	Date/Time	PID(ppm) (Min)	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)	PID(ppm)
001	11/14/2018 07:56:00	0.0	0.0	0.0	0.0	0.0
002	11/14/2018 07:57:00	0.0	0.0	0.0	0.0	0.0
003	11/14/2018 07:58:00	0.0	0.0	0.0	0.0	0.0
004	11/14/2018 07:59:00	0.0	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

005	11/14/2018	08:00:00	0.0	0.0	0.0	0.0
006	11/14/2018	08:01:00	0.0	0.0	0.0	0.0
007	11/14/2018	08:02:00	0.0	0.0	0.0	0.0
008	11/14/2018	08:03:00	0.0	0.0	0.0	0.0
009	11/14/2018	08:04:00	0.0	0.0	0.0	0.0
010	11/14/2018	08:05:00	0.0	0.0	0.0	0.0
011	11/14/2018	08:06:00	0.0	0.0	0.0	0.0
012	11/14/2018	08:07:00	0.0	0.0	0.0	0.0
013	11/14/2018	08:08:00	0.0	0.0	0.0	0.0
014	11/14/2018	08:09:00	0.0	0.0	0.0	0.0
015	11/14/2018	08:10:00	0.0	0.0	0.0	0.0
016	11/14/2018	08:11:00	0.0	0.0	0.0	0.0
017	11/14/2018	08:12:00	0.0	0.0	0.0	0.0
018	11/14/2018	08:13:00	0.0	0.0	0.0	0.0
019	11/14/2018	08:14:00	0.0	0.0	0.0	0.0
020	11/14/2018	08:15:00	0.0	0.0	0.0	0.0
021	11/14/2018	08:16:00	0.0	0.0	0.0	0.0
022	11/14/2018	08:17:00	0.0	0.0	0.0	0.0
023	11/14/2018	08:18:00	0.0	0.0	0.0	0.0
024	11/14/2018	08:19:00	0.0	0.0	0.0	0.0
025	11/14/2018	08:20:00	0.0	0.0	0.0	0.0
026	11/14/2018	08:21:00	0.0	0.0	0.0	0.0
027	11/14/2018	08:22:00	0.0	0.0	0.0	0.0
028	11/14/2018	08:23:00	0.0	0.0	0.0	0.0
029	11/14/2018	08:24:00	0.0	0.0	0.0	0.0
030	11/14/2018	08:25:00	0.0	0.0	0.0	0.0
031	11/14/2018	08:26:00	0.0	0.0	0.0	0.0
032	11/14/2018	08:27:00	0.0	0.0	0.0	0.0
033	11/14/2018	08:28:00	0.0	0.0	0.0	0.0
034	11/14/2018	08:29:00	0.0	0.0	0.0	0.0
035	11/14/2018	08:30:00	0.0	0.0	0.0	0.0
036	11/14/2018	08:31:00	0.0	0.0	0.0	0.0
037	11/14/2018	08:32:00	0.0	0.0	0.0	0.0
038	11/14/2018	08:33:00	0.0	0.0	0.0	0.0
039	11/14/2018	08:34:00	0.0	0.0	0.0	0.0
040	11/14/2018	08:35:00	0.0	0.0	0.0	0.0
041	11/14/2018	08:36:00	0.0	0.0	0.0	0.0
042	11/14/2018	08:37:00	0.0	0.0	0.0	0.0
043	11/14/2018	08:38:00	0.0	0.0	0.0	0.0
044	11/14/2018	08:39:00	0.0	0.0	0.0	0.0
045	11/14/2018	08:40:00	0.0	0.0	0.0	0.0
046	11/14/2018	08:41:00	0.0	0.0	0.0	0.0
047	11/14/2018	08:42:00	0.0	0.0	0.0	0.0
048	11/14/2018	08:43:00	0.0	0.0	0.0	0.0
049	11/14/2018	08:44:00	0.0	0.0	0.0	0.0
050	11/14/2018	08:45:00	0.0	0.0	0.0	0.0
051	11/14/2018	08:46:00	0.0	0.0	0.0	0.0
052	11/14/2018	08:47:00	0.0	0.0	0.0	0.0

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053	11/14/2018	08:48:00	0.0	0.0	0.0	0.0
054	11/14/2018	08:49:00	0.0	0.0	0.0	0.0
055	11/14/2018	08:50:00	0.0	0.0	0.0	0.0
056	11/14/2018	08:51:00	0.0	0.0	0.0	0.0
057	11/14/2018	08:52:00	0.0	0.0	0.0	0.0
058	11/14/2018	08:53:00	0.0	0.0	0.0	0.0
059	11/14/2018	08:54:00	0.0	0.0	0.0	0.0
060	11/14/2018	08:55:00	0.0	0.0	0.0	0.0
061	11/14/2018	08:56:00	0.0	0.0	0.0	0.0
062	11/14/2018	08:57:00	0.0	0.0	0.0	0.0
063	11/14/2018	08:58:00	0.0	0.0	0.0	0.0
064	11/14/2018	08:59:00	0.0	0.0	0.0	0.0
065	11/14/2018	09:00:00	0.0	0.0	0.0	0.0
066	11/14/2018	09:01:00	0.0	0.0	0.0	0.0
067	11/14/2018	09:02:00	0.0	0.0	0.0	0.0
068	11/14/2018	09:03:00	0.0	0.0	0.0	0.0
069	11/14/2018	09:04:00	0.0	0.0	0.0	0.0
070	11/14/2018	09:05:00	0.0	0.0	0.0	0.0
071	11/14/2018	09:06:00	0.0	0.0	0.0	0.0
072	11/14/2018	09:07:00	0.0	0.0	0.0	0.0
073	11/14/2018	09:08:00	0.0	0.0	0.0	0.0
074	11/14/2018	09:09:00	0.0	0.0	0.0	0.0
075	11/14/2018	09:10:00	0.0	0.0	0.0	0.0
076	11/14/2018	09:11:00	0.0	0.0	0.0	0.0
077	11/14/2018	09:12:00	0.0	0.0	0.0	0.0
078	11/14/2018	09:13:00	0.0	0.0	0.0	0.0
079	11/14/2018	09:14:00	0.0	0.0	0.0	0.0
080	11/14/2018	09:15:00	0.0	0.0	0.0	0.0
081	11/14/2018	09:16:00	0.0	0.0	0.0	0.0
082	11/14/2018	09:17:00	0.0	0.0	0.0	0.0
083	11/14/2018	09:18:00	0.0	0.0	0.0	0.0
084	11/14/2018	09:19:00	0.0	0.0	0.0	0.0
085	11/14/2018	09:20:00	0.0	0.0	0.0	0.0
086	11/14/2018	09:21:00	0.0	0.0	0.0	0.0
087	11/14/2018	09:22:00	0.0	0.0	0.0	0.0
088	11/14/2018	09:23:00	0.0	0.0	0.0	0.0
089	11/14/2018	09:24:00	0.0	0.0	0.0	0.0
090	11/14/2018	09:25:00	0.0	0.0	0.0	0.0
091	11/14/2018	09:26:00	0.0	0.0	0.0	0.0
092	11/14/2018	09:27:00	0.0	0.0	0.0	0.0
093	11/14/2018	09:28:00	0.0	0.0	0.0	0.0
094	11/14/2018	09:29:00	0.0	0.0	0.0	0.0
095	11/14/2018	09:30:00	0.0	0.0	0.0	0.0
096	11/14/2018	09:31:00	0.0	0.0	0.0	0.0
097	11/14/2018	09:32:00	0.0	0.0	0.0	0.0
098	11/14/2018	09:33:00	0.0	0.0	0.0	0.0
099	11/14/2018	09:34:00	0.0	0.0	0.0	0.0
100	11/14/2018	09:35:00	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

101	11/14/2018	09:36:00	0.0	0.0	0.0	0.0
102	11/14/2018	09:37:00	0.0	0.0	0.0	0.0
103	11/14/2018	09:38:00	0.0	0.0	0.0	0.0
104	11/14/2018	09:39:00	0.0	0.0	0.0	0.0
105	11/14/2018	09:40:00	0.0	0.0	0.0	0.0
106	11/14/2018	09:41:00	0.0	0.0	0.0	0.0
107	11/14/2018	09:42:00	0.0	0.0	0.0	0.0
108	11/14/2018	09:43:00	0.0	0.0	0.0	0.0
109	11/14/2018	09:44:00	0.0	0.0	0.0	0.0
110	11/14/2018	09:45:00	0.0	0.0	0.0	0.0
111	11/14/2018	09:46:00	0.0	0.0	0.0	0.0
112	11/14/2018	09:47:00	0.0	0.0	0.0	0.0
113	11/14/2018	09:48:00	0.0	0.0	0.0	0.0
114	11/14/2018	09:49:00	0.0	0.0	0.0	0.0
115	11/14/2018	09:50:00	0.0	0.0	0.0	0.0
116	11/14/2018	09:51:00	0.0	0.0	0.0	0.0
117	11/14/2018	09:52:00	0.0	0.0	0.0	0.0
118	11/14/2018	09:53:00	0.0	0.0	0.0	0.0
119	11/14/2018	09:54:00	0.0	0.0	0.0	0.0
120	11/14/2018	09:55:00	0.0	0.0	0.0	0.0
121	11/14/2018	09:56:00	0.0	0.0	0.0	0.0
122	11/14/2018	09:57:00	0.0	0.0	0.0	0.0
123	11/14/2018	09:58:00	0.0	0.0	0.0	0.0
124	11/14/2018	09:59:00	0.0	0.0	0.0	0.0
125	11/14/2018	10:00:00	0.0	0.0	0.0	0.0
126	11/14/2018	10:01:00	0.0	0.0	0.0	0.0
127	11/14/2018	10:02:00	0.0	0.0	0.0	0.0
128	11/14/2018	10:03:00	0.0	0.0	0.0	0.0
129	11/14/2018	10:04:00	0.0	0.0	0.0	0.0
130	11/14/2018	10:05:00	0.0	0.0	0.0	0.0
131	11/14/2018	10:06:00	0.0	0.0	0.0	0.0
132	11/14/2018	10:07:00	0.0	0.0	0.0	0.0
133	11/14/2018	10:08:00	0.0	0.0	0.0	0.0
134	11/14/2018	10:09:00	0.0	0.0	0.0	0.0
135	11/14/2018	10:10:00	0.0	0.0	0.0	0.0
136	11/14/2018	10:11:00	0.0	0.0	0.0	0.0
137	11/14/2018	10:12:00	0.0	0.0	0.0	0.0
138	11/14/2018	10:13:00	0.0	0.0	0.0	0.0
139	11/14/2018	10:14:00	0.0	0.0	0.0	0.0
140	11/14/2018	10:15:00	0.0	0.0	0.0	0.0
141	11/14/2018	10:16:00	0.0	0.0	0.0	0.0
142	11/14/2018	10:17:00	0.0	0.0	0.0	0.0
143	11/14/2018	10:18:00	0.0	0.0	0.0	0.0
144	11/14/2018	10:19:00	0.0	0.0	0.0	0.0
145	11/14/2018	10:20:00	0.0	0.0	0.0	0.0
146	11/14/2018	10:21:00	0.0	0.0	0.0	0.0
147	11/14/2018	10:22:00	0.0	0.0	0.0	0.0
148	11/14/2018	10:23:00	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

149	11/14/2018	10:24:00	0.0	0.0	0.0	0.0
150	11/14/2018	10:25:00	0.0	0.0	0.0	0.0
151	11/14/2018	10:26:00	0.0	0.0	0.0	0.0
152	11/14/2018	10:27:00	0.0	0.0	0.0	0.0
153	11/14/2018	10:28:00	0.0	0.0	0.0	0.0
154	11/14/2018	10:29:00	0.0	0.0	0.0	0.0
155	11/14/2018	10:30:00	0.0	0.0	0.0	0.0
156	11/14/2018	10:31:00	0.0	0.0	0.0	0.0
157	11/14/2018	10:32:00	0.0	0.0	0.0	0.0
158	11/14/2018	10:33:00	0.0	0.0	0.0	0.0
159	11/14/2018	10:34:00	0.0	0.0	0.0	0.0
160	11/14/2018	10:35:00	0.0	0.0	0.0	0.0
161	11/14/2018	10:36:00	0.0	0.0	0.0	0.0
162	11/14/2018	10:37:00	0.0	0.0	0.0	0.0
163	11/14/2018	10:38:00	0.0	0.0	0.0	0.0
164	11/14/2018	10:39:00	0.0	0.0	0.0	0.0
165	11/14/2018	10:40:00	0.0	0.0	0.0	0.0
166	11/14/2018	10:41:00	0.0	0.0	0.0	0.0
167	11/14/2018	10:42:00	0.0	0.0	0.0	0.0
168	11/14/2018	10:43:00	0.0	0.0	0.0	0.0
169	11/14/2018	10:44:00	0.0	0.0	0.0	0.0
170	11/14/2018	10:45:00	0.0	0.0	0.0	0.0
171	11/14/2018	10:46:00	0.0	0.0	0.0	0.0
172	11/14/2018	10:47:00	0.0	0.0	0.0	0.0
173	11/14/2018	10:48:00	0.0	0.0	0.0	0.0
174	11/14/2018	10:49:00	0.0	0.0	0.0	0.0
175	11/14/2018	10:50:00	0.0	0.0	0.0	0.0
176	11/14/2018	10:51:00	0.0	0.0	0.0	0.0
177	11/14/2018	10:52:00	0.0	0.0	0.0	0.0
178	11/14/2018	10:53:00	0.0	0.0	0.0	0.0
179	11/14/2018	10:54:00	0.0	0.0	0.0	0.0
180	11/14/2018	10:55:00	0.0	0.0	0.0	0.0
181	11/14/2018	10:56:00	0.0	0.0	0.0	0.0
182	11/14/2018	10:57:00	0.0	0.0	0.0	0.0
183	11/14/2018	10:58:00	0.0	0.0	0.0	0.0
184	11/14/2018	10:59:00	0.0	0.0	0.0	0.0
185	11/14/2018	11:00:00	0.0	0.0	0.0	0.0
186	11/14/2018	11:01:00	0.0	0.0	0.0	0.0
187	11/14/2018	11:02:00	0.0	0.0	0.0	0.0
188	11/14/2018	11:03:00	0.0	0.0	0.0	0.0
189	11/14/2018	11:04:00	0.0	0.0	0.0	0.0
190	11/14/2018	11:05:00	0.0	0.0	0.0	0.0
191	11/14/2018	11:06:00	0.0	0.0	0.0	0.0
192	11/14/2018	11:07:00	0.0	0.0	0.0	0.0
193	11/14/2018	11:08:00	0.0	0.0	0.0	0.0
194	11/14/2018	11:09:00	0.0	0.0	0.0	0.0
195	11/14/2018	11:10:00	0.0	0.0	0.0	0.0
196	11/14/2018	11:11:00	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

197	11/14/2018	11:12:00	0.0	0.0	0.0	0.0
198	11/14/2018	11:13:00	0.0	0.0	0.0	0.0
199	11/14/2018	11:14:00	0.0	0.0	0.0	0.0
200	11/14/2018	11:15:00	0.0	0.0	0.0	0.0
201	11/14/2018	11:16:00	0.0	0.0	0.0	0.0
202	11/14/2018	11:17:00	0.0	0.0	0.0	0.0
203	11/14/2018	11:18:00	0.0	0.0	0.0	0.0
204	11/14/2018	11:19:00	0.0	0.0	0.0	0.0
205	11/14/2018	11:20:00	0.0	0.0	0.0	0.0
206	11/14/2018	11:21:00	0.0	0.0	0.0	0.0
207	11/14/2018	11:22:00	0.0	0.0	0.0	0.0
208	11/14/2018	11:23:00	0.0	0.0	0.0	0.0
209	11/14/2018	11:24:00	0.0	0.0	0.0	0.0
210	11/14/2018	11:25:00	0.0	0.0	0.0	0.0
211	11/14/2018	11:26:00	0.0	0.0	0.0	0.0
212	11/14/2018	11:27:00	0.0	0.0	0.0	0.0
213	11/14/2018	11:28:00	0.0	0.0	0.0	0.0
214	11/14/2018	11:29:00	0.0	0.0	0.0	0.0
215	11/14/2018	11:30:00	0.0	0.0	0.0	0.0
216	11/14/2018	11:31:00	0.0	0.0	0.0	0.0
217	11/14/2018	11:32:00	0.0	0.0	0.0	0.0
218	11/14/2018	11:33:00	0.0	0.0	0.0	0.0
219	11/14/2018	11:34:00	0.0	0.0	0.0	0.0
220	11/14/2018	11:35:00	0.0	0.0	0.0	0.0
221	11/14/2018	11:36:00	0.0	0.0	0.0	0.0
222	11/14/2018	11:37:00	0.0	0.0	0.0	0.0
223	11/14/2018	11:38:00	0.0	0.0	0.0	0.0
224	11/14/2018	11:39:00	0.0	0.0	0.0	0.0
225	11/14/2018	11:40:00	0.0	0.0	0.0	0.0
226	11/14/2018	11:41:00	0.0	0.0	0.0	0.0
227	11/14/2018	11:42:00	0.0	0.0	0.0	0.0
228	11/14/2018	11:43:00	0.0	0.0	0.0	0.0
229	11/14/2018	11:44:00	0.0	0.0	0.0	0.0
230	11/14/2018	11:45:00	0.0	0.0	0.0	0.0
231	11/14/2018	11:46:00	0.0	0.0	0.0	0.0
232	11/14/2018	11:47:00	0.0	0.0	0.0	0.0
233	11/14/2018	11:48:00	0.0	0.0	0.0	0.0
234	11/14/2018	11:49:00	0.0	0.0	0.0	0.0
235	11/14/2018	11:50:00	0.0	0.0	0.0	0.0
236	11/14/2018	11:51:00	0.0	0.0	0.0	0.0
237	11/14/2018	11:52:00	0.0	0.0	0.0	0.0
238	11/14/2018	11:53:00	0.0	0.0	0.0	0.0
239	11/14/2018	11:54:00	0.0	0.0	0.0	0.0
240	11/14/2018	11:55:00	0.0	0.0	0.0	0.0
241	11/14/2018	11:56:00	0.0	0.0	0.0	0.0
242	11/14/2018	11:57:00	0.0	0.0	0.0	0.0
243	11/14/2018	11:58:00	0.0	0.0	0.0	0.0
244	11/14/2018	11:59:00	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

245	11/14/2018	12:00:00	0.0	0.0	0.0	0.0
246	11/14/2018	12:01:00	0.0	0.0	0.0	0.0
247	11/14/2018	12:02:00	0.0	0.0	0.0	0.0
248	11/14/2018	12:03:00	0.0	0.0	0.0	0.0
249	11/14/2018	12:04:00	0.0	0.0	0.0	0.0
250	11/14/2018	12:05:00	0.0	0.0	0.0	0.0
251	11/14/2018	12:06:00	0.0	0.0	0.0	0.0
252	11/14/2018	12:07:00	0.0	0.0	0.0	0.0
253	11/14/2018	12:08:00	0.0	0.0	0.0	0.0
254	11/14/2018	12:09:00	0.0	0.0	0.0	0.0
255	11/14/2018	12:10:00	0.0	0.0	0.0	0.0
256	11/14/2018	12:11:00	0.0	0.0	0.0	0.0
257	11/14/2018	12:12:00	0.0	0.0	0.0	0.0
258	11/14/2018	12:13:00	0.0	0.0	0.0	0.0
259	11/14/2018	12:14:00	0.0	0.0	0.0	0.0
260	11/14/2018	12:15:00	0.0	0.0	0.0	0.0
261	11/14/2018	12:16:00	0.0	0.0	0.0	0.0
262	11/14/2018	12:17:00	0.0	0.0	0.0	0.0
263	11/14/2018	12:18:00	0.0	0.0	0.0	0.0
264	11/14/2018	12:19:00	0.0	0.0	0.0	0.0
265	11/14/2018	12:20:00	0.0	0.0	0.0	0.0
266	11/14/2018	12:21:00	0.0	0.0	0.0	0.0
267	11/14/2018	12:22:00	0.0	0.0	0.0	0.0
268	11/14/2018	12:23:00	0.0	0.0	0.0	0.0
269	11/14/2018	12:24:00	0.0	0.0	0.0	0.0
270	11/14/2018	12:25:00	0.0	0.0	0.0	0.0
271	11/14/2018	12:26:00	0.0	0.0	0.0	0.0
272	11/14/2018	12:27:00	0.0	0.0	0.0	0.0
273	11/14/2018	12:28:00	0.0	0.0	0.0	0.0
274	11/14/2018	12:29:00	0.0	0.0	0.0	0.0
275	11/14/2018	12:30:00	0.0	0.0	0.0	0.0
276	11/14/2018	12:31:00	0.0	0.0	0.0	0.0
277	11/14/2018	12:32:00	0.0	0.0	0.0	0.0
278	11/14/2018	12:33:00	0.0	0.0	0.0	0.0
279	11/14/2018	12:34:00	0.0	0.0	0.0	0.0
280	11/14/2018	12:35:00	0.0	0.0	0.0	0.0
281	11/14/2018	12:36:00	0.0	0.0	0.0	0.0
282	11/14/2018	12:37:00	0.0	0.0	0.0	0.0
283	11/14/2018	12:38:00	0.0	0.0	0.0	0.0
284	11/14/2018	12:39:00	0.0	0.0	0.0	0.0
285	11/14/2018	12:40:00	0.0	0.0	0.0	0.0
286	11/14/2018	12:41:00	0.0	0.0	0.0	0.0
287	11/14/2018	12:42:00	0.0	0.0	0.0	0.0
288	11/14/2018	12:43:00	0.0	0.0	0.0	0.0
289	11/14/2018	12:44:00	0.0	0.0	0.0	0.0
290	11/14/2018	12:45:00	0.0	0.0	0.0	0.0
291	11/14/2018	12:46:00	0.0	0.0	0.0	0.0
292	11/14/2018	12:47:00	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

293	11/14/2018	12:48:00	0.0	0.0	0.0	0.0
294	11/14/2018	12:49:00	0.0	0.0	0.0	0.0
295	11/14/2018	12:50:00	0.0	0.0	0.0	0.0
296	11/14/2018	12:51:00	0.0	0.0	0.0	0.0
297	11/14/2018	12:52:00	0.0	0.0	0.0	0.0
298	11/14/2018	12:53:00	0.0	0.0	0.0	0.0
299	11/14/2018	12:54:00	0.0	0.0	0.0	0.0
300	11/14/2018	12:55:00	0.0	0.0	0.0	0.0
301	11/14/2018	12:56:00	0.0	0.0	0.0	0.0
302	11/14/2018	12:57:00	0.0	0.0	0.0	0.0
303	11/14/2018	12:58:00	0.0	0.0	0.0	0.0
304	11/14/2018	12:59:00	0.0	0.0	0.0	0.0
305	11/14/2018	13:00:00	0.0	0.0	0.0	0.0
306	11/14/2018	13:01:00	0.0	0.0	0.0	0.0
307	11/14/2018	13:02:00	0.0	0.0	0.0	0.0
308	11/14/2018	13:03:00	0.0	0.0	0.0	0.0
309	11/14/2018	13:04:00	0.0	0.0	0.0	0.0
310	11/14/2018	13:05:00	0.0	0.0	0.0	0.0
311	11/14/2018	13:06:00	0.0	0.0	0.0	0.0
312	11/14/2018	13:07:00	0.0	0.0	0.0	0.0
313	11/14/2018	13:08:00	0.0	0.0	0.0	0.0
314	11/14/2018	13:09:00	0.0	0.0	0.0	0.0
315	11/14/2018	13:10:00	0.0	0.0	0.0	0.0
316	11/14/2018	13:11:00	0.0	0.0	0.0	0.0
317	11/14/2018	13:12:00	0.0	0.0	0.0	0.0
318	11/14/2018	13:13:00	0.0	0.0	0.0	0.0
319	11/14/2018	13:14:00	0.0	0.0	0.0	0.0
320	11/14/2018	13:15:00	0.0	0.0	0.0	0.0
321	11/14/2018	13:16:00	0.0	0.0	0.0	0.0
322	11/14/2018	13:17:00	0.0	0.0	0.0	0.0
323	11/14/2018	13:18:00	0.0	0.0	0.0	0.0
324	11/14/2018	13:19:00	0.0	0.0	0.0	0.0
325	11/14/2018	13:20:00	0.0	0.0	0.0	0.0
326	11/14/2018	13:21:00	0.0	0.0	0.0	0.0
327	11/14/2018	13:22:00	0.0	0.0	0.0	0.0
328	11/14/2018	13:23:00	0.0	0.0	0.0	0.0
329	11/14/2018	13:24:00	0.0	0.0	0.0	0.0
330	11/14/2018	13:25:00	0.0	0.0	0.0	0.0
331	11/14/2018	13:26:00	0.0	0.0	0.0	0.0
332	11/14/2018	13:27:00	0.0	0.0	0.0	0.0
333	11/14/2018	13:28:00	0.0	0.0	0.0	0.0
334	11/14/2018	13:29:00	0.0	0.0	0.0	0.0
335	11/14/2018	13:30:00	0.0	0.0	0.0	0.0
336	11/14/2018	13:31:00	0.0	0.0	0.0	0.0
337	11/14/2018	13:32:00	0.0	0.0	0.0	0.0
338	11/14/2018	13:33:00	0.0	0.0	0.0	0.0
339	11/14/2018	13:34:00	0.0	0.0	0.0	0.0
340	11/14/2018	13:35:00	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

341	11/14/2018	13:36:00	0.0	0.0	0.0	0.0
342	11/14/2018	13:37:00	0.0	0.0	0.0	0.0
343	11/14/2018	13:38:00	0.0	0.0	0.0	0.0
344	11/14/2018	13:39:00	0.0	0.0	0.0	0.0
345	11/14/2018	13:40:00	0.0	0.0	0.0	0.0
346	11/14/2018	13:41:00	0.0	0.0	0.0	0.0
347	11/14/2018	13:42:00	0.0	0.0	0.0	0.0
348	11/14/2018	13:43:00	0.0	0.0	0.0	0.0
349	11/14/2018	13:44:00	0.0	0.0	0.0	0.0
350	11/14/2018	13:45:00	0.0	0.0	0.0	0.0
351	11/14/2018	13:46:00	0.0	0.0	0.0	0.0
352	11/14/2018	13:47:00	0.0	0.0	0.0	0.0
353	11/14/2018	13:48:00	0.0	0.0	0.0	0.0
354	11/14/2018	13:49:00	0.0	0.0	0.0	0.0
355	11/14/2018	13:50:00	0.0	0.0	0.0	0.0
356	11/14/2018	13:51:00	0.0	0.0	0.0	0.0
357	11/14/2018	13:52:00	0.0	0.0	0.0	0.0
358	11/14/2018	13:53:00	0.0	0.0	0.0	0.0
359	11/14/2018	13:54:00	0.0	0.0	0.0	0.0
360	11/14/2018	13:55:00	0.0	0.0	0.0	0.0
361	11/14/2018	13:56:00	0.0	0.0	0.0	0.0
362	11/14/2018	13:57:00	0.0	0.0	0.0	0.0
363	11/14/2018	13:58:00	0.0	0.0	0.0	0.0
364	11/14/2018	13:59:00	0.0	0.0	0.0	0.0
365	11/14/2018	14:00:00	0.0	0.0	0.0	0.0
366	11/14/2018	14:01:00	0.0	0.0	0.0	0.0
367	11/14/2018	14:02:00	0.0	0.0	0.0	0.0
368	11/14/2018	14:03:00	0.0	0.0	0.0	0.0
369	11/14/2018	14:04:00	0.0	0.0	0.0	0.0
370	11/14/2018	14:05:00	0.0	0.0	0.0	0.0
371	11/14/2018	14:06:00	0.0	0.0	0.0	0.0
372	11/14/2018	14:07:00	0.0	0.0	0.0	0.0
373	11/14/2018	14:08:00	0.0	0.0	0.0	0.0
374	11/14/2018	14:09:00	0.0	0.0	0.0	0.0
375	11/14/2018	14:10:00	0.0	0.0	0.0	0.0
376	11/14/2018	14:11:00	0.0	0.0	0.0	0.0
377	11/14/2018	14:12:00	0.0	0.0	0.0	0.0
378	11/14/2018	14:13:00	0.0	0.0	0.0	0.0
379	11/14/2018	14:14:00	0.0	0.0	0.0	0.0
380	11/14/2018	14:15:00	0.0	0.0	0.0	0.0
381	11/14/2018	14:16:00	0.0	0.0	0.0	0.0
382	11/14/2018	14:17:00	0.0	0.0	0.0	0.0
383	11/14/2018	14:18:00	0.0	0.0	0.0	0.0
384	11/14/2018	14:19:00	0.0	0.0	0.0	0.0
385	11/14/2018	14:20:00	0.0	0.0	0.0	0.0
386	11/14/2018	14:21:00	0.0	0.0	0.0	0.0
387	11/14/2018	14:22:00	0.0	0.0	0.0	0.0
388	11/14/2018	14:23:00	0.0	0.0	0.0	0.0

PRS_EXPORT_20181119.txt38160

389	11/14/2018	14:24:00	0.0	0.0	0.0	0.0
390	11/14/2018	14:25:00	0.0	0.0	0.0	0.0
391	11/14/2018	14:26:00	0.0	0.0	0.0	0.0
392	11/14/2018	14:27:00	0.0	0.0	0.0	0.0
393	11/14/2018	14:28:00	0.0	0.0	0.0	0.0
394	11/14/2018	14:29:00	0.0	0.0	0.0	0.0
395	11/14/2018	14:30:00	0.0	0.0	0.0	0.0
396	11/14/2018	14:31:00	0.0	0.0	0.0	0.0
397	11/14/2018	14:32:00	0.0	0.0	0.0	0.0
398	11/14/2018	14:33:00	0.0	0.0	0.0	0.0
399	11/14/2018	14:34:00	0.0	0.0	0.0	0.0
400	11/14/2018	14:35:00	0.0	0.0	0.0	0.0
401	11/14/2018	14:36:00	0.0	0.0	0.0	0.0
402	11/14/2018	14:37:00	0.0	0.0	0.0	0.0
403	11/14/2018	14:38:00	0.0	0.0	0.0	0.0
404	11/14/2018	14:39:00	0.0	0.0	0.0	0.0
405	11/14/2018	14:40:00	0.0	0.0	0.0	0.0
406	11/14/2018	14:41:00	0.0	0.0	0.0	0.0
407	11/14/2018	14:42:00	0.0	0.0	0.0	0.0
408	11/14/2018	14:43:00	0.0	0.0	0.0	0.0
409	11/14/2018	14:44:00	0.0	0.0	0.0	0.0
410	11/14/2018	14:45:00	0.0	0.0	0.0	0.0
411	11/14/2018	14:46:00	0.0	0.0	0.0	0.0
412	11/14/2018	14:47:00	0.0	0.0	0.0	0.0
413	11/14/2018	14:48:00	0.0	0.0	0.0	0.0
414	11/14/2018	14:49:00	0.0	0.0	0.0	0.0
415	11/14/2018	14:50:00	0.0	0.0	0.0	0.0
416	11/14/2018	14:51:00	0.0	0.0	0.0	0.0
417	11/14/2018	14:52:00	0.0	0.0	0.0	0.0
418	11/14/2018	14:53:00	0.0	0.0	0.0	0.0
419	11/14/2018	14:54:00	0.0	0.0	0.0	0.0
420	11/14/2018	14:55:00	0.0	0.0	0.0	0.0
421	11/14/2018	14:56:00	0.0	0.0	0.0	0.0
422	11/14/2018	14:57:00	0.0	0.0	0.0	0.0
423	11/14/2018	14:58:00	0.0	0.0	0.0	0.0
424	11/14/2018	14:59:00	0.0	0.0	0.0	0.0
425	11/14/2018	15:00:00	0.0	0.0	0.0	0.0
426	11/14/2018	15:01:00	0.0	0.0	0.0	0.0
427	11/14/2018	15:02:00	0.0	0.0	0.0	0.0
428	11/14/2018	15:03:00	0.0	0.0	0.0	0.0
429	11/14/2018	15:04:00	0.0	0.0	0.0	0.0
430	11/14/2018	15:05:00	0.0	0.0	0.0	0.0
431	11/14/2018	15:06:00	0.0	0.0	0.0	0.0
432	11/14/2018	15:07:00	0.0	0.0	0.0	0.0
433	11/14/2018	15:08:00	0.0	0.0	0.0	0.0
434	11/14/2018	15:09:00	0.0	0.0	0.0	0.0
435	11/14/2018	15:10:00	0.0	0.0	0.0	0.0
436	11/14/2018	15:11:00	0.0	0.0	0.0	0.0

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437	11/14/2018	15:12:00	0.0	0.0	0.0	0.0
438	11/14/2018	15:13:00	0.0	0.0	0.0	0.0
439	11/14/2018	15:14:00	0.0	0.0	0.0	0.0
440	11/14/2018	15:15:00	0.0	0.0	0.0	0.0
441	11/14/2018	15:16:00	0.0	0.0	0.0	0.0
442	11/14/2018	15:17:00	0.0	0.0	0.0	0.0
443	11/14/2018	15:18:00	0.0	0.0	0.0	0.0
444	11/14/2018	15:19:00	0.0	0.0	0.0	0.0
445	11/14/2018	15:20:00	0.0	0.0	0.0	0.0
446	11/14/2018	15:21:00	0.0	0.0	0.0	0.0
447	11/14/2018	15:22:00	0.0	0.0	0.0	0.0
448	11/14/2018	15:23:00	0.0	0.0	0.0	0.0
449	11/14/2018	15:24:00	0.0	0.0	0.0	0.0
450	11/14/2018	15:25:00	0.0	0.0	0.0	0.0
451	11/14/2018	15:26:00	0.0	0.0	0.0	0.0
452	11/14/2018	15:27:00	0.0	0.0	0.0	0.0
453	11/14/2018	15:28:00	0.0	0.0	0.0	0.0
454	11/14/2018	15:29:00	0.0	0.0	0.0	0.0
455	11/14/2018	15:30:00	0.0	0.0	0.0	0.0
456	11/14/2018	15:31:00	0.0	0.0	0.0	0.0
457	11/14/2018	15:32:00	0.0	0.0	0.0	0.0
458	11/14/2018	15:33:00	0.0	0.0	0.0	0.0
459	11/14/2018	15:34:00	0.0	0.0	0.0	0.0
460	11/14/2018	15:35:00	0.0	0.0	0.0	0.0
461	11/14/2018	15:36:00	0.0	0.0	0.0	0.0
462	11/14/2018	15:37:00	0.0	0.0	0.0	0.0
463	11/14/2018	15:38:00	0.0	0.0	0.0	0.0
464	11/14/2018	15:39:00	0.0	0.0	0.0	0.0
465	11/14/2018	15:40:00	0.0	0.0	0.0	0.0
466	11/14/2018	15:41:00	0.0	0.0	0.0	0.0
467	11/14/2018	15:42:00	0.0	0.0	0.0	0.0
468	11/14/2018	15:43:00	0.0	0.0	0.0	0.0
469	11/14/2018	15:44:00	0.0	0.0	0.0	0.0
470	11/14/2018	15:45:00	0.0	0.0	0.0	0.0
471	11/14/2018	15:46:00	0.0	0.0	0.0	0.0
472	11/14/2018	15:47:00	0.0	0.0	0.0	0.0
473	11/14/2018	15:48:00	0.0	0.0	0.0	0.0
474	11/14/2018	15:49:00	0.0	0.0	0.0	0.0
475	11/14/2018	15:50:00	0.0	0.0	0.0	0.0
476	11/14/2018	15:51:00	0.0	0.0	0.0	0.0
477	11/14/2018	15:52:00	0.0	0.0	0.0	0.0
478	11/14/2018	15:53:00	0.0	0.0	0.0	0.0
479	11/14/2018	15:54:00	0.0	0.0	0.0	0.0
480	11/14/2018	15:55:00	0.0	0.0	0.0	0.0
481	11/14/2018	15:56:00	0.0	0.0	0.0	0.0
482	11/14/2018	15:57:00	0.0	0.0	0.0	0.0
483	11/14/2018	15:58:00	0.0	0.0	0.0	0.0
484	11/14/2018	15:59:00	0.0	0.0	0.0	0.0

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485	11/14/2018	16:00:00	0.0	0.0	0.0	0.0
486	11/14/2018	16:01:00	0.0	0.0	0.0	0.0
487	11/14/2018	16:02:00	0.0	0.0	0.0	0.0
488	11/14/2018	16:03:00	0.0	0.0	0.0	0.0
489	11/14/2018	16:04:00	0.0	0.0	0.0	0.0
490	11/14/2018	16:05:00	0.0	0.0	0.0	0.0
491	11/14/2018	16:06:00	0.0	0.0	0.0	0.0
492	11/14/2018	16:07:00	0.0	0.0	0.0	0.0
Peak		0.0	0.0	0.0	0.0	
Min		0.0	0.0	0.0	0.0	
Average		0.0	0.0	0.0	0.0	

TWA/STEL

Index	Date/Time	PID(ppm) (TWA)	PID(ppm) (STEL)
001	11/14/2018 07:56:00	0.0	---
002	11/14/2018 07:57:00	0.0	---
003	11/14/2018 07:58:00	0.0	---
004	11/14/2018 07:59:00	0.0	---
005	11/14/2018 08:00:00	0.0	---
006	11/14/2018 08:01:00	0.0	---
007	11/14/2018 08:02:00	0.0	---
008	11/14/2018 08:03:00	0.0	---
009	11/14/2018 08:04:00	0.0	---
010	11/14/2018 08:05:00	0.0	---
011	11/14/2018 08:06:00	0.0	---
012	11/14/2018 08:07:00	0.0	---
013	11/14/2018 08:08:00	0.0	---
014	11/14/2018 08:09:00	0.0	---
015	11/14/2018 08:10:00	0.0	0.0
016	11/14/2018 08:11:00	0.0	0.0
017	11/14/2018 08:12:00	0.0	0.0
018	11/14/2018 08:13:00	0.0	0.0
019	11/14/2018 08:14:00	0.0	0.0
020	11/14/2018 08:15:00	0.0	0.0
021	11/14/2018 08:16:00	0.0	0.0
022	11/14/2018 08:17:00	0.0	0.0
023	11/14/2018 08:18:00	0.0	0.0
024	11/14/2018 08:19:00	0.0	0.0
025	11/14/2018 08:20:00	0.0	0.0
026	11/14/2018 08:21:00	0.0	0.0
027	11/14/2018 08:22:00	0.0	0.0
028	11/14/2018 08:23:00	0.0	0.0
029	11/14/2018 08:24:00	0.0	0.0
030	11/14/2018 08:25:00	0.0	0.0
031	11/14/2018 08:26:00	0.0	0.0
032	11/14/2018 08:27:00	0.0	0.0

PRS_EXPORT_20181119.txt38160

033	11/14/2018	08:28:00	0.0	0.0
034	11/14/2018	08:29:00	0.0	0.0
035	11/14/2018	08:30:00	0.0	0.0
036	11/14/2018	08:31:00	0.0	0.0
037	11/14/2018	08:32:00	0.0	0.0
038	11/14/2018	08:33:00	0.0	0.0
039	11/14/2018	08:34:00	0.0	0.0
040	11/14/2018	08:35:00	0.0	0.0
041	11/14/2018	08:36:00	0.0	0.0
042	11/14/2018	08:37:00	0.0	0.0
043	11/14/2018	08:38:00	0.0	0.0
044	11/14/2018	08:39:00	0.0	0.0
045	11/14/2018	08:40:00	0.0	0.0
046	11/14/2018	08:41:00	0.0	0.0
047	11/14/2018	08:42:00	0.0	0.0
048	11/14/2018	08:43:00	0.0	0.0
049	11/14/2018	08:44:00	0.0	0.0
050	11/14/2018	08:45:00	0.0	0.0
051	11/14/2018	08:46:00	0.0	0.0
052	11/14/2018	08:47:00	0.0	0.0
053	11/14/2018	08:48:00	0.0	0.0
054	11/14/2018	08:49:00	0.0	0.0
055	11/14/2018	08:50:00	0.0	0.0
056	11/14/2018	08:51:00	0.0	0.0
057	11/14/2018	08:52:00	0.0	0.0
058	11/14/2018	08:53:00	0.0	0.0
059	11/14/2018	08:54:00	0.0	0.0
060	11/14/2018	08:55:00	0.0	0.0
061	11/14/2018	08:56:00	0.0	0.0
062	11/14/2018	08:57:00	0.0	0.0
063	11/14/2018	08:58:00	0.0	0.0
064	11/14/2018	08:59:00	0.0	0.0
065	11/14/2018	09:00:00	0.0	0.0
066	11/14/2018	09:01:00	0.0	0.0
067	11/14/2018	09:02:00	0.0	0.0
068	11/14/2018	09:03:00	0.0	0.0
069	11/14/2018	09:04:00	0.0	0.0
070	11/14/2018	09:05:00	0.0	0.0
071	11/14/2018	09:06:00	0.0	0.0
072	11/14/2018	09:07:00	0.0	0.0
073	11/14/2018	09:08:00	0.0	0.0
074	11/14/2018	09:09:00	0.0	0.0
075	11/14/2018	09:10:00	0.0	0.0
076	11/14/2018	09:11:00	0.0	0.0
077	11/14/2018	09:12:00	0.0	0.0
078	11/14/2018	09:13:00	0.0	0.0
079	11/14/2018	09:14:00	0.0	0.0
080	11/14/2018	09:15:00	0.0	0.0

PRS_EXPORT_20181119.txt38160

081	11/14/2018	09:16:00	0.0	0.0
082	11/14/2018	09:17:00	0.0	0.0
083	11/14/2018	09:18:00	0.0	0.0
084	11/14/2018	09:19:00	0.0	0.0
085	11/14/2018	09:20:00	0.0	0.0
086	11/14/2018	09:21:00	0.0	0.0
087	11/14/2018	09:22:00	0.0	0.0
088	11/14/2018	09:23:00	0.0	0.0
089	11/14/2018	09:24:00	0.0	0.0
090	11/14/2018	09:25:00	0.0	0.0
091	11/14/2018	09:26:00	0.0	0.0
092	11/14/2018	09:27:00	0.0	0.0
093	11/14/2018	09:28:00	0.0	0.0
094	11/14/2018	09:29:00	0.0	0.0
095	11/14/2018	09:30:00	0.0	0.0
096	11/14/2018	09:31:00	0.0	0.0
097	11/14/2018	09:32:00	0.0	0.0
098	11/14/2018	09:33:00	0.0	0.0
099	11/14/2018	09:34:00	0.0	0.0
100	11/14/2018	09:35:00	0.0	0.0
101	11/14/2018	09:36:00	0.0	0.0
102	11/14/2018	09:37:00	0.0	0.0
103	11/14/2018	09:38:00	0.0	0.0
104	11/14/2018	09:39:00	0.0	0.0
105	11/14/2018	09:40:00	0.0	0.0
106	11/14/2018	09:41:00	0.0	0.0
107	11/14/2018	09:42:00	0.0	0.0
108	11/14/2018	09:43:00	0.0	0.0
109	11/14/2018	09:44:00	0.0	0.0
110	11/14/2018	09:45:00	0.0	0.0
111	11/14/2018	09:46:00	0.0	0.0
112	11/14/2018	09:47:00	0.0	0.0
113	11/14/2018	09:48:00	0.0	0.0
114	11/14/2018	09:49:00	0.0	0.0
115	11/14/2018	09:50:00	0.0	0.0
116	11/14/2018	09:51:00	0.0	0.0
117	11/14/2018	09:52:00	0.0	0.0
118	11/14/2018	09:53:00	0.0	0.0
119	11/14/2018	09:54:00	0.0	0.0
120	11/14/2018	09:55:00	0.0	0.0
121	11/14/2018	09:56:00	0.0	0.0
122	11/14/2018	09:57:00	0.0	0.0
123	11/14/2018	09:58:00	0.0	0.0
124	11/14/2018	09:59:00	0.0	0.0
125	11/14/2018	10:00:00	0.0	0.0
126	11/14/2018	10:01:00	0.0	0.0
127	11/14/2018	10:02:00	0.0	0.0
128	11/14/2018	10:03:00	0.0	0.0

PRS_EXPORT_20181119.txt38160

129	11/14/2018	10:04:00	0.0	0.0
130	11/14/2018	10:05:00	0.0	0.0
131	11/14/2018	10:06:00	0.0	0.0
132	11/14/2018	10:07:00	0.0	0.0
133	11/14/2018	10:08:00	0.0	0.0
134	11/14/2018	10:09:00	0.0	0.0
135	11/14/2018	10:10:00	0.0	0.0
136	11/14/2018	10:11:00	0.0	0.0
137	11/14/2018	10:12:00	0.0	0.0
138	11/14/2018	10:13:00	0.0	0.0
139	11/14/2018	10:14:00	0.0	0.0
140	11/14/2018	10:15:00	0.0	0.0
141	11/14/2018	10:16:00	0.0	0.0
142	11/14/2018	10:17:00	0.0	0.0
143	11/14/2018	10:18:00	0.0	0.0
144	11/14/2018	10:19:00	0.0	0.0
145	11/14/2018	10:20:00	0.0	0.0
146	11/14/2018	10:21:00	0.0	0.0
147	11/14/2018	10:22:00	0.0	0.0
148	11/14/2018	10:23:00	0.0	0.0
149	11/14/2018	10:24:00	0.0	0.0
150	11/14/2018	10:25:00	0.0	0.0
151	11/14/2018	10:26:00	0.0	0.0
152	11/14/2018	10:27:00	0.0	0.0
153	11/14/2018	10:28:00	0.0	0.0
154	11/14/2018	10:29:00	0.0	0.0
155	11/14/2018	10:30:00	0.0	0.0
156	11/14/2018	10:31:00	0.0	0.0
157	11/14/2018	10:32:00	0.0	0.0
158	11/14/2018	10:33:00	0.0	0.0
159	11/14/2018	10:34:00	0.0	0.0
160	11/14/2018	10:35:00	0.0	0.0
161	11/14/2018	10:36:00	0.0	0.0
162	11/14/2018	10:37:00	0.0	0.0
163	11/14/2018	10:38:00	0.0	0.0
164	11/14/2018	10:39:00	0.0	0.0
165	11/14/2018	10:40:00	0.0	0.0
166	11/14/2018	10:41:00	0.0	0.0
167	11/14/2018	10:42:00	0.0	0.0
168	11/14/2018	10:43:00	0.0	0.0
169	11/14/2018	10:44:00	0.0	0.0
170	11/14/2018	10:45:00	0.0	0.0
171	11/14/2018	10:46:00	0.0	0.0
172	11/14/2018	10:47:00	0.0	0.0
173	11/14/2018	10:48:00	0.0	0.0
174	11/14/2018	10:49:00	0.0	0.0
175	11/14/2018	10:50:00	0.0	0.0
176	11/14/2018	10:51:00	0.0	0.0

PRS_EXPORT_20181119.txt38160

177	11/14/2018	10:52:00	0.0	0.0
178	11/14/2018	10:53:00	0.0	0.0
179	11/14/2018	10:54:00	0.0	0.0
180	11/14/2018	10:55:00	0.0	0.0
181	11/14/2018	10:56:00	0.0	0.0
182	11/14/2018	10:57:00	0.0	0.0
183	11/14/2018	10:58:00	0.0	0.0
184	11/14/2018	10:59:00	0.0	0.0
185	11/14/2018	11:00:00	0.0	0.0
186	11/14/2018	11:01:00	0.0	0.0
187	11/14/2018	11:02:00	0.0	0.0
188	11/14/2018	11:03:00	0.0	0.0
189	11/14/2018	11:04:00	0.0	0.0
190	11/14/2018	11:05:00	0.0	0.0
191	11/14/2018	11:06:00	0.0	0.0
192	11/14/2018	11:07:00	0.0	0.0
193	11/14/2018	11:08:00	0.0	0.0
194	11/14/2018	11:09:00	0.0	0.0
195	11/14/2018	11:10:00	0.0	0.0
196	11/14/2018	11:11:00	0.0	0.0
197	11/14/2018	11:12:00	0.0	0.0
198	11/14/2018	11:13:00	0.0	0.0
199	11/14/2018	11:14:00	0.0	0.0
200	11/14/2018	11:15:00	0.0	0.0
201	11/14/2018	11:16:00	0.0	0.0
202	11/14/2018	11:17:00	0.0	0.0
203	11/14/2018	11:18:00	0.0	0.0
204	11/14/2018	11:19:00	0.0	0.0
205	11/14/2018	11:20:00	0.0	0.0
206	11/14/2018	11:21:00	0.0	0.0
207	11/14/2018	11:22:00	0.0	0.0
208	11/14/2018	11:23:00	0.0	0.0
209	11/14/2018	11:24:00	0.0	0.0
210	11/14/2018	11:25:00	0.0	0.0
211	11/14/2018	11:26:00	0.0	0.0
212	11/14/2018	11:27:00	0.0	0.0
213	11/14/2018	11:28:00	0.0	0.0
214	11/14/2018	11:29:00	0.0	0.0
215	11/14/2018	11:30:00	0.0	0.0
216	11/14/2018	11:31:00	0.0	0.0
217	11/14/2018	11:32:00	0.0	0.0
218	11/14/2018	11:33:00	0.0	0.0
219	11/14/2018	11:34:00	0.0	0.0
220	11/14/2018	11:35:00	0.0	0.0
221	11/14/2018	11:36:00	0.0	0.0
222	11/14/2018	11:37:00	0.0	0.0
223	11/14/2018	11:38:00	0.0	0.0
224	11/14/2018	11:39:00	0.0	0.0

PRS_EXPORT_20181119.txt38160

225	11/14/2018	11:40:00	0.0	0.0
226	11/14/2018	11:41:00	0.0	0.0
227	11/14/2018	11:42:00	0.0	0.0
228	11/14/2018	11:43:00	0.0	0.0
229	11/14/2018	11:44:00	0.0	0.0
230	11/14/2018	11:45:00	0.0	0.0
231	11/14/2018	11:46:00	0.0	0.0
232	11/14/2018	11:47:00	0.0	0.0
233	11/14/2018	11:48:00	0.0	0.0
234	11/14/2018	11:49:00	0.0	0.0
235	11/14/2018	11:50:00	0.0	0.0
236	11/14/2018	11:51:00	0.0	0.0
237	11/14/2018	11:52:00	0.0	0.0
238	11/14/2018	11:53:00	0.0	0.0
239	11/14/2018	11:54:00	0.0	0.0
240	11/14/2018	11:55:00	0.0	0.0
241	11/14/2018	11:56:00	0.0	0.0
242	11/14/2018	11:57:00	0.0	0.0
243	11/14/2018	11:58:00	0.0	0.0
244	11/14/2018	11:59:00	0.0	0.0
245	11/14/2018	12:00:00	0.0	0.0
246	11/14/2018	12:01:00	0.0	0.0
247	11/14/2018	12:02:00	0.0	0.0
248	11/14/2018	12:03:00	0.0	0.0
249	11/14/2018	12:04:00	0.0	0.0
250	11/14/2018	12:05:00	0.0	0.0
251	11/14/2018	12:06:00	0.0	0.0
252	11/14/2018	12:07:00	0.0	0.0
253	11/14/2018	12:08:00	0.0	0.0
254	11/14/2018	12:09:00	0.0	0.0
255	11/14/2018	12:10:00	0.0	0.0
256	11/14/2018	12:11:00	0.0	0.0
257	11/14/2018	12:12:00	0.0	0.0
258	11/14/2018	12:13:00	0.0	0.0
259	11/14/2018	12:14:00	0.0	0.0
260	11/14/2018	12:15:00	0.0	0.0
261	11/14/2018	12:16:00	0.0	0.0
262	11/14/2018	12:17:00	0.0	0.0
263	11/14/2018	12:18:00	0.0	0.0
264	11/14/2018	12:19:00	0.0	0.0
265	11/14/2018	12:20:00	0.0	0.0
266	11/14/2018	12:21:00	0.0	0.0
267	11/14/2018	12:22:00	0.0	0.0
268	11/14/2018	12:23:00	0.0	0.0
269	11/14/2018	12:24:00	0.0	0.0
270	11/14/2018	12:25:00	0.0	0.0
271	11/14/2018	12:26:00	0.0	0.0
272	11/14/2018	12:27:00	0.0	0.0

PRS_EXPORT_20181119.txt38160

273	11/14/2018	12:28:00	0.0	0.0
274	11/14/2018	12:29:00	0.0	0.0
275	11/14/2018	12:30:00	0.0	0.0
276	11/14/2018	12:31:00	0.0	0.0
277	11/14/2018	12:32:00	0.0	0.0
278	11/14/2018	12:33:00	0.0	0.0
279	11/14/2018	12:34:00	0.0	0.0
280	11/14/2018	12:35:00	0.0	0.0
281	11/14/2018	12:36:00	0.0	0.0
282	11/14/2018	12:37:00	0.0	0.0
283	11/14/2018	12:38:00	0.0	0.0
284	11/14/2018	12:39:00	0.0	0.0
285	11/14/2018	12:40:00	0.0	0.0
286	11/14/2018	12:41:00	0.0	0.0
287	11/14/2018	12:42:00	0.0	0.0
288	11/14/2018	12:43:00	0.0	0.0
289	11/14/2018	12:44:00	0.0	0.0
290	11/14/2018	12:45:00	0.0	0.0
291	11/14/2018	12:46:00	0.0	0.0
292	11/14/2018	12:47:00	0.0	0.0
293	11/14/2018	12:48:00	0.0	0.0
294	11/14/2018	12:49:00	0.0	0.0
295	11/14/2018	12:50:00	0.0	0.0
296	11/14/2018	12:51:00	0.0	0.0
297	11/14/2018	12:52:00	0.0	0.0
298	11/14/2018	12:53:00	0.0	0.0
299	11/14/2018	12:54:00	0.0	0.0
300	11/14/2018	12:55:00	0.0	0.0
301	11/14/2018	12:56:00	0.0	0.0
302	11/14/2018	12:57:00	0.0	0.0
303	11/14/2018	12:58:00	0.0	0.0
304	11/14/2018	12:59:00	0.0	0.0
305	11/14/2018	13:00:00	0.0	0.0
306	11/14/2018	13:01:00	0.0	0.0
307	11/14/2018	13:02:00	0.0	0.0
308	11/14/2018	13:03:00	0.0	0.0
309	11/14/2018	13:04:00	0.0	0.0
310	11/14/2018	13:05:00	0.0	0.0
311	11/14/2018	13:06:00	0.0	0.0
312	11/14/2018	13:07:00	0.0	0.0
313	11/14/2018	13:08:00	0.0	0.0
314	11/14/2018	13:09:00	0.0	0.0
315	11/14/2018	13:10:00	0.0	0.0
316	11/14/2018	13:11:00	0.0	0.0
317	11/14/2018	13:12:00	0.0	0.0
318	11/14/2018	13:13:00	0.0	0.0
319	11/14/2018	13:14:00	0.0	0.0
320	11/14/2018	13:15:00	0.0	0.0

PRS_EXPORT_20181119.txt38160

321	11/14/2018	13:16:00	0.0	0.0
322	11/14/2018	13:17:00	0.0	0.0
323	11/14/2018	13:18:00	0.0	0.0
324	11/14/2018	13:19:00	0.0	0.0
325	11/14/2018	13:20:00	0.0	0.0
326	11/14/2018	13:21:00	0.0	0.0
327	11/14/2018	13:22:00	0.0	0.0
328	11/14/2018	13:23:00	0.0	0.0
329	11/14/2018	13:24:00	0.0	0.0
330	11/14/2018	13:25:00	0.0	0.0
331	11/14/2018	13:26:00	0.0	0.0
332	11/14/2018	13:27:00	0.0	0.0
333	11/14/2018	13:28:00	0.0	0.0
334	11/14/2018	13:29:00	0.0	0.0
335	11/14/2018	13:30:00	0.0	0.0
336	11/14/2018	13:31:00	0.0	0.0
337	11/14/2018	13:32:00	0.0	0.0
338	11/14/2018	13:33:00	0.0	0.0
339	11/14/2018	13:34:00	0.0	0.0
340	11/14/2018	13:35:00	0.0	0.0
341	11/14/2018	13:36:00	0.0	0.0
342	11/14/2018	13:37:00	0.0	0.0
343	11/14/2018	13:38:00	0.0	0.0
344	11/14/2018	13:39:00	0.0	0.0
345	11/14/2018	13:40:00	0.0	0.0
346	11/14/2018	13:41:00	0.0	0.0
347	11/14/2018	13:42:00	0.0	0.0
348	11/14/2018	13:43:00	0.0	0.0
349	11/14/2018	13:44:00	0.0	0.0
350	11/14/2018	13:45:00	0.0	0.0
351	11/14/2018	13:46:00	0.0	0.0
352	11/14/2018	13:47:00	0.0	0.0
353	11/14/2018	13:48:00	0.0	0.0
354	11/14/2018	13:49:00	0.0	0.0
355	11/14/2018	13:50:00	0.0	0.0
356	11/14/2018	13:51:00	0.0	0.0
357	11/14/2018	13:52:00	0.0	0.0
358	11/14/2018	13:53:00	0.0	0.0
359	11/14/2018	13:54:00	0.0	0.0
360	11/14/2018	13:55:00	0.0	0.0
361	11/14/2018	13:56:00	0.0	0.0
362	11/14/2018	13:57:00	0.0	0.0
363	11/14/2018	13:58:00	0.0	0.0
364	11/14/2018	13:59:00	0.0	0.0
365	11/14/2018	14:00:00	0.0	0.0
366	11/14/2018	14:01:00	0.0	0.0
367	11/14/2018	14:02:00	0.0	0.0
368	11/14/2018	14:03:00	0.0	0.0

PRS_EXPORT_20181119.txt38160

369	11/14/2018	14:04:00	0.0	0.0
370	11/14/2018	14:05:00	0.0	0.0
371	11/14/2018	14:06:00	0.0	0.0
372	11/14/2018	14:07:00	0.0	0.0
373	11/14/2018	14:08:00	0.0	0.0
374	11/14/2018	14:09:00	0.0	0.0
375	11/14/2018	14:10:00	0.0	0.0
376	11/14/2018	14:11:00	0.0	0.0
377	11/14/2018	14:12:00	0.0	0.0
378	11/14/2018	14:13:00	0.0	0.0
379	11/14/2018	14:14:00	0.0	0.0
380	11/14/2018	14:15:00	0.0	0.0
381	11/14/2018	14:16:00	0.0	0.0
382	11/14/2018	14:17:00	0.0	0.0
383	11/14/2018	14:18:00	0.0	0.0
384	11/14/2018	14:19:00	0.0	0.0
385	11/14/2018	14:20:00	0.0	0.0
386	11/14/2018	14:21:00	0.0	0.0
387	11/14/2018	14:22:00	0.0	0.0
388	11/14/2018	14:23:00	0.0	0.0
389	11/14/2018	14:24:00	0.0	0.0
390	11/14/2018	14:25:00	0.0	0.0
391	11/14/2018	14:26:00	0.0	0.0
392	11/14/2018	14:27:00	0.0	0.0
393	11/14/2018	14:28:00	0.0	0.0
394	11/14/2018	14:29:00	0.0	0.0
395	11/14/2018	14:30:00	0.0	0.0
396	11/14/2018	14:31:00	0.0	0.0
397	11/14/2018	14:32:00	0.0	0.0
398	11/14/2018	14:33:00	0.0	0.0
399	11/14/2018	14:34:00	0.0	0.0
400	11/14/2018	14:35:00	0.0	0.0
401	11/14/2018	14:36:00	0.0	0.0
402	11/14/2018	14:37:00	0.0	0.0
403	11/14/2018	14:38:00	0.0	0.0
404	11/14/2018	14:39:00	0.0	0.0
405	11/14/2018	14:40:00	0.0	0.0
406	11/14/2018	14:41:00	0.0	0.0
407	11/14/2018	14:42:00	0.0	0.0
408	11/14/2018	14:43:00	0.0	0.0
409	11/14/2018	14:44:00	0.0	0.0
410	11/14/2018	14:45:00	0.0	0.0
411	11/14/2018	14:46:00	0.0	0.0
412	11/14/2018	14:47:00	0.0	0.0
413	11/14/2018	14:48:00	0.0	0.0
414	11/14/2018	14:49:00	0.0	0.0
415	11/14/2018	14:50:00	0.0	0.0
416	11/14/2018	14:51:00	0.0	0.0

PRS_EXPORT_20181119.txt38160

417	11/14/2018	14:52:00	0.0	0.0
418	11/14/2018	14:53:00	0.0	0.0
419	11/14/2018	14:54:00	0.0	0.0
420	11/14/2018	14:55:00	0.0	0.0
421	11/14/2018	14:56:00	0.0	0.0
422	11/14/2018	14:57:00	0.0	0.0
423	11/14/2018	14:58:00	0.0	0.0
424	11/14/2018	14:59:00	0.0	0.0
425	11/14/2018	15:00:00	0.0	0.0
426	11/14/2018	15:01:00	0.0	0.0
427	11/14/2018	15:02:00	0.0	0.0
428	11/14/2018	15:03:00	0.0	0.0
429	11/14/2018	15:04:00	0.0	0.0
430	11/14/2018	15:05:00	0.0	0.0
431	11/14/2018	15:06:00	0.0	0.0
432	11/14/2018	15:07:00	0.0	0.0
433	11/14/2018	15:08:00	0.0	0.0
434	11/14/2018	15:09:00	0.0	0.0
435	11/14/2018	15:10:00	0.0	0.0
436	11/14/2018	15:11:00	0.0	0.0
437	11/14/2018	15:12:00	0.0	0.0
438	11/14/2018	15:13:00	0.0	0.0
439	11/14/2018	15:14:00	0.0	0.0
440	11/14/2018	15:15:00	0.0	0.0
441	11/14/2018	15:16:00	0.0	0.0
442	11/14/2018	15:17:00	0.0	0.0
443	11/14/2018	15:18:00	0.0	0.0
444	11/14/2018	15:19:00	0.0	0.0
445	11/14/2018	15:20:00	0.0	0.0
446	11/14/2018	15:21:00	0.0	0.0
447	11/14/2018	15:22:00	0.0	0.0
448	11/14/2018	15:23:00	0.0	0.0
449	11/14/2018	15:24:00	0.0	0.0
450	11/14/2018	15:25:00	0.0	0.0
451	11/14/2018	15:26:00	0.0	0.0
452	11/14/2018	15:27:00	0.0	0.0
453	11/14/2018	15:28:00	0.0	0.0
454	11/14/2018	15:29:00	0.0	0.0
455	11/14/2018	15:30:00	0.0	0.0
456	11/14/2018	15:31:00	0.0	0.0
457	11/14/2018	15:32:00	0.0	0.0
458	11/14/2018	15:33:00	0.0	0.0
459	11/14/2018	15:34:00	0.0	0.0
460	11/14/2018	15:35:00	0.0	0.0
461	11/14/2018	15:36:00	0.0	0.0
462	11/14/2018	15:37:00	0.0	0.0
463	11/14/2018	15:38:00	0.0	0.0
464	11/14/2018	15:39:00	0.0	0.0

PRS_EXPORT_20181119.txt38160

465	11/14/2018	15:40:00	0.0	0.0
466	11/14/2018	15:41:00	0.0	0.0
467	11/14/2018	15:42:00	0.0	0.0
468	11/14/2018	15:43:00	0.0	0.0
469	11/14/2018	15:44:00	0.0	0.0
470	11/14/2018	15:45:00	0.0	0.0
471	11/14/2018	15:46:00	0.0	0.0
472	11/14/2018	15:47:00	0.0	0.0
473	11/14/2018	15:48:00	0.0	0.0
474	11/14/2018	15:49:00	0.0	0.0
475	11/14/2018	15:50:00	0.0	0.0
476	11/14/2018	15:51:00	0.0	0.0
477	11/14/2018	15:52:00	0.0	0.0
478	11/14/2018	15:53:00	0.0	0.0
479	11/14/2018	15:54:00	0.0	0.0
480	11/14/2018	15:55:00	0.0	0.0
481	11/14/2018	15:56:00	0.0	0.0
482	11/14/2018	15:57:00	0.0	0.0
483	11/14/2018	15:58:00	0.0	0.0
484	11/14/2018	15:59:00	0.0	0.0
485	11/14/2018	16:00:00	0.0	0.0
486	11/14/2018	16:01:00	0.0	0.0
487	11/14/2018	16:02:00	0.0	0.0
488	11/14/2018	16:03:00	0.0	0.0
489	11/14/2018	16:04:00	0.0	0.0
490	11/14/2018	16:05:00	0.0	0.0
491	11/14/2018	16:06:00	0.0	0.0
492	11/14/2018	16:07:00	0.0	0.0

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18/11/15 11:12

Summary

Unit Name MiniRAE 3000(PGM-7320)

Unit SN 592-919975

Unit Firmware Ver V2.14

Running Mode Hygiene Mode

Datalog Mode Manual

Diagnostic Mode No

Stop Reason Power Down

Site ID RAE00000

User ID UW000000

Begin 11/15/2018 11:12:54

End 11/15/2018 13:47:22

Sample Period(s) 60

Number of Records 154

 Sensor PID(ppm)
 Sensor SN S023030116U2
 Measure Type Min; Avg; Max; Real
 Span 100.0
 Span 2 1000.0
 Low Alarm 50.0
 High Alarm 100.0
 Over Alarm 15000.0
 STEL Alarm 25.0
 TWA Alarm 10.0
 Measurement Gas Isobutylene
 Calibration Time 10/31/2018 15:37
 Peak 0.0
 Min 0.0
 Average 0.0

Datalog

Index	Date/Time	PID(ppm) (Min)	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)	PID(ppm)
001	11/15/2018 11:13:54	0.0	0.0	0.0	0.0	0.0
002	11/15/2018 11:14:54	0.0	0.0	0.0	0.0	0.0
003	11/15/2018 11:15:54	0.0	0.0	0.0	0.0	0.0
004	11/15/2018 11:16:54	0.0	0.0	0.0	0.0	0.0
005	11/15/2018 11:17:54	0.0	0.0	0.0	0.0	0.0
006	11/15/2018 11:18:54	0.0	0.0	0.0	0.0	0.0
007	11/15/2018 11:19:54	0.0	0.0	0.0	0.0	0.0
008	11/15/2018 11:20:54	0.0	0.0	0.0	0.0	0.0
009	11/15/2018 11:21:54	0.0	0.0	0.0	0.0	0.0
010	11/15/2018 11:22:54	0.0	0.0	0.0	0.0	0.0
011	11/15/2018 11:23:54	0.0	0.0	0.0	0.0	0.0
012	11/15/2018 11:24:54	0.0	0.0	0.0	0.0	0.0
013	11/15/2018 11:25:54	0.0	0.0	0.0	0.0	0.0
014	11/15/2018 11:26:54	0.0	0.0	0.0	0.0	0.0
015	11/15/2018 11:27:54	0.0	0.0	0.0	0.0	0.0
016	11/15/2018 11:28:54	0.0	0.0	0.0	0.0	0.0
017	11/15/2018 11:29:54	0.0	0.0	0.0	0.0	0.0
018	11/15/2018 11:30:54	0.0	0.0	0.0	0.0	0.0
019	11/15/2018 11:31:54	0.0	0.0	0.0	0.0	0.0
020	11/15/2018 11:32:54	0.0	0.0	0.0	0.0	0.0
021	11/15/2018 11:33:54	0.0	0.0	0.0	0.0	0.0
022	11/15/2018 11:34:54	0.0	0.0	0.0	0.0	0.0
023	11/15/2018 11:35:54	0.0	0.0	0.0	0.0	0.0
024	11/15/2018 11:36:54	0.0	0.0	0.0	0.0	0.0
025	11/15/2018 11:37:54	0.0	0.0	0.0	0.0	0.0
026	11/15/2018 11:38:54	0.0	0.0	0.0	0.0	0.0

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027	11/15/2018	11:39:54	0.0	0.0	0.0	0.0
028	11/15/2018	11:40:54	0.0	0.0	0.0	0.0
029	11/15/2018	11:41:54	0.0	0.0	0.0	0.0
030	11/15/2018	11:42:54	0.0	0.0	0.0	0.0
031	11/15/2018	11:43:54	0.0	0.0	0.0	0.0
032	11/15/2018	11:44:54	0.0	0.0	0.0	0.0
033	11/15/2018	11:45:54	0.0	0.0	0.0	0.0
034	11/15/2018	11:46:54	0.0	0.0	0.0	0.0
035	11/15/2018	11:47:54	0.0	0.0	0.0	0.0
036	11/15/2018	11:48:54	0.0	0.0	0.0	0.0
037	11/15/2018	11:49:54	0.0	0.0	0.0	0.0
038	11/15/2018	11:50:54	0.0	0.0	0.0	0.0
039	11/15/2018	11:51:54	0.0	0.0	0.0	0.0
040	11/15/2018	11:52:54	0.0	0.0	0.0	0.0
041	11/15/2018	11:53:54	0.0	0.0	0.0	0.0
042	11/15/2018	11:54:54	0.0	0.0	0.0	0.0
043	11/15/2018	11:55:54	0.0	0.0	0.0	0.0
044	11/15/2018	11:56:54	0.0	0.0	0.0	0.0
045	11/15/2018	11:57:54	0.0	0.0	0.0	0.0
046	11/15/2018	11:58:54	0.0	0.0	0.0	0.0
047	11/15/2018	11:59:54	0.0	0.0	0.0	0.0
048	11/15/2018	12:00:54	0.0	0.0	0.0	0.0
049	11/15/2018	12:01:54	0.0	0.0	0.0	0.0
050	11/15/2018	12:02:54	0.0	0.0	0.0	0.0
051	11/15/2018	12:03:54	0.0	0.0	0.0	0.0
052	11/15/2018	12:04:54	0.0	0.0	0.0	0.0
053	11/15/2018	12:05:54	0.0	0.0	0.0	0.0
054	11/15/2018	12:06:54	0.0	0.0	0.0	0.0
055	11/15/2018	12:07:54	0.0	0.0	0.0	0.0
056	11/15/2018	12:08:54	0.0	0.0	0.0	0.0
057	11/15/2018	12:09:54	0.0	0.0	0.0	0.0
058	11/15/2018	12:10:54	0.0	0.0	0.0	0.0
059	11/15/2018	12:11:54	0.0	0.0	0.0	0.0
060	11/15/2018	12:12:54	0.0	0.0	0.0	0.0
061	11/15/2018	12:13:54	0.0	0.0	0.0	0.0
062	11/15/2018	12:14:54	0.0	0.0	0.0	0.0
063	11/15/2018	12:15:54	0.0	0.0	0.0	0.0
064	11/15/2018	12:16:54	0.0	0.0	0.0	0.0
065	11/15/2018	12:17:54	0.0	0.0	0.0	0.0
066	11/15/2018	12:18:54	0.0	0.0	0.0	0.0
067	11/15/2018	12:19:54	0.0	0.0	0.0	0.0
068	11/15/2018	12:20:54	0.0	0.0	0.0	0.0
069	11/15/2018	12:21:54	0.0	0.0	0.0	0.0
070	11/15/2018	12:22:54	0.0	0.0	0.0	0.0
071	11/15/2018	12:23:54	0.0	0.0	0.0	0.0
072	11/15/2018	12:24:54	0.0	0.0	0.0	0.0
073	11/15/2018	12:25:54	0.0	0.0	0.0	0.0
074	11/15/2018	12:26:54	0.0	0.0	0.0	0.0

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075	11/15/2018	12:27:54	0.0	0.0	0.0	0.0
076	11/15/2018	12:28:54	0.0	0.0	0.0	0.0
077	11/15/2018	12:29:54	0.0	0.0	0.0	0.0
078	11/15/2018	12:30:54	0.0	0.0	0.0	0.0
079	11/15/2018	12:31:54	0.0	0.0	0.0	0.0
080	11/15/2018	12:32:54	0.0	0.0	0.0	0.0
081	11/15/2018	12:33:54	0.0	0.0	0.0	0.0
082	11/15/2018	12:34:54	0.0	0.0	0.0	0.0
083	11/15/2018	12:35:54	0.0	0.0	0.0	0.0
084	11/15/2018	12:36:54	0.0	0.0	0.0	0.0
085	11/15/2018	12:37:54	0.0	0.0	0.0	0.0
086	11/15/2018	12:38:54	0.0	0.0	0.0	0.0
087	11/15/2018	12:39:54	0.0	0.0	0.0	0.0
088	11/15/2018	12:40:54	0.0	0.0	0.0	0.0
089	11/15/2018	12:41:54	0.0	0.0	0.0	0.0
090	11/15/2018	12:42:54	0.0	0.0	0.0	0.0
091	11/15/2018	12:43:54	0.0	0.0	0.0	0.0
092	11/15/2018	12:44:54	0.0	0.0	0.0	0.0
093	11/15/2018	12:45:54	0.0	0.0	0.0	0.0
094	11/15/2018	12:46:54	0.0	0.0	0.0	0.0
095	11/15/2018	12:47:54	0.0	0.0	0.0	0.0
096	11/15/2018	12:48:54	0.0	0.0	0.0	0.0
097	11/15/2018	12:49:54	0.0	0.0	0.0	0.0
098	11/15/2018	12:50:54	0.0	0.0	0.0	0.0
099	11/15/2018	12:51:54	0.0	0.0	0.0	0.0
100	11/15/2018	12:52:54	0.0	0.0	0.0	0.0
101	11/15/2018	12:53:54	0.0	0.0	0.0	0.0
102	11/15/2018	12:54:54	0.0	0.0	0.0	0.0
103	11/15/2018	12:55:54	0.0	0.0	0.0	0.0
104	11/15/2018	12:56:54	0.0	0.0	0.0	0.0
105	11/15/2018	12:57:54	0.0	0.0	0.0	0.0
106	11/15/2018	12:58:54	0.0	0.0	0.0	0.0
107	11/15/2018	12:59:54	0.0	0.0	0.0	0.0
108	11/15/2018	13:00:54	0.0	0.0	0.0	0.0
109	11/15/2018	13:01:54	0.0	0.0	0.0	0.0
110	11/15/2018	13:02:54	0.0	0.0	0.0	0.0
111	11/15/2018	13:03:54	0.0	0.0	0.0	0.0
112	11/15/2018	13:04:54	0.0	0.0	0.0	0.0
113	11/15/2018	13:05:54	0.0	0.0	0.0	0.0
114	11/15/2018	13:06:54	0.0	0.0	0.0	0.0
115	11/15/2018	13:07:54	0.0	0.0	0.0	0.0
116	11/15/2018	13:08:54	0.0	0.0	0.0	0.0
117	11/15/2018	13:09:54	0.0	0.0	0.0	0.0
118	11/15/2018	13:10:54	0.0	0.0	0.0	0.0
119	11/15/2018	13:11:54	0.0	0.0	0.0	0.0
120	11/15/2018	13:12:54	0.0	0.0	0.0	0.0
121	11/15/2018	13:13:54	0.0	0.0	0.0	0.0
122	11/15/2018	13:14:54	0.0	0.0	0.0	0.0

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123	11/15/2018	13:15:54	0.0	0.0	0.0	0.0
124	11/15/2018	13:16:54	0.0	0.0	0.0	0.0
125	11/15/2018	13:17:54	0.0	0.0	0.0	0.0
126	11/15/2018	13:18:54	0.0	0.0	0.0	0.0
127	11/15/2018	13:19:54	0.0	0.0	0.0	0.0
128	11/15/2018	13:20:54	0.0	0.0	0.0	0.0
129	11/15/2018	13:21:54	0.0	0.0	0.0	0.0
130	11/15/2018	13:22:54	0.0	0.0	0.0	0.0
131	11/15/2018	13:23:54	0.0	0.0	0.0	0.0
132	11/15/2018	13:24:54	0.0	0.0	0.0	0.0
133	11/15/2018	13:25:54	0.0	0.0	0.0	0.0
134	11/15/2018	13:26:54	0.0	0.0	0.0	0.0
135	11/15/2018	13:27:54	0.0	0.0	0.0	0.0
136	11/15/2018	13:28:54	0.0	0.0	0.0	0.0
137	11/15/2018	13:29:54	0.0	0.0	0.0	0.0
138	11/15/2018	13:30:54	0.0	0.0	0.0	0.0
139	11/15/2018	13:31:54	0.0	0.0	0.0	0.0
140	11/15/2018	13:32:54	0.0	0.0	0.0	0.0
141	11/15/2018	13:33:54	0.0	0.0	0.0	0.0
142	11/15/2018	13:34:54	0.0	0.0	0.0	0.0
143	11/15/2018	13:35:54	0.0	0.0	0.0	0.0
144	11/15/2018	13:36:54	0.0	0.0	0.0	0.0
145	11/15/2018	13:37:54	0.0	0.0	0.0	0.0
146	11/15/2018	13:38:54	0.0	0.0	0.0	0.0
147	11/15/2018	13:39:54	0.0	0.0	0.0	0.0
148	11/15/2018	13:40:54	0.0	0.0	0.0	0.0
149	11/15/2018	13:41:54	0.0	0.0	0.0	0.0
150	11/15/2018	13:42:54	0.0	0.0	0.0	0.0
151	11/15/2018	13:43:54	0.0	0.0	0.0	0.0
152	11/15/2018	13:44:54	0.0	0.0	0.0	0.0
153	11/15/2018	13:45:54	0.0	0.0	0.0	0.0
154	11/15/2018	13:46:54	0.0	0.0	0.0	0.0
Peak		0.0	0.0	0.0	0.0	0.0
Min		0.0	0.0	0.0	0.0	0.0
Average		0.0	0.0	0.0	0.0	0.0

TWA/STEL

Index	Date/Time	PID(ppm) (TWA)	PID(ppm) (STEL)
001	11/15/2018 11:13:54	0.0	---
002	11/15/2018 11:14:54	0.0	---
003	11/15/2018 11:15:54	0.0	---
004	11/15/2018 11:16:54	0.0	---
005	11/15/2018 11:17:54	0.0	---
006	11/15/2018 11:18:54	0.0	---
007	11/15/2018 11:19:54	0.0	---
008	11/15/2018 11:20:54	0.0	---

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009	11/15/2018	11:21:54	0.0	---
010	11/15/2018	11:22:54	0.0	---
011	11/15/2018	11:23:54	0.0	---
012	11/15/2018	11:24:54	0.0	---
013	11/15/2018	11:25:54	0.0	---
014	11/15/2018	11:26:54	0.0	---
015	11/15/2018	11:27:54	0.0	0.0
016	11/15/2018	11:28:54	0.0	0.0
017	11/15/2018	11:29:54	0.0	0.0
018	11/15/2018	11:30:54	0.0	0.0
019	11/15/2018	11:31:54	0.0	0.0
020	11/15/2018	11:32:54	0.0	0.0
021	11/15/2018	11:33:54	0.0	0.0
022	11/15/2018	11:34:54	0.0	0.0
023	11/15/2018	11:35:54	0.0	0.0
024	11/15/2018	11:36:54	0.0	0.0
025	11/15/2018	11:37:54	0.0	0.0
026	11/15/2018	11:38:54	0.0	0.0
027	11/15/2018	11:39:54	0.0	0.0
028	11/15/2018	11:40:54	0.0	0.0
029	11/15/2018	11:41:54	0.0	0.0
030	11/15/2018	11:42:54	0.0	0.0
031	11/15/2018	11:43:54	0.0	0.0
032	11/15/2018	11:44:54	0.0	0.0
033	11/15/2018	11:45:54	0.0	0.0
034	11/15/2018	11:46:54	0.0	0.0
035	11/15/2018	11:47:54	0.0	0.0
036	11/15/2018	11:48:54	0.0	0.0
037	11/15/2018	11:49:54	0.0	0.0
038	11/15/2018	11:50:54	0.0	0.0
039	11/15/2018	11:51:54	0.0	0.0
040	11/15/2018	11:52:54	0.0	0.0
041	11/15/2018	11:53:54	0.0	0.0
042	11/15/2018	11:54:54	0.0	0.0
043	11/15/2018	11:55:54	0.0	0.0
044	11/15/2018	11:56:54	0.0	0.0
045	11/15/2018	11:57:54	0.0	0.0
046	11/15/2018	11:58:54	0.0	0.0
047	11/15/2018	11:59:54	0.0	0.0
048	11/15/2018	12:00:54	0.0	0.0
049	11/15/2018	12:01:54	0.0	0.0
050	11/15/2018	12:02:54	0.0	0.0
051	11/15/2018	12:03:54	0.0	0.0
052	11/15/2018	12:04:54	0.0	0.0
053	11/15/2018	12:05:54	0.0	0.0
054	11/15/2018	12:06:54	0.0	0.0
055	11/15/2018	12:07:54	0.0	0.0
056	11/15/2018	12:08:54	0.0	0.0

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057	11/15/2018	12:09:54	0.0	0.0
058	11/15/2018	12:10:54	0.0	0.0
059	11/15/2018	12:11:54	0.0	0.0
060	11/15/2018	12:12:54	0.0	0.0
061	11/15/2018	12:13:54	0.0	0.0
062	11/15/2018	12:14:54	0.0	0.0
063	11/15/2018	12:15:54	0.0	0.0
064	11/15/2018	12:16:54	0.0	0.0
065	11/15/2018	12:17:54	0.0	0.0
066	11/15/2018	12:18:54	0.0	0.0
067	11/15/2018	12:19:54	0.0	0.0
068	11/15/2018	12:20:54	0.0	0.0
069	11/15/2018	12:21:54	0.0	0.0
070	11/15/2018	12:22:54	0.0	0.0
071	11/15/2018	12:23:54	0.0	0.0
072	11/15/2018	12:24:54	0.0	0.0
073	11/15/2018	12:25:54	0.0	0.0
074	11/15/2018	12:26:54	0.0	0.0
075	11/15/2018	12:27:54	0.0	0.0
076	11/15/2018	12:28:54	0.0	0.0
077	11/15/2018	12:29:54	0.0	0.0
078	11/15/2018	12:30:54	0.0	0.0
079	11/15/2018	12:31:54	0.0	0.0
080	11/15/2018	12:32:54	0.0	0.0
081	11/15/2018	12:33:54	0.0	0.0
082	11/15/2018	12:34:54	0.0	0.0
083	11/15/2018	12:35:54	0.0	0.0
084	11/15/2018	12:36:54	0.0	0.0
085	11/15/2018	12:37:54	0.0	0.0
086	11/15/2018	12:38:54	0.0	0.0
087	11/15/2018	12:39:54	0.0	0.0
088	11/15/2018	12:40:54	0.0	0.0
089	11/15/2018	12:41:54	0.0	0.0
090	11/15/2018	12:42:54	0.0	0.0
091	11/15/2018	12:43:54	0.0	0.0
092	11/15/2018	12:44:54	0.0	0.0
093	11/15/2018	12:45:54	0.0	0.0
094	11/15/2018	12:46:54	0.0	0.0
095	11/15/2018	12:47:54	0.0	0.0
096	11/15/2018	12:48:54	0.0	0.0
097	11/15/2018	12:49:54	0.0	0.0
098	11/15/2018	12:50:54	0.0	0.0
099	11/15/2018	12:51:54	0.0	0.0
100	11/15/2018	12:52:54	0.0	0.0
101	11/15/2018	12:53:54	0.0	0.0
102	11/15/2018	12:54:54	0.0	0.0
103	11/15/2018	12:55:54	0.0	0.0
104	11/15/2018	12:56:54	0.0	0.0

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105	11/15/2018	12:57:54	0.0	0.0
106	11/15/2018	12:58:54	0.0	0.0
107	11/15/2018	12:59:54	0.0	0.0
108	11/15/2018	13:00:54	0.0	0.0
109	11/15/2018	13:01:54	0.0	0.0
110	11/15/2018	13:02:54	0.0	0.0
111	11/15/2018	13:03:54	0.0	0.0
112	11/15/2018	13:04:54	0.0	0.0
113	11/15/2018	13:05:54	0.0	0.0
114	11/15/2018	13:06:54	0.0	0.0
115	11/15/2018	13:07:54	0.0	0.0
116	11/15/2018	13:08:54	0.0	0.0
117	11/15/2018	13:09:54	0.0	0.0
118	11/15/2018	13:10:54	0.0	0.0
119	11/15/2018	13:11:54	0.0	0.0
120	11/15/2018	13:12:54	0.0	0.0
121	11/15/2018	13:13:54	0.0	0.0
122	11/15/2018	13:14:54	0.0	0.0
123	11/15/2018	13:15:54	0.0	0.0
124	11/15/2018	13:16:54	0.0	0.0
125	11/15/2018	13:17:54	0.0	0.0
126	11/15/2018	13:18:54	0.0	0.0
127	11/15/2018	13:19:54	0.0	0.0
128	11/15/2018	13:20:54	0.0	0.0
129	11/15/2018	13:21:54	0.0	0.0
130	11/15/2018	13:22:54	0.0	0.0
131	11/15/2018	13:23:54	0.0	0.0
132	11/15/2018	13:24:54	0.0	0.0
133	11/15/2018	13:25:54	0.0	0.0
134	11/15/2018	13:26:54	0.0	0.0
135	11/15/2018	13:27:54	0.0	0.0
136	11/15/2018	13:28:54	0.0	0.0
137	11/15/2018	13:29:54	0.0	0.0
138	11/15/2018	13:30:54	0.0	0.0
139	11/15/2018	13:31:54	0.0	0.0
140	11/15/2018	13:32:54	0.0	0.0
141	11/15/2018	13:33:54	0.0	0.0
142	11/15/2018	13:34:54	0.0	0.0
143	11/15/2018	13:35:54	0.0	0.0
144	11/15/2018	13:36:54	0.0	0.0
145	11/15/2018	13:37:54	0.0	0.0
146	11/15/2018	13:38:54	0.0	0.0
147	11/15/2018	13:39:54	0.0	0.0
148	11/15/2018	13:40:54	0.0	0.0
149	11/15/2018	13:41:54	0.0	0.0
150	11/15/2018	13:42:54	0.0	0.0
151	11/15/2018	13:43:54	0.0	0.0
152	11/15/2018	13:44:54	0.0	0.0

PRS_EXPORT_20181119.txt38160

153	11/15/2018 13:45:54	0.0	0.0
154	11/15/2018 13:46:54	0.0	0.0

Appendix F
QHHEA



1.0 INTRODUCTION

This Human Health Exposure Assessment (HHEA) was prepared on behalf of Hunters Point SG, LLC. The HHEA is a qualitative assessment conducted in accordance with New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation (DER) requirements. The HHEA consists of an exposure assessment — an evaluation to determine the route, intensity, frequency, and duration of actual or potential exposures of humans to site-related contaminants (NYSDEC 2017)

The HHEA characterizes the exposure setting including qualitative characterizations of the physical environment, the potentially exposed human populations, and associated exposure pathways at a site and surrounding areas. Potentially complete exposure pathways are defined for the constituents of potential concern (COPCs). In addition, contaminant fate and transport mechanisms are evaluated.

A four-step process is utilized for assessing site-related human health risks for a reasonable maximum exposure (RME) scenario: *Hazard Identification* – identifies the contaminants of potential concern at the site based on several factors such as toxicity, frequency of occurrence and concentration. *Exposure Assessment* – estimates the magnitude of actual and/or potential human exposures, the frequency and duration of these exposures and the exposure pathways (i.e., ingesting contaminated soil) under current and likely future land use scenarios. *Toxicity Assessment* – determines the types of adverse health effects associated with chemical exposures, and the relationship between magnitude of exposure (dose) and severity of adverse effects (response). *Risk Characterization* – summarizes and combines outputs of the exposure and toxicity assessments to provide a quantitative assessment of site-related risks and hazards, and presents a discussion of the uncertainties of the process.

1.1 Site Location and Description

27-10 49th Avenue, Long Island City, New York (NYSDEC Brownfield Cleanup Program Site No. C241219) is located in the intersection of 49th Avenue and 27th Street in Long Island City, New York (“Site”). A site location map is provided as **Figure 1** and a site plan is provided as **Figure 2**, with block and lot boundaries shown on **Figure 2A**.

The Site is 38,300-square feet and is currently developed with one (1) two-story office and warehouse building, formerly operated by Black Bear Lubricants Inc. and Carey Limousine, and an associated parking lot. The subject property is currently vacant, Black Bear Lubricants vacated the first floor in December 2017 and Carey Limousine vacated the second floor office area in June 2018.

1.2 Site Background

A comprehensive background of the Site is included in the Remedial Investigation Report (RIR) prepared by AESI in December 2018.

Previous environmental investigations performed by AESI at the site, concluded that chlorinated solvent related constituents are the primary impacts at the site. In addition, elevated levels of metals and polyaromatic hydrocarbons (PAHs) are present but attributed to fill material. Data collected by AESI, soil gas, soil/fill and groundwater samples were identified at with concentrations of select volatile organic compounds (VOCs), semi-volatile, organic compounds (SVOCs), and metals exceeding the Air Guideline Values (AGV) derived by the NYSDOH located in the NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion dated as updated in May 2017, the NYSDEC Part 375 Restricted Use Soil Cleanup



Objectives-(SCO), Protection of Groundwater, Restricted Commercial and Restricted Industrial, and the NYSDEC TOGS Standards and Guidance Values (TOGS SGV) – GA, respectively.

As previously noted, this HHEA was conducted in accordance with NYSDEC Technical Guidance (NYSDEC 2017). This report presents an evaluation of the data representing the various environmental media at the Site, an evaluation of the potential fate and transport of the constituents in the environmental media, and an evaluation of the potential for human exposure to the constituents at the Site.

2.0 DATA EVALUATED IN THE HUMAN HEALTH EXPOSURE ASSESSMENT

Surface and subsurface soil, groundwater, and soil vapor data presented in this HHEA includes all the data collected by AESI as part of the Remedial Investigation activities, performed during the October and November 2018, and the data previously provided to NYSDEC in the RIWP submitted in August 2018 and approved in October 2018 by the NYSDEC.

The October and November 2018 samples were analyzed for Part 375 List VOCs, SVOCs, PCBs, Pesticides and both filtered and unfiltered TAL metals. All the data presented was compared to 6 New York Codes, Rules and Regulations (NYCRR) Part 375 SCOs and Technical and Operational Guidance Series (TOGS) 1.1.1 Standards for Class GA groundwater.

The following subsections briefly discuss the analytical data representing each medium as well as the results relative to risk-based screening levels used to identify COPCs—defined as chemical constituents that exceed conservative screening levels protective of human health. The discussion includes the results of the October and November 2018 remedial investigation activities and the data presented in the RIWP.

2.1 Soil

The NYSDEC Part 375 SCOs - Protection of Groundwater, Restricted Commercial and Restricted Industrial are presented along with the analytical soil data in RIR Tables 1 and 2. Data for soil samples collected during the end of 2017 and the spring of 2018 were submitted in the RIWP. For the purposes of this HHEA, the protection of groundwater SCO is not considered. Commercial and Industrial exposures are included in the HHEA as these are the most likely future use of the property.

The Commercial and Industrial SCOs are risk-based soil levels protective of potential exposures via incidental ingestion, inhalation of particulates and vapors, and dermal contact with soils. The SCOs are also protective of potential exposures associated with active recreational land uses, which are defined as general public uses with a reasonable potential for soil contact (NYSDEC and New York State Department of Health [NYSDOH] 2006).

2.1.1 Surface Soil

For the purposes of this HHEA, surface soil is defined as 0 to 2 feet below ground surface (bgs). However, the term “surface” is misleading in that soil samples were collected from beneath the impervious surface materials (asphalt and cement) currently present across the Site.

The surface soil dataset presented in the **RIR** tables includes the samples collected during the end of 2017, the spring of 2018 and during October and November 2018. The soil sampling locations are presented on **Figure 4**. Given that future land use is most likely to be consistent with current commercial land use, Commercial SCOs are used to identify COPCs in surface soil under a future commercial use scenario when the soil is accessible



Based on the assumption of future commercial land use involving accessible soil at the Site and exceedances of Commercial SCOs, the surface soil COPCs for a commercial use scenario include benzo(a)anthracene, benzo(a)pyrene, benzo(k)fluoranthene, dibenzo(a,h)anthracene, ideno(1,2,3-cd)pyrene, arsenic, barium, copper, lead, nickel and mercury were detected at concentrations exceeding the standards.

Contamination consistent with fill material has been identified in shallow soils across the Site. The fill material was originally placed on the Site to raise the elevation prior to development. Therefore, it is likely the COPCs (particularly arsenic, copper, lead and barium) identified in surface soil beneath the paved surface are related to the historical fill used at the Site and surrounding areas.

2.2 Groundwater

NYSDEC TOGS Standards and Guidance Values (TOGS SGV) – GA. (NYSDEC 1998) were compared to groundwater data as presented in Table 2 of the RIR. The Class GA Standards are promulgated standards protective of drinking water sources. The guidance values are used for constituents that lack promulgated standards. The use of these values as risk-based screening levels in this HHEA is not appropriate given that groundwater on the Site is not used as a potable source under either the current or future use scenarios; therefore, these values are not used to identify groundwater COPCs in this HHEA.

The United States Environmental Protection Agency (USEPA) residential Vapor Intrusion Screening Levels (VISLs; USEPA 2018) may be appropriate to evaluate the potential for vapor migration to indoor air in a future building (commercial). The groundwater VISLs were obtained from USEPA's online VISL Calculator and are protective of indoor air in a commercial building and a residential building. For each analyte, the groundwater VISL represents the lower of a risk-based screening level protective of noncarcinogenic health effects at a target hazard limit of 0.1 and/or a screening level protective of cancer risks at a one in one million (1E-06) target cancer risk limit. As discussed below, the evaluation consists of comparing the USEPA VISLs protective of future commercial and residential buildings to the groundwater data presented in RIR Table 2.

The RIR includes the analytical laboratory reports for each groundwater sample and presents the full set of analytical data representing groundwater at the Site. Groundwater samples were analyzed for VOCs, SVOCs (including PAHs), PCBs, pesticides, herbicides, TAL metals and PFAS. To identify the COPCs in groundwater, risk-based groundwater levels protective of the vapor intrusion indoor air pathway were compared to the detected groundwater analytes. As previously discussed, USEPA groundwater VISLs protective of indoor air in a commercial building (USEPA 2018) are used to identify COPCs under a future worker scenario and a future residential scenario, respectively.

Under a future residential use scenario whereby a residential building is constructed and occupied at the Site, the following groundwater analytes are identified as COPCs:

Analytes in Groundwater Exceeding Commercial VISLs:

Based on this conservative evaluation, no COPCs exceed the VISL. As noted for soil, the presence of PAHs is likely related to use of historical fill at the Site.



2.4 Soil Vapor

As previously noted, soil gas data are included in the RIR. For evaluating the soil gas data in this HHEA, it was assumed that the future building use would be commercial/industrial use. USEPA has developed soil gas VISLs protective of commercial and residential exposures. In addition, NYSDOH has prepared a soil vapor/indoor air decision matrix for eight volatile compounds (NYSDOH 2017). Thus, the decision matrix was adapted for use in this HHEA by considering only the sub-slab vapor thresholds for the volatile compounds as follows:

Tetrachloroethene (PCE and Trichloroethene (TCE))

- If the soil gas concentration is less than 6 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$), no further action is required.
- If the soil gas concentration is greater than 6 $\mu\text{g}/\text{m}^3$ but less than the USEPA soil gas VISL, no further action is required.
- If the soil gas concentration exceeds the VISL or 60 $\mu\text{g}/\text{m}^3$, a potential exists for future risk from exposure.

Tetrachloroethene (PCE and Trichloroethene (TCE))

- If the soil gas concentration is less than 100 $\mu\text{g}/\text{m}^3$, no further action is required.
- If the soil gas concentration is greater than 100 $\mu\text{g}/\text{m}^3$ but less than the USEPA soil gas VISL, no further action is required.
- If the soil gas concentration exceeds the VISL or 1,000 $\mu\text{g}/\text{m}^3$, a potential exists for future risk from exposure.

Tetrachloroethene (PCE and Trichloroethene (TCE))

- If the soil gas concentration is less than 6 $\mu\text{g}/\text{m}^3$ and less than the USEPA soil gas VISL, no further action is required.
- If the soil gas concentration is greater than 6 $\mu\text{g}/\text{m}^3$ but less than the USEPA soil gas VISL, no further action is required.
- If the soil gas concentration exceeds the VISL or 60 $\mu\text{g}/\text{m}^3$, a potential exists for future risk from exposure.

The soil vapor analytical data is included in the RIR as Table 3. As previously described, for the purpose of this HHEA, the data for select compounds were compared to NYSDOH sub-slab thresholds and USEPA's soil gas VISLs protective of commercial indoor air. PCE and TCE were detected in soil gas samples at concentrations exceeding the residential risk-based levels and are identified as COPCs.

Based on the evaluation of soil gas data, a soil gas mitigation system should be installed to address the potential for vapor intrusion into the occupied space of the building.

2.5 Summary of Constituents of Potential Concern

A summary of site COPCs identified for potential future residential and commercial use scenarios is presented above.



3.0 CONTAMINANT FATE AND TRANSPORT

This section presents the general environmental fate and transport characteristics for site COPCs based on information obtained from toxicological profiles developed by the Agency for Toxic Substances and Disease Registry (ATSDR) and from information provided in the Hazardous Substances Data Bank (HSDB).

Arsenic

Arsenic is identified as a COPC in surface and subsurface soils. According to ATSDR, arsenic is a naturally occurring element widely distributed in the earth's crust. Anthropogenic sources of arsenic include non-ferrous mining and smelting wastes, pesticide applications, wood combustion, and waste incineration. In the environment, arsenic is combined with oxygen, chlorine, and sulfur to form inorganic arsenic compounds. Arsenic in animals and plants combines with carbon and hydrogen to form organic arsenic compounds. Arsenic in soil may be transported by wind and runoff or may leach into subsurface soil. In sediments, arsenic may be sorbed to iron and manganese oxides and may be released under reducing conditions. Transport and partitioning of arsenic in water depends upon its chemical form (i.e., oxidation state) and other materials present. Arsenic may be present in soluble form in the water column or adsorbed onto sediments or soils. Groundwater arsenic concentrations are generally controlled by adsorption rather than mineral precipitation. Bioconcentration of arsenic occurs in aquatic organisms, primarily in algae and lower invertebrates, although biomagnification in aquatic food chains does not appear to be significant (ATSDR 2007a).

Barium

Barium is identified as a COPC in surface soils. Barium is a naturally occurring element often associated with minerals where it is released during normal weathering processes. Anthropogenic sources include industrial processes (e.g., mining, refining barium). Barium released to the atmosphere is most likely to be present in particulate form and will be removed by wet and/or dry deposition to ground or water surfaces. In soils, barium is typically either bioconcentrated by plants or transported through soil with precipitation, although it is not very mobile in most soil systems because it forms water-insoluble barium salts. In aquatic systems, barium is most likely to precipitate out of the solution as an insoluble salt, which may settle into sediment. Barium is bioconcentrated by aquatic plants and also bioaccumulates in higher level biota (ATSDR 2007b).

Cadmium

Cadmium is identified as a COPC in subsurface soils. According to ATSDR, cadmium is a naturally occurring element often associated with minerals where it is released during normal weathering processes. Anthropogenic sources include industrial processes (e.g., manufacture, use, and disposal of products intentionally utilizing cadmium), or from the presence of cadmium as a natural but not functional impurity in non-cadmium-containing products (fertilizers, cement, alloys of zinc, lead, and copper).

Cadmium is expected to partition to soil when released to the environment. Cadmium emitted to the atmosphere condenses onto very small particulates that are in the respirable range and are subject to long-range transport. Particulate and vapor cadmium may be released to the air but will eventually deposit onto soils. Cadmium-containing particulates may dissolve in atmospheric water droplets and be removed from air by wet deposition. Cadmium is more mobile in aquatic environments than most other heavy metals. In unpolluted natural waters, most cadmium transported in the water column will exist in the dissolved state. In polluted or organic-rich waters,



adsorption of cadmium by humic substances and other organic complexing agents plays a dominant role in transport, partitioning, and remobilization of cadmium. The cadmium concentration in water is inversely related to the pH and the concentration of organic material in the water. Cadmium has a relatively long residence time in aquatic systems. Cadmium is not known to form volatile compounds in the aquatic environment; therefore, partitioning from water to the atmosphere does not occur. Precipitation and sorption to mineral surfaces, hydrous metal oxides, and organic materials are the most important processes for removal of cadmium to bed sediments. Humic acid is the major component of sediment responsible for adsorption. Sorption increases as the pH increases. In soils, pH, oxidation-reduction reactions, and formation of complexes are important factors affecting the mobility of cadmium. Cadmium in soils may leach into water, especially under acidic conditions. Cadmium is taken up efficiently by plants and, therefore, enters the food chain for humans and other animals. Aquatic and terrestrial organisms bioaccumulate cadmium and cadmium bioaccumulates in all levels of the food chain (ATSDR 2012a).

Copper

Copper is identified as a COPC in surface soils. According to ATSDR, copper is a naturally occurring element. Anthropogenic sources include industrial processes (mining operations, agriculture, sludge from publicly owned treatment works [POTWs], and municipal and industrial solid waste). Copper is released to the atmosphere in the form of particulate matter or adsorbed to particulate matter. It is removed by gravitational settling (bulk deposition), dry deposition, in-cloud scavenging (attachment of particles by droplets within clouds), and washout. The importance of wet to dry deposition generally increases with decreasing particle size. Much of the copper discharged into waterways is in particulate matter and settles out. In the water column and in sediments, copper adsorbs to organic matter, hydrous iron and manganese oxides, and clay. Most copper deposited on soil is adsorbed with greater concentrations in the upper 5 to 10 centimeters of soil except in sandy soils where the lability of bound copper is greater. Copper's movement in soil is determined by the soil components. In general, copper will adsorb to organic matter, carbonate minerals, clay minerals, or hydrous iron and manganese oxides. Sandy soils with low pH have the greatest potential for leaching. Soil microorganisms also affect the absorption of copper in soils due to the uptake and assimilation of the metal by these microorganisms. Copper binds strongly to soils with high organic content (ATSDR 2004).

Lead

Lead is identified as a COPC in surface and subsurface soils. Lead is an element. According to ATSDR, anthropogenic sources of lead include mining and smelting of ore, manufacture of lead-containing products, combustion of coal and oil, and waste incineration. Because lead does not degrade, the historical uses of lead (including in gasoline, paint, solder [food cans], pesticides, etc.) result in elevated concentrations in the environment and particularly in urban environments. In the atmosphere, non-organic compounds of lead exist primarily in the particulate form. Upon release to the atmosphere, lead particles are dispersed and ultimately removed from the atmosphere by wet or dry deposition. Wet deposition is more important than dry deposition for removing lead from the atmosphere. The amount of soluble lead in surface waters depends upon the pH of the water and the dissolved salt content. A significant fraction of lead carried by river water is expected to be in an undissolved form, which can consist of colloidal particles or larger undissolved particles of lead carbonate, lead oxide, lead hydroxide, or other lead as sorbed ions or surface coatings on sediment mineral particles, or it may be carried as a part of suspended living or nonliving organic matter in water. The fate of lead in soil is affected by the adsorption at mineral interfaces, the precipitation of sparingly soluble solid forms of the compound, and the formation of relatively stable organic-metal complexes or chelates with soil organic matter. These processes are dependent on factors such as soil pH, soil type, and particle size, organic matter content of soil, the presence of inorganic colloids and iron oxides, cation exchange capacity, and the amount of lead in soil. The mobility of lead increases in environments having low



pH due to the enhanced solubility of lead under acidic conditions. The accumulation of lead in most soils is primarily a function of the rate of deposition from the atmosphere. Most lead is retained strongly in soil, and very little is transported through runoff to surface water or leaching to groundwater except under acidic conditions. Lead is strongly sorbed to organic matter in soil, and although not subject to leaching, it may enter surface waters as a result of erosion of lead-containing soil particulates. Lead may be taken up in edible plants from the soil via the root system, by direct foliar uptake and translocation within the plant, and by surface deposition of particulate matter. Uptake of lead in animals may occur as a result of inhalation of contaminated ambient air or ingestion of contaminated plants. However, lead is not biomagnified in aquatic or terrestrial food chains. Plants and animals may bioconcentrate lead, but biomagnification is not expected (ATSDR 2007d).

Manganese

Manganese is identified as a COPC in subsurface soils. According to ATSDR, manganese is widely distributed in the environment from both natural and anthropogenic sources. Anthropogenic sources include industrial processes (e.g., iron and steel production facilities, power plants, coke ovens, use as a gasoline additive). Manganese compounds have negligible vapor pressures but may exist in air as suspended particulate matter. Manganese-containing particles are mainly removed from the atmosphere by gravitational settling, with large particles tending to fall out faster than small particles. The transport and partitioning of manganese in water are controlled by the solubility of the specific chemical form present, which is in turn determined by pH, oxidation-reduction potential, and characteristics of the available anions. Manganese is generally transported in rivers as suspended sediments. Manganese in water may be significantly bioconcentrated at lower trophic levels. The ability of soluble manganese compounds to adsorb to soils and sediments depends largely on the cation exchange capacity and organic composition of the soil (ATSDR 2012b).

Mercury

Mercury is identified as a COPC in surface and subsurface soils. According to ATSDR, natural sources of mercury include volcanic eruptions and emissions from the ocean. Anthropogenic sources include emissions from fuels or raw materials, or from uses in products or industrial processes. Some of the mercury circulating through today's environment was released years ago. The natural global biogeochemical cycling of mercury is characterized by degassing of the element from soils and surface waters, followed by atmospheric transport, deposition of mercury back to land and surface waters, and sorption of the compound to soil or sediment particulates. Mercury deposited on land and open water is in part re-volatilized back into the atmosphere. Mercury has three valence states. The specific state and form in which the compound is found in an environmental medium are dependent upon a number of factors, including the oxidation-reduction potential and pH of the medium. Metallic mercury released in vapor form to the atmosphere can be transported long distances before it is converted to other forms of mercury, and wet and dry deposition processes return it to land and water surfaces. In soils and surface waters, mercury can exist in the mercuric (Hg_{+2}) and mercurous (Hg_{+1}) states as a number of complex ions with varying water solubilities. Mercuric mercury, present as complexes and chelates with ligands, is likely the predominant form of mercury present in surface waters. The transport and partitioning of mercury in surface waters and soils are influenced by the particular form of the compound. Volatile forms (e.g., metallic mercury and dimethylmercury) are expected to evaporate to the atmosphere, whereas solid forms partition to particulates in the soil or water column and are transported downward in the water column to the sediments. The dominant process controlling the distribution of mercury compounds in the environment appears to be the sorption of nonvolatile forms to soil and sediment particulates, with little resuspension from the sediments back into the water column. The sorption process has been found to be related to the organic matter content of the soil or sediment. The most common organic form of mercury, methylmercury, is soluble, mobile, and quickly enters the aquatic food chain. This form of mercury is



accumulated to a greater extent in biological tissue than are inorganic forms of mercury. Mercury will bioaccumulate in aquatic and terrestrial food chains (ATSDR 1999).

Nickel

Nickel is identified as a COPC in subsurface soil. Nickel is released to the atmosphere in the form of particulate matter or adsorbed to particulate matter. It is dispersed by wind and removed by gravitational settling (sedimentation), dry deposition, washout by rain, and rainout. Gravitational settling governs the removal of large particles (greater than 5 micrometers), whereas smaller particles are removed by other forms of dry and wet deposition. The importance of wet deposition relative to dry deposition generally increases with decreasing particle size. The fate of heavy metals in aquatic systems depends on partitioning between soluble and particulate solid phases. Adsorption of nickel onto suspended particles in water is one of the main removal mechanisms of nickel from the water column. Much of the nickel released into waterways as runoff is associated with particulate matter; it is transported and settles out in areas of active sedimentation such as the mouth of a river. Nickel is strongly adsorbed at mineral surfaces such as oxides and hydrous oxides of iron, manganese, and aluminum. Such adsorption plays an important role in controlling the concentration of nickel in natural waters. Nickel is strongly adsorbed by soil. Soil properties such as texture, bulk density, pH, organic matter, the type and amount of clay minerals, and certain hydroxides, as well as the extent of groundwater flow, influence the retention and release of metals by soil. Nickel is not accumulated in significant amounts by aquatic organisms. Uptake and accumulation of nickel into various plant species is known to occur (ASTDR 2005).

Benzene

Benzene is identified as a COPC in subsurface soil, groundwater, and soil vapor. According to ATSDR, sources of benzene emissions include gasoline vapors, automobile exhaust, cigarette smoke, chemical production, and user facilities. The high volatility of benzene is the controlling physical property in the environmental transport and partitioning of this chemical (ATSDR 2007c). Benzene will exist solely as a vapor in the ambient atmosphere. Benzene is very water soluble and may be removed from the atmosphere by rain (HSDB 2014). A substantial portion of any benzene in rainwater that is deposited to soil or water will be returned to the atmosphere via volatilization. Benzene released to soil surfaces partitions to the atmosphere through volatilization, to surface water through runoff, and to groundwater as a result of leaching. Benzene is highly mobile in soil and readily leaches into groundwater. Greater soil adsorption occurs with increasing organic matter content (ATSDR 2007c). Benzene is expected to biodegrade in soils. If released into water, benzene is not expected to adsorb to sediment and suspended solids. Volatilization from soil and water surfaces is expected to be an important fate process (HSDB 2014). Benzene does not bioaccumulate in marine organisms. Since benzene exists primarily in the vapor phase, air-to-leaf transfer is considered to be the major pathway of vegetative contamination. Benzene accumulates in leaves and fruits of plants (ATSDR 2007c).

Chloroform

Chloroform is identified as a COPC in groundwater. According to ATSDR, chloroform is both a synthetic and naturally occurring compound, although anthropogenic sources are responsible for most of the chloroform in the environment. Chloroform is released into the environment as a result of its manufacture and use; its formation in the chlorination of drinking water, municipal and industrial wastewater, and swimming pool and spa water; and from other water treatment processes involving chlorination. Historically, chloroform was used as a solvent to extract fats, oils, and greases; as a dry-cleaning agent; in fire extinguishers; and as a fumigant and anesthetic (NYSDEC 2018). Chloroform readily evaporates into air, and dissolves in groundwater (ATSDR 1997). Chloroform typically volatilizes to the atmosphere from surface water or shallow soils. Chloroform may leach from soil into groundwater, has a low



adsorption capacity, and is soluble in water. Chloroform persists in groundwater for a long time. Most chloroform in the environment eventually enters the atmosphere, where it may be transported and/or degraded by photochemical reactions. Significant bioaccumulation of chloroform does not occur in aquatic food chains (ATSDR 1997).

Ethylbenzene

Ethylbenzene is identified as a COPC in groundwater. Ethylbenzene is used primarily in the production of styrene. It is also used as a solvent, as a constituent of asphalt and naphtha, and in fuels (NYSDEC 2018). Ethylbenzene has a high vapor pressure and will partition into the atmosphere from surface soils and surface water; subsurface soil infiltration will also occur (ATSDR 2010a). This chemical has a relatively high mobility in soils because sorption is not significant enough to prevent migration. Ethylbenzene will leach into groundwater, particularly in soils with low organic carbon content. Significant bioaccumulation does not occur in aquatic food chains. In surface water, ethylbenzene can be transformed via photo-oxidation and biodegradation. In soils, aerobic soil microbes are responsible for biodegradation.

Toluene

Toluene is identified as a COPC in groundwater. The primary use of toluene is as a mixture added to gasoline to improve octane ratings. Toluene is also used to produce benzene and as a solvent in paints, coatings, synthetic fragrances, adhesives, inks, and cleaning agents. Toluene is also used in the production of polymers used to make nylon, plastic soda bottles, and polyurethanes and for pharmaceuticals, dyes, cosmetic nail products, and the synthesis of organic chemicals (NYSDEC 2018).

If released to the environment, toluene tends to partition to air and when released to surface water or soil will volatilize quickly (ATSDR 2017). Toluene will exist solely as a vapor in the ambient atmosphere. Volatilization from surface soil and water surfaces is expected to be an important fate process. Toluene present in deep soil is much less likely to volatilize. Biodegradation is expected to occur rapidly in soil surfaces. Toluene is expected to be moderately to highly mobile in soil (HSDB 2016a). The rate of toluene transport to groundwater depends on the degree of adsorption to soil. Toluene is moderately retarded by adsorption to soils rich in organic matter but is readily leached from soils with low organic content (ATSDR 2017). If released into water, toluene is not expected to adsorb to suspended solids and sediment. Biodegradation is expected to occur rapidly in water. Bioconcentration in aquatic organisms is low to moderate (HSDB 2016a). Based on its lipophilic properties, toluene is expected to have a low tendency to bioconcentrate in the fatty tissues of aquatic organisms. The levels that accumulate in the flesh of aquatic species also depend on the degree to which the species metabolize toluene. The highest tissue levels of toluene tend to occur in species such as eels, crabs, and herring that have a low rate of toluene metabolism. Metabolism of toluene limits its tendency to biomagnify in the food chain (ATSDR 2017).

Trichloroethene (TCE)

TCE is identified as a COPC in soil vapor. TCE is used in the vapor degreasing of metal parts as an extraction solvent for greases, oils, fats, waxes, and tars. It is also a chemical intermediate of PCE and is a component in consumer products such as paint removers/strippers, adhesives, spot removers, rug cleaning fluids, and typewriter correction fluids (NYSDEC 2018). The major route of removal of TCE from water is volatilization; TCE is moderately soluble in water. TCE has lower potential for sorption of soil or sediment particles, has medium to high mobility in soils, and readily leaches into groundwater. TCE is not



expected to adsorb to suspended solids and sediments in water. TCE has a low to moderate tendency to bioaccumulate in aquatic systems and biomagnification is unlikely to be important (ATSDR 2014).

Tetrachloroethene (PCE)

PCE is identified as a COPC in soil vapor. PCE is used in the vapor degreasing of metal parts as an extraction solvent for greases, oils, fats, waxes, and tars. It is also a chemical intermediate of TCE and is a component in consumer products such as paint removers/strippers, adhesives, spot removers, rug cleaning fluids, and typewriter correction fluids (NYSDEC 2018). The major route of removal of PCE from water is volatilization; PCE is moderately soluble in water. PCE has lower potential for sorption of soil or sediment particles, has medium to high mobility in soils, and readily leaches into groundwater. PCE is not expected to adsorb to suspended solids and sediments in water. PCE has a low to moderate tendency to bioaccumulate in aquatic systems and biomagnification is unlikely to be important (ATSDR 2014).

Polycyclic Aromatic Hydrocarbons

Several PAHs are identified as COPCs in soils and groundwater. According to ATSDR, PAHs released to the environment are primarily a result of incomplete burning of organic material (e.g., wood, coal, oil, gasoline, and garbage). In addition to coal and wood ash used historically as fill material, PAHs have been associated with emissions from gasoline and diesel-powered engines. PAHs are also found petroleum residues incidental to the normal operation of motor vehicles, including crude oil, coal tar, creosote, and asphalt (Massachusetts Department of Environmental Protection 2002). PAHs are split into low molecular weight PAHs, which have less than four aromatic rings, and high molecular weight PAHs, which have more than four aromatic rings (ATSDR 1995). The site COPCs are high molecular weight PAHs (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene) with the exception of naphthalene, which is a low molecular weight PAH.

PAHs released to the atmosphere are subject to short- and long-range transport and are removed by wet and dry deposition onto soil, water, and vegetation. In surface water, PAHs can volatilize, photolyze, oxidize, biodegrade, bind to suspended particles or sediments, or accumulate in aquatic organisms (with bioconcentration factors often in the range of 10 to 10,000). In sediments, PAHs can biodegrade or accumulate in aquatic organisms. PAHs in soil can volatilize, undergo abiotic degradation (photolysis and oxidation), biodegrade, or accumulate in plants. PAHs in soil can also enter groundwater and be transported within an aquifer.

Generally, when found in air, PAHs that have four rings (chrysene, benzo[a]anthracene) are present in both the vapor and particulate phase, and PAHs having five or more rings (benzo[a]pyrene, benzo[g,h,i]perylene) are found predominantly in the particle phase. The high molecular weight PAHs will volatilize from water only to a limited extent. In general, PAHs have low water solubilities. Because of their low solubility and high affinity for organic carbon, PAHs in aquatic systems are primarily found sorbed to particles that either have settled to the bottom or are suspended in the water column.



Volatilization from soil and surface water is not an important transport mechanism for high molecular weight PAHs (ATSDR 1995)

4.0 POTENTIAL RECEPTORS AND EXPOSURE PATHWAYS

An initial step in evaluating the potential for human exposure to site COPCs is to identify the receptors and potentially complete exposure pathways. For an exposure pathway to be complete, the following five elements must exist:

- contaminant source
- contaminant release and transport mechanisms
- point of exposure
- route of exposure
- receptor population

An exposure pathway is considered incomplete and may be eliminated from further evaluation in the HHEA when any one of the five elements comprising an exposure pathway has not existed in the past, does not exist in the present, and can reasonably be anticipated to not exist in the future (New York City Department of Environmental Protection [NYCDEP] 2017).

Currently, the Site is a vacant. For the purposes of this assessment, it is assumed a trespasser could gain access to the Site. However, there is no potential for exposure to soil given that the ground surface is covered by impervious asphalt and cement. Finally, groundwater is not considered a drinking water source (NYCDEP 2017) and there is no potential for exposure. Surface water reservoirs located in upstate New York serve as the source of drinking water (NYCDEP 2018).

Potentially complete human exposure pathways for the Site exist only under a future use scenario. Although the future land use is considered to be consistent with current uses, should the Site be redeveloped in the future, potential future site receptors include the commercial worker (including indoor workers and outdoor workers), trespasser, and construction and/or utility worker. Exposure pathways for current and future use scenarios are evaluated below.

4.1 Potential direct contact with surface and subsurface soils—current site conditions

Based on current and anticipated future land use, commercial workers, construction or utility workers, and/or trespassers are potential receptors at the Site. However, the Site is currently covered by impervious surfaces of asphalt and cement that preclude exposure by any receptors to surface and subsurface soils. Therefore, the direct contact exposure pathway to COPCs in surface soil is incomplete for commercial workers and trespassers.

4.2 Potential direct contact with surface and subsurface soils—future site conditions

Based on potential future land use, construction and/or utility workers may be exposed to COPCs in surface and subsurface soils should intrusive activities (e.g., remediation, development, utility maintenance/repair) occur at the Site. Underground utility lines are assumed to be present on and in the vicinity of the Site. The maximum detected concentrations of the surface soil COPCs exceeding the Commercial SCO are associated with surface soil.



Although the potential exists that exposure by construction and utility workers to surface and subsurface soils may occur during any future intrusive activities, it is likely that workers involved with intrusive activities would follow appropriate health and safety plans (e.g., use of personal protective equipment [PPE] such as gloves, Tyvek® apparel, safety glasses, appropriate ventilation), mitigating any potential exposure to COPCs in surface and subsurface soils.

4.3 Potential inhalation of vapors and/or particulates

Under current conditions, there is no exposed surface or subsurface soils at the Site given that the entire Site is covered by impervious surfaces. Therefore, no potential exposure via inhalation currently exists for any current outdoor worker or trespasser. Construction and utility workers may be exposed to COPCs in subsurface soils and shallow groundwater via inhalation during future intrusive activities. However, as stated previously, future workers would be expected to follow appropriate health and safety protocols, mitigating the potential for any exposure.

Given that PCE and TCE analytes were detected are detected in soil gas at concentrations exceeding risk-based thresholds, a vapor mitigation system should be installed. Options to consider for the building include installation of a vapor barrier and/or vapor mitigation system.

4.4 Potential direct contact with groundwater (construction/utility workers)

Shallow groundwater on the Site flows east towards the Dutch Kills and is generally encountered at a depth of approximately 8 to 11 feet bgs. Groundwater is not used as a potable source, nor is it hydraulically connected to a potable source.

Under future conditions, it is possible that future receptors would include commercial workers and/or Utility/construction workers involved with an excavation. However, as previously stated, groundwater is not utilized as a drinking water source and there is no other pathway that would allow exposure to groundwater.

Future construction and/or utility workers could potentially be exposed to groundwater on the Site during intrusive activities. However, it is expected that intrusive activities would include engineering controls (dewatering) to prevent shallow groundwater from infiltrating an excavation or trench. Additionally, potential exposure to shallow groundwater by a construction and/or utility worker would be mitigated by the use of PPE and implementation of required health and safety protocols.

5.0 SUMMARY AND CONCLUSIONS

This HHEA presents a qualitative exposure assessment characterizing the exposure setting, evaluates contaminant fate and transport pathways, and identifies potentially complete exposure pathways.

Analytical data indicate that site COPCs include, PAHs, and metals. The RIR indicates that metals and PAHs at concentrations exceeding SCOs are common in historical fill used at the Site. Urban fill similar to that placed at the Site is ubiquitous throughout Long Island City and elsewhere in New York City.

Under current conditions, there is no complete exposure pathway to surface soil. Although trespassers and commercial workers could be present at the Site, the entire Site is covered with an impervious surface, precluding potential exposure to surface soil.



The potential for exposure to COPCs in surface and subsurface soils is limited to future construction or excavation activities whereby the asphalt or concrete covering the Site is removed. Potential exposure of future construction and/or utility workers that may be engaged in intrusive activities would likely be mitigated through the use of appropriate required health and safety protocols (e.g., engineering controls and PPE).

Groundwater is not used as a potable resource at the Site under current and future conditions. Under current conditions, there is no potential for volatiles in the subsurface to migrate into indoor air via vapor intrusion. Under a future use scenario, it is possible that construction workers and/or utility workers could be in contact with Site groundwater infiltrating an excavation at 15 feet bgs (the depth to groundwater is 3 to 6 feet bgs on average). Although the exposure to shallow groundwater pathway is considered potentially complete for these receptors, potential exposure to groundwater during future intrusive activities is expected to be mitigated with the use of appropriate required health and safety protocols including PPE.

