SAMPLING AND ANALYSIS PLAN
RIDGEWOOD VILLAGE HISTORIC SITE
460 WEST SADDLE RIVER ROAD
BLOCK 4704, LOT 9, 10, 11, 12
VILLAGE OF RIDGEWOOD, BERGEN COUNTY, NEW JERSEY

MATRIXNEWORLD

Engineering Progress

Submitted to:
Bureau of Solid Waste Compliance & Enforcement
New Jersey Department of Environmental Protection
9 Ewing Street
P.O. Box 420
Trenton, New Jersey 08625-0420

Submitted for:
Mr. Christopher Rutishauser, P.E., CPWM
Director of Public Works/Village Engineer
Village of Ridgewood
131 North Maple Avenue
Ridgewood, New Jersey 07450

Submitted by:
Matrix New World Engineering, Land Surveying
and Landscape Architecture, P.C.
26 Columbia Turnpike
Florham Park, New Jersey 07932

Matrix No. 23-1423

March 2024

EXECUTIVE SUMMARY

Matrix New World Engineering, Land Surveying, and Landscape Architecture, P.C. (Matrix) on behalf of the Village of Ridgewood, was contracted to prepare this Sampling and Analysis Plan (SAP) for the property located at 460 West Saddle River Road, Ridgewood, Bergen County, New Jersey (Site). The property consists of Block 4704, Lots 9, 10, 11, and 12. The Site underwent soil importation efforts as part of redevelopment activities to improve the Site with passive and active recreational spaces. The redevelopment activities include the construction of a berm along the western boundary of the Site and general site filling efforts. Six different fill sources were utilized in the filling activities with quantities ranging from 200 cubic yards (CYs) to 8,000 CYs including:

- 152 South Broad Street, Ridgewood, NJ;
- Bergen Community College, Paramus, NJ;
- 533 Wyndemere Avenue, Ridgewood, NJ;
- Ridgewood Water DeBoer Street and Route 208 Water Main Installation;
- Water Main Replacement Jefferson, William, and Salem Streets; and
- Ridgewood Water Company Spoil Pile.

The following SAP summarizes proposed investigation activities for the Site and is based on information obtained from the Village of Ridgewood and correspondence from the New Jersey Department of Environmental Protection (NJDEP) dated December 11, 2023 and included as Appendix A. The objective of this investigation is to determine whether contaminated soil has the potential to exist within the limits of the constructed berm and area of the Site believed to have received imported fill material. The findings will provide a soils baseline to assess current environmental conditions and assist in project close-out. The advancement of up to 14 soil borings and samples are proposed within the berm material. All soil borings will be advanced to a depth within the limits of the imported soils (approximately 5 to 10 feet below ground surface [bgs]). All soil samples will be collected for Target Compound List (TCL) semi-volatile organic compounds (SVOCs) and Target Analyte List (TAL) metals analyses with 10 of the borings additionally analyzed for Pesticides and Polychlorinated Biphenyls (PCBs). The advancement of up to five soil borings and samples are proposed within the northwestern portion of the Site. All soil borings will be advanced to a depth within the limits of the imported soils (approximately five feet bgs). One soil sample from each boring will be collected and submitted for TCL/ TAL plus 30 tentatively identified compounds (+30) and Extractable Petroleum Hydrocarbons (EPH) analyses. Samples for hexavalent chromium will be collected as contingent analysis and only analyzed if total chromium is greater than 20 milligrams per kilogram (mg/kg).

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1.0 INTRODUCTION

Matrix New World Engineering, Land Surveying, and Landscape Architecture, P.C. (Matrix) on behalf of the Village of Ridgewood, was contracted to prepare this Sampling and Analysis Plan (SAP) for the property located at 460 West Saddle River Road, Ridgewood, Bergen County, New Jersey (Site). The property consists of Block 4704, Lots 9, 10, 11, and 12. The Site underwent soil importation efforts as part of redevelopment activities to improve the Site with passive and active recreational spaces. The redevelopment activities include the construction of a berm and site filling efforts. Six different fill sources were utilized in the filling activities with quantities ranging from 200 cubic yards (CYs) to 8,000 CYs. The following SAP summarizes proposed investigation activities for the Site and is based on information obtained from the Village of Ridgewood and correspondence from the New Jersey Department of Environmental Protection (NJDEP) dated December 11, 2023 and included as Appendix A.

1.1 Site Description

The Site is located at 460 West Saddle River Road in Ridgewood, Bergen County, New Jersey. The Site consists of Block 4704, Lots 9 (3.76 acres), 10 (0.40 acres), 11 (1.74 acres), and 12 (1.24 acres) and is approximately 7.14 acres (311,018.40 square feet). The Site is developed with one unoccupied single-family residence, detached garage, garden shed, and a historic potable water well that is no longer in operation on Lot 10. The remainder of the site is wooded with deciduous trees and overgrown lawn areas. As part of redevelopment activities, soils were reportedly imported to the Site for the creation of a berm along the western side of Lots 9 through 12 and general site filling. Based on correspondence between the Village of Ridgewood and the NJDEP's Bureau of Solid Waste Compliance & Enforcement (BSWC&E), the source and quality (i.e., alternative fill or clean fill) of the material was brought into question.

The Site is bound by New Jersey State Highway Route 17 to the west, West Saddle River Road to the east, residential properties to the north, and the intersection of New Jersey State Highway Route 17 and West Saddle River Road to the south. The Site is zoned as Single-Family Residence (R-125), according to the 2022 Village of Ridgewood Zoning Map and lies within an area of mixed-use: including office and residential properties. The topography of the Site fluctuates between approximately 107 and 119 feet above mean sea level (AMSL) throughout majority of the Site, however the berm along the western Site boundary begins at 112 feet AMSL and reaches its highest elevation at 119 feet AMSL. A Site Location Plan depicting the Site topography is presented as Figure 1.

1.2 Site Filling Sources

Soils for the redevelopment activities were imported from six different sites throughout the Village of Ridgewood, Paramus, or Glen Rock, New Jersey. The soil was utilized to construct a berm along the western boundary of the Site adjacent to Route 17 or to fill in low-lying areas in the northwestern portion of the Site. A total of approximately 11,020 CYs of soil were imported to the Site. Each donor site provided between 200 and 8,000 CYs of soil. Summaries of the data collected to date from each donor site are provided below:

- 152 South Broad Street, Ridgewood, NJ: Approximately 8,000 CYs of soil were imported to the Site from 152 South Broad Street in Ridgewood, NJ, a site which was redeveloped into an apartment complex. The soil was utilized in construction of the soil berm along the western boundary of the Site. Peak Environmental (Peak) conducted sampling in October 2018 based on the NJDEP's Guidance Document "Fill Material Guidance for SRP Sites" (Fill Guidance), which requires the collection of 21 soil samples for the characterization of 8,000 CYs. Based on historical investigations at the site (Preliminary Assessment [PA], Site Investigation Report [SIR], Remedial Investigation Report [RIR], and Remedial Action Workplan [RAW], Peak opted to complete the sampling utilizing the reduced sampling frequency of 14 soil samples. However, no justification beyond stating that this site had a known history within the SRP was provided to rationalize a reduced sampling frequency. All 14 samples were analyzed for Extractable Petroleum Hydrocarbons (EPH), 10 samples were analyzed for Target Analyte List (TAL) Metals and Polynuclear Aromatic Hydrocarbons (PAHs), 5 samples were analyzed for Target Compound List (TCL) Volatile Organic Compounds (VOCs), and 4 samples were analyzed for the full TCL/TAL plus a library search (+30). The NJDEP's Fill Guidance states that all samples should be analyzed for TCL/TAL+30 and EPH, unless a targeted suite of contaminants can be justified. Based on the lack of justification in the selection of the analyses, the NJDEP was not satisfied with the reduced analysis. Therefore, the NJDEP requires further investigation (i.e., review of previous analytical data and additional soil sampling) to evaluate the suitability of the materials for the Site. The analytical results are included in Appendix B.

- Bergen Community College, Paramus, NJ: Approximately 500 CYs of soil were imported to the Site from Bergen Community College (BCC) in Paramus, NJ. No reasoning was provided for the purpose of the excavation. Soil sampling of the material was completed by ANS Consultants (ANS) in September 2019. One five-point composite sample was collected and analyzed for TCL/TAL, total petroleum hydrocarbons (TPH), pH, hexavalent chromium, and trivalent

chromium. While a composite sample representing the 500 CYs of material is not preferred, the NJDEP stated they would be willing to accept the data depending upon the purpose of the excavation. Based on the reported results, mercury was detected exceeding the NJDEP's May 2021 Migration to Groundwater Soil Remediation Standards (MGWSRS). ANS did not believe the mercury exceedance needed to be addressed based on the assumption that mercury may be found as a background contaminant. While this may be accurate, this policy only applies to scenarios where the subject fill is proposed to remain in place and is not to be moved to another site without evaluating the potential impacts of the fill material. Since the Site was not undergoing remediation under the guidance of a Licensed Site Remediation Professional (LSRP), the exceedances from the BCC fill were not integrated into a remedial process using the "Like on Like" – 75 percentile assessment or by creating a site-specific MGWSRS. ANS did not present any information justifying the import of contaminated fill onto a site that may have been uncontaminated prior to the importation of the BCC fill material. Further no laboratory report or Non-Conformance summary was provided with the data therefore, the integrity of the analytical results cannot be evaluated. According to the Village engineer, the BCC soils were placed in the northwestern portion of the Site, near Block 4704, lot 12. Based on the unknown conditions of the excavation, impacted material, and omission of a laboratory report, the NJDEP was not satisfied with the information provided for this fill source. Therefore, the NJDEP requires further investigation (i.e., additional soil sampling) to evaluate the suitability of the materials for the Site. The analytical results are included in Appendix C.

- 533 Wyndemere Avenue, Ridgewood, NJ: Approximately 320 CYs of soil were imported to the Site from a residential construction project (large addition) at 533 Wyndemere Avenue in Ridgewood, NJ. Soil sampling of the material was completed by ANS in May 2021. One sample (unknown if it was a grab or composite sample) was collected and analyzed for TCL/TAL. No concentrations were detected exceeding the NJDEP Soil Remediation Standards (SRS). However, no laboratory report or Non-Conformance summary was provided with the data therefore, the integrity of the analytical results cannot be evaluated. According to the Village engineer, the 533 Wyndemere Avenue soils were placed in the northwestern portion of the Site, near Block 4704, lot 12. Based on the omission of a laboratory report, the NJDEP was not satisfied with the information provided for this fill source. Therefore, the NJDEP requires further investigation (i.e., additional soil sampling) to evaluate the suitability of the materials for the Site. The analytical results are included in Appendix D.

- Ridgewood Water DeBoer Street and Route 208 Water Main Installation: Approximately 200 CYs of soil were imported to the Site from construction associated with a water main installation on DeBoer Avenue and Route 208 in Glen Rock, NJ. Soil sampling of the material was completed by Aqua Pro-Tech Laboratories (Aqua Pro-Tech) in August 2021. One grab sample was collected and analyzed for VOCs, pesticides, polychlorinated biphenyls (PCBs), and TAL metals. Two compounds, mercury and benzo(a)anthracene were detected exceeding their MGWSRS. In addition, benzo(a)pyrene was detected marginally below the Residential Ingestion Dermal Soil Remediation Standard (RIDSRS) however, many of the SVOCs (including benzo(a)pyrene and benzo(a)anthracene) required dilution therefore, the results are biased low. Since the Site was not undergoing remediation under the guidance of a LSRP, the exceedances from the DeBoer Avenue and Route 208 water main installation fill were not integrated into a remedial process using the "Like on Like" – 75 percentile assessment or by creating a site-specific MGWSRS. Aqua Pro-Tech did not present any information justifying the import of contaminated fill onto a site that may have been uncontaminated prior to the importation of the DeBoer Avenue and Route 208 water main installation fill material. Further no laboratory report or Non-Conformance summary was provided with the data therefore, the integrity of the analytical results cannot be evaluated. According to the Village engineer, the DeBoer Avenue and Route 208 water main installation soils were placed in the northwestern portion of the Site, near Block 4704, lot 12. Based on the impacted material and omission of a laboratory report, the NJDEP was not satisfied with the information provided for this fill source. Therefore, the NJDEP requires further investigation (i.e., additional soil sampling) to evaluate the suitability of the materials for the Site. The analytical results are included in Appendix E.

- Water Main Replacement Jefferson, William, and Salem Streets: Approximately 1,700 CYs of soil were imported to the Site from construction associated with a water main replacement on Jefferson Street, William Street, and Salem Lane in Ridgewood, NJ. Soil sampling of the material was completed by Aqua Pro-Tech in September 2020. Three samples (unknown if they were grab or composite samples) were collected, one from each street, and analyzed for TCL/TAL+30, pH, cyanide, hexavalent chromium, and Redox Potential. No concentrations were detected exceeding the NJDEP Soil Remediation Standards (SRS). However, no laboratory report or Non-Conformance summary was provided with the data therefore, the integrity of the analytical results cannot be evaluated. According to the Village engineer, the 533 Wyndemere Ave. soils were placed in the northwestern portion of the Site, near Block 4704, lot 12. Based on the omission of a laboratory report, the NJDEP was not satisfied with the information provided for this fill source.

Therefore, the NJDEP requires further investigation (i.e., additional soil sampling) to evaluate the suitability of the materials for the Site. The analytical results are included in Appendix F.

- Ridgewood Water Company Spoil Pile: Approximately 300 CYs of soil were imported to the Site from excess soil acquired through water main break repairs in Ridgewood, NJ. Soil sampling of the material was completed by Eurofins in December 2016 and SGS North America (SGS) in January 2021. One grab sample was collected by Eurofins in December 2016 and analyzed for TCL/TAL. Reporting limits for several constituents were identified exceeding the remediation standards along with surrogate recovery issues with several organic compounds and metals. Three grab samples were collected by SGS in January 2021 and analyzed for TCL SVOCs plus 20 tentatively identified compounds (+20) The sample results indicated that benzo(a)anthracene and benzo(a)pyrene were detected exceeding their MGWSRS and RIDSRS, respectively. Since the Site was not undergoing remediation under the guidance of a LSRP, the exceedances from the Ridgewood Water Company Spoil Piles were not integrated into a remedial process using the "Like on Like" – 75 percentile assessment or by creating a site-specific MGWSRS. Eurofins and SGS did not present any information justifying the import of contaminated fill onto a site that may have been uncontaminated prior to the importation of the fill material. According to the Village engineer, the Ridgewood Water Company spoils were placed in the northwestern portion of the Site, near Block 4704, lot 12. Based on the impacted material and the lack of explanation regarding the suitability of the fill for the Site, the NJDEP was not satisfied with the information provided for this fill source. Therefore, the NJDEP requires further investigation (i.e., additional soil sampling) to evaluate the suitability of the materials for the Site. The analytical results are included in Appendix G.

2.0 SAMPLING AND ANALYSIS PLAN

2.1 Scope of Work

The objective of this investigation is to determine whether contaminated soil has the potential to exist within the limits of the constructed berm and area of the Site believed to have received imported fill material. The findings will provide a soils baseline to assess current environmental conditions and assist in project close-out.

This SAP may be revised in the field in the event that potential areas of environmental concern (i.e., staining, discolored soil or other indicators of potential surface or subsurface contamination) are identified during the implementation of field activities. This SAP is intended for the use of Matrix personnel only. Matrix will not be responsible for the implementation of other sampling plans.

All work will be conducted in general accordance with the NJDEP Technical Requirements for Site Remediation (TRSR) N.J.A.C. 7:26E, NJDEP Field Sampling Procedures Manual (FSPM) and applicable NJDEP Guidance documents.

2.2 Sample Collection

Prior to conducting the subsurface investigation, the drilling contractor will be responsible for obtaining proper utility mark-outs and required work permits, and active utility clearance prior to drilling. Soil borings will be advanced using Geoprobe® “direct push” technology or via hand tools. Soil samples will be collected via five-foot dedicated acetate sampling cores. All soil samples will be classified based on their color, structure, and particle size and field-screened using a photo-ionization detector (PID), calibrated using isobutylene span gas with a concentration of 100 parts per million (ppm). Coordinates of each soil boring will be collected by Matrix via a handheld global positioning system (GPS) unit. Soil sampling activities will require 2 days to complete. Matrix will coordinate with the property owner to allow access to the soil boring locations.

All soil sample analyses will be conducted by SGS Laboratories (NJDEP No. 12129) of Dayton, New Jersey under chain-of-custody documentation. The analytical data package for all samples will be a NJDEP Reduced Deliverables Package in Data Known Quality Protocol format. Figure 2 depicts the soil boring locations for the total of 19 proposed soil borings within the Site. The locations of the soil borings may be revised while in the field.

Quality assurance/quality control (QA/QC) samples will also be collected and analyzed in accordance with the NJDEP's FSPM A field blank and/or trip blank will be collected and submitted for each day of sampling.

2.2.1 Soil Sampling – Berm

The advancement of up to 14 soil borings are proposed within the berm material. The borings will be equally distributed across the berm to ensure an accurate cross section of the berm is represented. Boring locations may be slightly adjusted in the field to accommodate recent tree plantings. All soil borings will be advanced to a depth within the limits of the imported soils (approximately 5 to 10 feet below ground surface [bgs]). One soil sample from each boring will be collected for TCL SVOCs and TAL metals analyses with 10 of the borings additionally utilized to investigate Pesticides and PCB analyses. Soil samples, as detailed in Table 1, will be collected from the borings biased towards the discrete 6-inch interval with the greatest potential for contamination based on field observations (i.e., elevated PID readings, staining, odor, evidence of fill materials, etc.). If no evidence of contamination is identified, soil samples will be collected from varying six-inch intervals to ensure the berm is fully represented.

Table 1: Soil Sample Summary Table – Berm

Number of Borings/Samples	Analytical Parameters
10 borings/1 sample	TCL Pesticides and PCBs
14 borings/1 sample	TCL SVOCs and TAL Metals

NOTES:
TCL = Target Compound List
PCBs = Polychlorinated Biphenyls
SVOCs = Semi-volatile Organic Compounds
TAL = Target Analyte List
10 of the soil borings will be co-located to allow for the investigation of multiple analytical parameters.

2.2.2 Soil Sampling – Other Imported Fill Areas

The advancement of up to five soil borings are proposed within the northwestern portion of the Site. The borings will be equally distributed throughout the area where filling took place to ensure an accurate cross section of the imported fill is represented. All soil borings will be advanced to a depth within the limits of the imported soils (approximately five feet bgs). One soil sample from each boring will be collected and submitted for TCL/TAL plus 30 tentatively identified compounds (+30) and EPH analyses. Samples for hexavalent chromium will be collected as contingent analysis and only analyzed if total chromium is greater than 20 milligrams per kilogram (mg/kg). A total of five soil samples, as detailed in Table 2, will be collected from the borings biased towards the discrete 6-inch interval with the greatest potential for contamination based on field observations (i.e., elevated PID readings, staining, odor, evidence of fill

materials, etc.). If no evidence of contamination is identified, soil samples will be collected from varying six-inch intervals to ensure imported fill limits are fully represented.

Table 2: Soil Sample Summary Table – Other Imported Fill Areas

Number of Borings/Samples	Analytical Parameters
5 borings/1 sample	EPH, TCL/TAL+30, Hexavalent Chromium (contingent)

NOTES:
TCL/TAL+30 = Target Compound List/Target Analyte List plus tentatively identified compounds

2.2.3 Waste Handling

Upon completion of each soil boring, drill cuttings will be placed back into the bore hole to the surface and the surface restored to match the surrounding ground material.

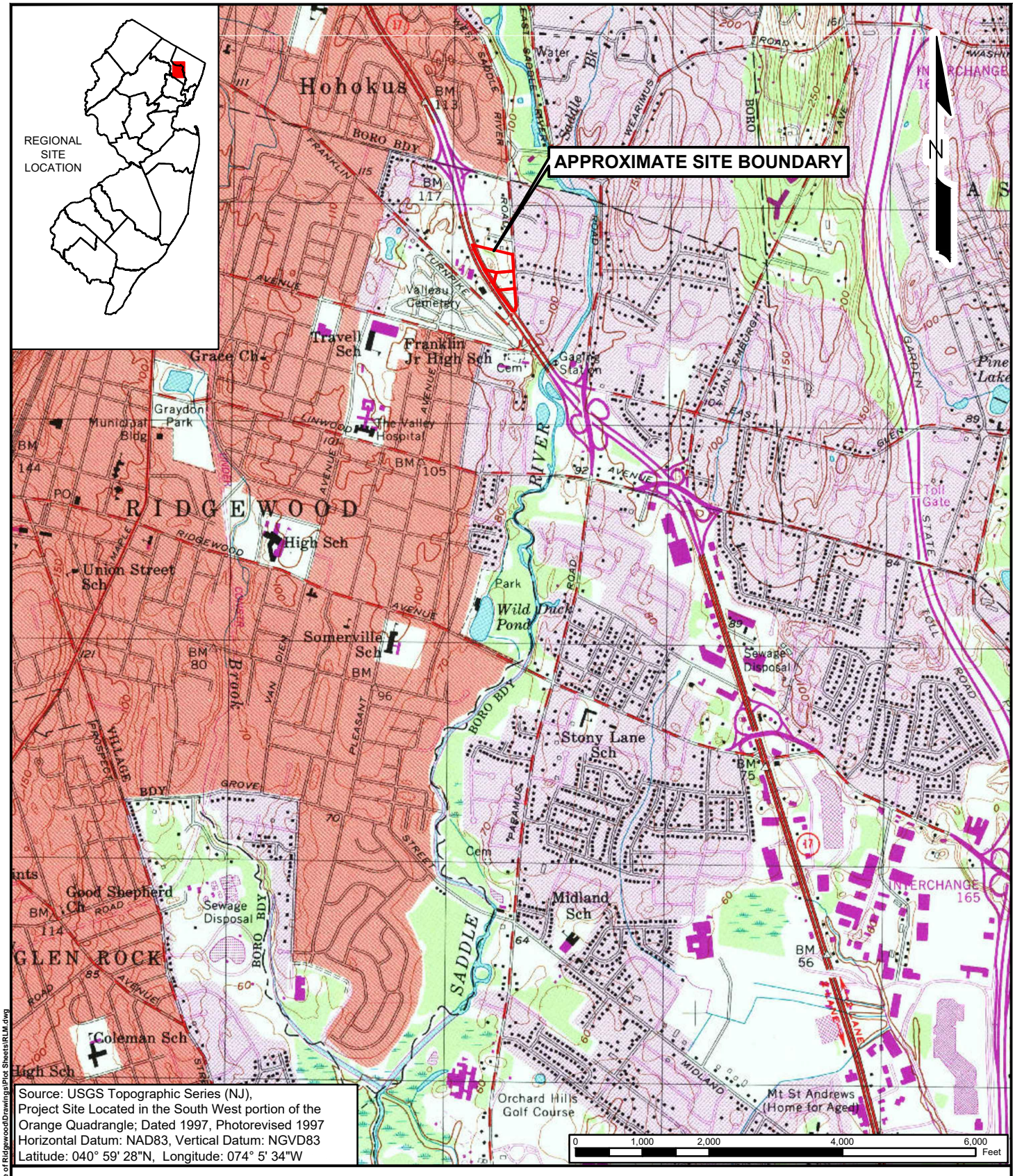
2.4 Reporting

Upon the completion of all soil investigation field activities and receipt of all analytical data, an Environmental Summary Report will be prepared and will include:

- Sample location plan
- Summary of sampling events activities
- Summary of laboratory reported analytical results compared to applicable criteria and standards.
- Soil boring logs
- Laboratory analytical package
- Discussion of any remedial needs

The laboratory reported soil sample analytical results will be compared to NJDEP's Soil Remediation Standards, promulgated at N.J.A.C. 7:26D.

FIGURES



Source: USGS Topographic Series (NJ),
Project Site Located in the South West portion of the Orange Quadrangle; Dated 1997, Photorevised 1997
Horizontal Datum: NAD83, Vertical Datum: NGVD83
Latitude: 040° 59' 28"N, Longitude: 074° 5' 34"W

SITE LOCATION MAP

MATRIX NEW WORLD
Engineering Progress
Matrix New World Engineering, Land Surveying and Landscape Architecture, P.C.
26 Columbia Turnpike
Florham Park, New Jersey 07932
Certified WBE
Tel: 973-240-1800
Fax: 973-240-1818
www.mnwe.com

VILLAGE OF RIDGEWOOD
BLOCK 4704, LOTS 9, 10, 11, & 12
VILLAGE OF RIDGEWOOD
BERGEN COUNTY, NEW JERSEY

SCALE:	PROJECT NO.:	DATE:	FIGURE NO.:
1 : 2,000	23-1429	MARCH 2024	1

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LEGEND

- TCL SVOCs, TAL METALS, PESTICIDES & PCBs
- TCL SVOCs & TAL METALS
- TCL/TAL +30, EPH, HEXAVALENT CHROMIUM (CONTINGENT)

TCL	TARGET COMPOUND LIST
SVOCs	SEMI-VOLATILE ORGANIC COMPOUNDS
TAL	TARGET ANALYTE LIST
PCBs	POLYCHLORINATED BIPHENYLS
TCL/TAL +30	TARGET COMPOUND LIST/TARGET ANALYTE LIST PLUS 30 TENTATIVELY IDENTIFIED COMPOUNDS
EPH	EXTRACTABLE PETROLEUM HYDROCARBONS

NOTE:
DRAWING WAS COMPLETED USING THE "TOPOGRAPHIC SURVEY LOTS 9, 10, 11 & 12 BLOCK 4704 TAX MAP" DRAWING BY DUNN SURVEYING & MAPPING P.A., NOVEMBER 14, 2023 AND PROVIDED TO MATRIX BY THE CLIENT.

NEW JERSEY STATE AMBOY-NEWARK WAY GARDEN STATE PARKWAY ROUTE 17

WEST SADDLE RIVER ROAD

TERHUNE ROAD (50' WIDE)

KENWOOD ROAD (50' WIDE)

KINGSBRIDGE LANE (50' WIDE)

LOT 12 BLOCK 4704 TAX MAP

LOT 10 BLOCK 4704 TAX MAP

LOT 11 BLOCK 4704 TAX MAP

LOT 9 BLOCK 4704 TAX MAP

LOT 8 LANDS N/F GREGORIS

LOT 14 LANDS N/F HARAKIS

LOT 15 LANDS N/F HARCOCK

LOT 13 LANDS N/F DALESIO

296,221.2 SQ. FT.
6.800 ACRES
(EXCLUDING ROADS)

2 ½ STORY BUILDING #460

FORMER LOCATION OF IRON PIPE REMOVED BY ADJOINING PROPERTY OWNER

AREA OF GRANT TO AMERICAN TELEPHONE AND TELEGRAPH COMPANY OF NEW JERSEY FROM DIRECTORS OF WEST SADDLE RIVER ROAD TO BOROUGH OF WEST SADDLE RIVER ROAD (DEED BOOK 1687 PAGE 87)

MAP OF KINGSBRIDGE GRANT FILED IN THE BERGEN COUNTY CLERK'S OFFICE AS MAP NUMBER 1

MAP OF BROOKFIELD FILED IN THE BERGEN COUNTY CLERK'S OFFICE AS MAP NUMBER 2

MAP OF BROOKFIELD FILED IN THE BERGEN COUNTY CLERK'S OFFICE AS MAP NUMBER 3

MONUMENTS SET IN CURB N 709,349.838 E 581,480.276 NAD 83 U.S. SURVEY FEET

SCALE: 1" = 80'

DESIGNED BY: MED	REVIEWED BY: MF	RELEASED BY: MF

DATE

MATRIX NEW WORLD
Engineering Progress
Matrix New World Engineering, Land Surveying and Landscape Architecture, P.C.
26 Columbia Turnpike
Florham Park, New Jersey 07932
Tel: 973-240-1800
Fax: 973-240-1818
www.mnwe.com
NEW JERSEY CERTIFICATE OF AUTHORIZATION No. 24GA27982300

PROPOSED SOIL BORING LOCATIONS

VILLAGE OF RIDGEWOOD
BLOCK 4704, LOTS 9, 10, 11 & 12
WEST SADDLE RIVER ROAD
VILLAGE OF RIDGEWOOD
BERGEN COUNTY, NEW JERSEY

PROJECT NUMBER: 23-1429

SCALE: AS SHOWN

DATE: 3/20/2024

SHEET 2 OF

© MATRIXNEWORLD\F:\2023\23-1429 Village of Ridgewood\Drawings\Plot Sheets\Proposed Soil Boring Locations.dwg

APPENDIX A

NJDEP December 11, 2023 Correspondence

State of New Jersey

PHILIP D. MURPHY
Governor

TAHESHA L. WAY
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Division of Waste & UST Compliance & Enforcement
Bureau of Solid Waste Compliance & Enforcement
9 Ewing Street
P.O. Box 420, Mail-Code 09-01
Trenton, NJ 08625-0420
Tel.: (609) 292-6305 Fax: (609) 292-4539

SHAWN M. LATOURETTE
Commissioner

Sent via email to:
Keith Kazmark: kkazmark@ridgewoodnj.net
Christopher Rutishauser: crutishauser@ridgewoodnj.net

December 11, 2023

CERTIFIED MAIL – RRR
7022 3330 0001 3350 2709

RE: Ridgewood Village Historic Site at 460 West Saddle River Road
Issues with reported data associated with imported fill
EA ID#: U4347

Gentlemen:

The following evaluation of the analytical data reportedly associated with the soils imported to the referenced site reiterates information from Mr. Chris Rutishauser, Ridgewood Village's Director of Public Works/Village Engineer, followed by a response from NJDEP's Bureau of Solid Waste Compliance & Enforcement (BSWC&E). Further appropriate actions necessary to pursue closure of this solid waste case are also presented.

Ridgewood Explanation for South Broad Street Fill Source:
"I visited this site when the offer of the soil became available. I did not observe an[y] indications of contamination in the soils. The development that generated the material was reviewed by the Village's planning board, for which I am the licensed review engineer. The material required and received a Village of Ridgewood major soil moving permit (planning board approves the permit followed by Village Council approval of the permit). Testing was done on the material in 2018 by Peak Environmental. Peak estimated the quantity of soil at 8,000 cubic yards. Peak collected 14 samples for testing under a reduce[d] sample quantity due to justification. Peak did not note any impacts to the soils sampled. The first three pages of their report submitted explains their protocol and observations. We used this soil as the bulk of the material for the berm construction. The berm was constructed by the Village's Streets Division using several of the Village's rubber tire front end loaders."

BSWC&E Response for Ridgewood Dayton, LLC – 152 South Broad Street fill source:
The estimated 8,000 cubic yard soil source was indicated to be from excavations associated with the demolition of a building at a site that underwent remediation. No description of the remediation nor the potential of environmental impacts from the remediated discharge(s) to have impacted the soils taken to 460 Saddle River Road were discussed, yet the sampling and analyses protocol was reduced by relying on such data to reduce the analytical frequencies per cubic yard as compared to the NJDEP Guidance Document: "Fill Material Guidance for SRP Sites". Based on yet to be explained judgements, the analytical parameters were also further reduced. For example, for a volume of 8,000 cubic yards the aforementioned guidance document suggests that 21 samples be collected and analyzed unless information can be used to reduce such frequency to 14 samples to be analyzed. Yet, the consultant secured analyses from only 4 samples for polychlorinated biphenyls (PCBs, a.k.a. "Aroclors") and only 4 samples for pesticides while providing 14 samples for analyses for EPH, PAHs and Metals. While only 5 samples were analyzed for volatile organic compounds (VOC), field screening using a photoionization detector (PID) revealed no responses and therefore the BSWC&E does not disagree with the limitation of the VOC analyses. However, an explanation regarding the use of the reduced sampling frequencies and further reduction of analytes below those noted in NJDEP guidance has not been provided.

The Conformance/Non-Conformance Summary within the laboratory report submitted to the BSWC&E revealed that, while the instrumentation was operating correctly, sample matrix interference was observed which caused the surrogate recoveries of several of the metals analyzed via method 6010D and several of the semi-volatile organic compounds to produce analytical data which may be biased low.

Ridgewood Explanation for Bergen Community College Site fill source:
"Through a contact, Bergen Community reached out to the Village and inquired if we would like some fill soil. I examined the soils at the college. I did not observe any indication of contamination. On September 27, 2019 ANS Consultants collected 5-point grab samples and subjected them to laboratory analysis. Laboratory results indicated the soils were suitable for the intended use at the Schedler site. The Village received approximately 500 cubic yards of material from the college."

BSWC&E Response for Bergen County Community College fill source:
No discussion on the reason for the excavation at this site was provided. The volume of soil represented by the 5-point composite to one sample is reported at 500 cubic yards. Compositing of such sample, although not preferred, may be acceptable, depending upon the reason for the excavation. The cover letter to the tabulated data indicates that the Department (NJDEP) does not require the Mercury found at 0.615 ppm, which is over the Migration to Ground Water Standard of 0.1 ppm as noted in N.J.A.C. 7:26D, to be addressed unless there is cause to believe that its presence is due to a discharge. However, such policy is applicable only for background conditions or historical fill scenarios where the subject fill is proposed to remain in place and does not address the movement of such fill to another site without a requisite evaluation of the potential impacts of such fill material. That is, the property at 460 Saddle River Road was not undergoing a remediation approved by a Licensed Site Remediation Professional (LSRP) retained pursuant to N.J.A.C. 7:26C at the time the fill was imported. As such, fill was not integrated into a remedial process pursuant to the "Like on Like" – 75 percentile assessment as noted in N.J.A.C. 7:26E-5.2 nor was a site-specific Migration to Ground Water pathway soil remediation standard established pursuant to N.J.A.C. 7:26D. Accordingly, no information has been presented to justify bringing in contaminated fill to a site that may have been uncontaminated prior to the importation of the subject fill materials.

The area(s) at the 460 Saddle River Road site where these soils were distributed are currently unknown to the BSWC&E. Further, there was no laboratory report or Non-Conformance Summary submitted with this data, therefore the integrity of the analytical results cannot be evaluated if limited to the information provided.

Ridgewood Explanation for 533 Wyndmere fill source:
"This location was a residential house that was constructing a large addition and reached out to us to see if we were interested in their surplus material. I examined the soil in the field. It was a fine to medium sand, trace silt and would be excellent grading fill for the Schedler project. The site's soil moving permit indicated approximately 280 cubic yards of cut and 40 cubic yards of fill. ANS Consultants collected one sample and subjected it to laboratory analysis on or about May 19, 2021. The results were acceptable for the intended use of the material."

BSWC&E Response for 533 Wyndmere fill source:
One sample from 320 cubic yards of soil and fill excavated from a residential home was analyzed for Target Analyte List and Target Compound List compounds for which the results did not indicate a concern.

The area(s) at the 460 Saddle River Road site where these soils were distributed are currently unknown to the BSWC&E.

There was no laboratory report or Non-Conformance Summary submitted with this data, therefore the integrity of the analytical results cannot be evaluated if limited to the information provided.

Ridgewood Water DeBoer Avenue and Route 208 Water Main Installation:
"Trench spoil from this project was made available. On August 9, 2021 Aqua Pro-Tech Laboratories tested one grab sample. The soil was found to be acceptable for its intended use. The site provided approximately 200 cubic yards of fill. This is the one location I did not personally observe the material at its generating source."

BSWC&E Response for Ridgewood Water DeBoer Ave and Rt. 208 Water Main Installation:
It appears that one sample from a reported 200 cubic yard source was analyzed for volatile organic compounds, metals, PCBs and pesticides. No Chain of Custody was submitted. It is not known when the date of analysis was. There was no Non-Conformance Summary submitted with this data, therefore the integrity of the analytical results cannot be completely evaluated if limited to the information provided.

However, a concern is noted for sample # 1080405-01 as it displayed a benzo[a]pyrene concentration of at least 0.48 parts per million (ppm) while the Residential Ingestion-Dermal pathway soil remediation standard for this compound is 0.51 ppm. Although the reported result is below the Residential Soil Remediation Standard that triggers the definition of solid waste, because this sample was diluted, presumably to rectify some matrix interference, the result is biased low.

This sample also displayed a mercury concentration of 0.105 ppm. N.J.A.C. 7:26D denotes a Migration to Ground Water pathway standard for Mercury of 0.1 ppm.

This sample also displayed a benzo[a]anthracene concentration of at least 2.60 ppm while N.J.A.C. 7:26D denotes a Migration to Ground Water pathway standard for this compound is 0.71 ppm.

Again, without LSRP interaction pursuant to N.J.A.C. 7:26 C, there was no evaluation of the appropriateness of bringing in contaminated fill to the 460 West Saddle River Road site.

The location(s) where this fill was distributed at 460 West Saddle River Road site has not been disclosed to the BSWC&E.

Ridgewood Explanation for Water Main Replacement Jefferson, William and Salem Streets fill source:
"The source of this material was the spoil from a water main replacement project in the following Village streets: Jefferson Street, William Street, and Salem Street. Work was done by a contractor working for Ridgewood Water Company. I observed the trenching work on several occasions. I did not note any contamination concerns. Three samples were collected, one from each street, and tested by Aqua Pro-tech Laboratories on or about September 22, 2020. Trench was approximately 4,100 linear feet, 2.5-feet wide and 4.5-feet deep for a volume of approximately 1,700 cubic yards of soil."

BSWC&E Response for Jefferson, William and Salem Streets fill source:
There was no Non-Conformance Summary submitted with this data, therefore the integrity of the analytical results cannot be completely evaluated if limited to the information provided.

Ridgewood Explanation for the Ridgewood Water Company Spoil Pile:
"The Village's Water Company had excess soil from their water main break repairs. On January 12, 2021 SGS North America collected three grab soil samples for analysis. This testing was a follow up to testing Eurofins had done on December 22, 2016 of a single grab sample of soil. With the test results being acceptable for use, the Village trucked approximately 300 cubic yards of material from the spoil pile to Schedler. I observed this spoil pile before it was trucked and did not note any indications of contamination."

SWC&E Response for the Ridgewood Water Company Spoil Pile:
The 2016 sample results revealed detection limits that were higher than the remediation standards. For example, the sample analyzed for benzo[a]pyrene was diluted ten-fold yielding a detection limit of 0.94 ppm while the Residential Ingestion-Dermal pathway remediation standard for this compound is 0.51 ppm. Further, the laboratory Case Narrative disclosed surrogate recovery issues with several organic compounds and metals. The follow-up analyses reported for the subject materials revealed that benzo[a]anthracene was detected in sample S-15R at 0.75 ppm which is above the Migration to Ground Water Pathway soil remediation standard for this compound which is 0.71 ppm. Further, benzo[a]pyrene in this sample was reported at a concentration of 0.744 ppm while the Residential Ingestion-Dermal Pathway remediation standard for this compound is 0.51 ppm, thus triggering the definition of solid waste. Sample S-18R revealed similar elevated concentrations of benzo[a]anthracene of 0.873 ppm and 0.852 ppm respectively. BSWC&E's interpretation of the Case Narrative/Conformance Summary did not raise concerns regarding the accuracy of the compounds found at concentrations over the noted remediation standards.

No locations where the subject materials were deposited have been provided. Further, given the exceedance of the remediation standards, no explanation regarding the suitability of the subject material for the 460 West Saddle River Road site was provided.

REQUIRED FURTHER ACTIONS TO DOCUMENT FILL QUALITY:

Berm Along Route 17:

With respect to the soils used to construct the berm, the following actions are necessary to further evaluate the suitability of such materials for the site at 460 Saddle River Road:

1. Provide a detailed explanation describing how the previous analytical data collected for the remediation case that was the source of the fill along with the physical distances or barriers between the contaminated materials and the materials brought to the 460 West Saddle River Road site to justify employing a reduction in the analytical frequencies published in NJDEP guidance.

2. Assuming that, in the opinion of the BSWC&E, such explanation is acceptable, provide a Sampling and Analysis Plan (SAP) that incorporates the following scope of work: collect ten discrete grab (non-composited) samples from the soil berm at equally distributed aerial and vertical locations representing a full cross section of the berm. Using an NJDEP certified laboratory who are also certified by the NJDEP for the test methods employed, analyze each of these samples for those Pesticides and PCBs from the Target Compound List and in accordance with the test methods noted therein as defined in N.J.A.C. 7:26E-1.8. Further, for the data already submitted to the BSWC&E, perform a comprehensive review of the Conformance/Non-Conformance Summary to determine which samples displayed biased low results for metals and semi-volatile organic compounds and add such analytes to similarly equally spaced samples such that there will be at least 14 samples representing Target Analyte List metals and Target Compound List semi-volatile organics, each as defined and in accordance with the analytical procedures noted in N.J.A.C. 7:26E-1.8, for which reliable data is generated. Provide a detailed explanation on this review and analyte selection process. For the purposes of compliance with the solid waste issue, it is not necessary to perform analyses for Tentatively Identified Compounds.

   The SAP shall include a scaled site map noting the proposed sampling locations and analytical parameters. The plan should not be implemented until approved in writing by the BSWC&E.

Other Imported Fill Areas of Deposition:

With respect to the soils/fill deposited in other areas of the property at 460 West Saddle River Road, the BSWC&E has observed that such fill contains materials that, at least from a geotechnical consideration, may not be suitable base material for the artificial turf which the BSWC&E understands is being contemplated for this site. As such, should any of the fill deposited outside of the berm be removed from the property, appropriate characterization of same is needed to ensure that it's use, or disposal is consistent with NJDEP regulations. If any of this fill is contemplated to remain in place, without knowing the locations of the deposition of the various sources of the fill material and because the data for at least some of the fill material is suspect, the aforementioned SAP should be expanded to incorporate sampling of the remaining areas of imported fill deposition. Such expanded plan should incorporate a scaled site map depicting a grid pattern denoting where discrete (non-composited) samples will be collected for analyses for Target Analyte List and Target Compound List analytes as defined and in accordance with the analytical methods noted in N.J.A.C. 7:26E -1.8 (minus volatile organic analyses if appropriate soil gas screening confirms such analyses is not necessary). The expanded SAP should not be implemented until approved in writing by the BSWC&E.

Case Management:

In order to close the solid waste issue associated with the imported fill materials, any such fill that exceeds the Residential Ingestion-Dermal/Inhalation soil remediation standards (without performing data averaging) must be removed. Accordingly, following review of the data to be generated from the SAP, the BSWC&E will advise Ridgewood Village of the scope of work needed to incorporate into a Corrective Action Plan (CAP) designed to address any residual solid waste as determined by both the physical and chemical triggers noted in N.J.A.C. 7:26 -1.6(a)6. The CAP should not be conducted until approved in writing by the SWC&E.

Once the BSWC&E is satisfied that appropriate removal of the fill materials that trigger the definition of solid waste at N.J.A.C. 7:26-1.6(a)6 has been achieved, a letter will be issued noting that the subject solid waste issue has been resolved.

Please note that the BSWC&E does not offer opinions on whether or not a site has been remediated or if a site is suitable to allow leaving fill materials in place that do not trigger the definition of solid waste, but have a contaminant within them at a concentration greater than the respective default Migration to Ground Water soil remediation standard at N.J.A.C. 7:26D. Accordingly, if it is desired to pursue further evaluation of the suitability to leave such soils in place, alternative, site specific Migration to Ground Water pathway standards can be generated as afforded by N.J.A.C. 7:26D if approved by a Licensed Site Remediation Professional (LSRP) retained pursuant to the Administrative Requirements for the Remediation of Contaminated Sites as noted in N.J.A.C. 7:26C. Accordingly, Ridgewood Village may want to consider performing additional testing approved by such LSRP to address such pathway during the mobilization addressing the requisite sampling to further evaluate the solid waste issues.

Enforcement:

Please be advised that Ridgewood Village's documented use of contaminated fill at this site is in violation of the Solid Waste Management Act, particularly N.J.A.C. 7:26-2.8(e). As such, the BSWC&E expects full cooperation from Ridgewood Village at this time to facilitate the BSWC&E's discretionary authority to minimize any enforcement actions/penalty assessments. **As such, please provide the requisite Sampling and Analysis Plan within sixty (60) days upon receipt of this correspondence.**

Attached to this letter please find generic guidance from the BSWC&E addressing our expectations associated with data collection. Should you have any questions, please promptly contact me.

Regards,

Tom Farrell, Chief
Bureau of Solid Waste Compliance & Enforcement

c: Dave Ongaro, BSWC&E
Gina Lugo, BSWC&E
Mike Hastry, DW&USTC&E
Kate Marcopul, DEP – Historic Preservation Office
Keona Miller, DEP – Local Government Affairs

State of New Jersey

PHILIP D. MURPHY
Governor

TAHESHA L. WAY
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WASTE & UST COMPLIANCE and ENFORCEMENT
BUREAU OF SOLID WASTE COMPLIANCE AND ENFORCEMENT
9 Ewing Street, Mail Code 09-02
P.O. BOX 420
TRENTON NJ 08625-0420
Tel. (609) 292-6305
Fax. (609) 292-4539

SHAWN M. LATOURETTE
Commissioner

DATA REVIEW DOCUMENTATION FORM

 (last updated October 2023)

The following information should accompany analytical data submitted to the Bureau of Solid Waste Compliance and Enforcement (BSWC&E) for a determination that is limited to whether or not the materials represented by such data trigger the definition of solid waste pursuant to N.J.A.C. 7:26 - 1.6(a)6. BSWC&E's acknowledgement of such data shall not be construed to suggest that the New Jersey Department of Environmental Protection considers that the site represented by this data has been fully remediated in whole or in part. As this form is not designed for any one particular site, not all sections may be applicable.

☐ Current Name and Address of site:

_____

_____

☐ Specific Historical uses of property:

_____

_____

☐ Mapped on NJ GeoWeb as located in an area of Historical Fill? _____

☐ Have the subject materials been in contact with any construction and demolition debris or historical discharge of a hazardous substance or historical fill? _____

SAMPLE COLLECTION INFORMATION:

☐ Was the sampling conducted in conformance with the Technical Requirements for Site Remediation at N.J.A.C. 7:26E and the most recent version of the NJDEP Field Sampling Procedures Manual? _____. If no, please explain:

_____

_____.

☐ Was the sampling conducted to address a known volume of materials? _____ If so, what is the total volume of materials addressed by this project? _____ cubic yards.

☐ If the sampling addressed an area wherein the volume of potentially contaminated materials was not known, how many square feet is such Area of Concern? _____ square feet.

☐ **Only for sites where no VOCs are expected:** Were Target Compound List Volatile Organic Compounds (VOCs) eliminated from the analyses based on the response from a photoionization detector (PID)? _____

- If a PID was used, how, when and by whom was it calibrated (please include the type of calibration gas used)?

_____

_____

- What was the eV value of the bulb used in the PID? _____.
- At what units in parts per million (ppm) of response on the PID was the fill considered to not require analysis for VOCs?_____ .

Describe the process used to screen the materials with the PID. If screening was conducted within in situ materials, please include areal frequency in square feet and depths (from surface grade). If screening was conducted within stockpiled materials, please include the distances within the stockpile and frequency of screening per cubic yards.

_____

_____.

☐ If other information was used to eliminate volatile organics from the testing methods of the subject fill besides PID screening, please note same here:

Please complete the following table:

Analytical Group	**Analytical Frequency per cubic yard of stockpiled materials (if applicable)**	**Analytical Frequency per square foot of in situ materials in Area of Concern (if applicable)**	**Reason for Noted Analytical Frequency**
Target Analyte Metals			
Target Compound List Volatile Organic Compounds			
Target Compound List Semi- Volatile Organic Compounds			
Target Compound List Pesticides			
Target Compound List PCBs			

☐ Has a Sample Location Map been provided noting the sample identification numbers in a manner that one who had not seen the site could readily understand where the samples were collected?

☐ If there was any deviation from the Department's most recent version of the Guidance Documents: *Fill Materials Guidance for SRP Sites, October 2021* or *Understanding DEP's Requirements for Soil and Fill Materials*, please provide your justification for same here:

SAMPLE ANALYSIS INFORMATION:

☐ List the name and the New Jersey Laboratory Certification number(s) for the laboratory(ies) used:

_____.

☐ Were there any analyses conducted for which the laboratory did not have a specific New Jersey certification to perform same (note: In addition to the NJ Laboratory Certification, laboratories are required to hold a certification from NJDEP for each analytical method)?
If yes, please specify which test method and affected analytes was/were not certified by NJDEP: _____.

☐ Has the analyses been performed in accordance with N.J.A.C. 7:26E-2 and accompanied by the applicable Reduced Regulatory Deliverables pursuant to Attachment A-II of N.J.A.C. 7:26E? _____.

☐ Does each laboratory report contain a summary of the samples received noting any deficiencies with, at a minimum: temperature of the samples upon receipt, condition of the sample bottles, appropriate Chain of Custody documentation, compliance with sample holding times? If any such deficiencies were noted, please list them here:

_____

_____.

☐ Was a Conformance/Non-Conformance Summary included for each laboratory report? _____

☐ Did the Conformance/Non-Conformance Summary suggest data that could not be relied upon? _____. If yes, please specify which analytes for which samples were not usable:

_____

_____.

☐ Has any data averaging been employed in an Area of Concern to generate the conclusions drawn? _____If so, specify which Area of Concern employed data averaging and include the computations for same in the report of findings.

☐ Has the data been tabulated with comparison to NJDEP Remediation Standards at N.J.A.C. 7:26D? _____

Per my signature below, I certify that the information provided on this form is true and accurate to the best of my knowledge.

Print name of person completing this form: _____;sign:_____;date:_____

State of New Jersey

PHILIP D. MURPHY
Governor

SHEILA Y. OLIVER
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
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BUREAU OF SOLID WASTE COMPLIANCE AND ENFORCEMENT
9 Ewing Street, Mail Code 09-01
P.O. BOX 420
TRENTON NJ 08625-0420
Tel. (609) 292-6305
Fax. (609) 292-4539

SHAWN M. LATOURRETE
Commissioner

STANDARD SAMPLING and ANALYSES PLAN APPROVAL

Project Name:
NJEMS PI#:
Date of S&AP:

The following document contains standard conditions and limitations that accompany any communication from the Bureau of Solid Waste Compliance and Enforcement (BSWC&E) which indicate approvals of Sampling and Analysis Plans. Unless otherwise appended to or altered by official written correspondence from the BSWC&E, these conditions and limitations shall apply.

1.) This approval is limited to determine whether or not the soil/fill materials being sampled meet the portion of the definition of solid waste that addresses contaminant concentrations as referred to in N.J.A.C. 7:26-1.6(a)6. As such, analytical results from **any one** sample that indicate concentrations of contaminants that are above the Residential Ingestion-Dermal or Residential Inhalation soil remediation standards at N.J.A.C. 7:26 D are indicative of solid waste. While delineation of such contamination is acceptable with a plan approved by BSWC&E, **no compliance averaging** is accepted.

2.) The BSWC&E does not make determinations regarding whether or not soils or materials can be considered as Clean Fill pursuant to N.J.A.C. 7:26E -1.8. As such, upon receipt of acceptable data that indicates contaminant concentrations that are compliant with the definition of solid waste at N.J.A.C. 7:29-1.6(a)6, the BSWC&E will acknowledge same by noting compliance has been achieved with respect to the particular solid waste violation associated with the quality of the soil/fill materials. The BSWC&E does not make determinations regarding whether or not a site has been remediated.

3.) All sampling must be performed in accordance with the latest version of the NJDEP's Field Sampling Procedures Manual and N.J.A.C. 7:26 E – The Technical Requirements for Site Remediation.

4.) All analyses must be performed by a laboratory that has at least the following two certifications:

   a.) Overall Laboratory Certification from the State of New Jersey; and, (b) Certification from the State of New Jersey for the particular test method being employed.

Project Name:
NJEMS PI#:
Date of S&AP:

5). Any proposed analytes shall incorporate the test methods associated with EPA's Contract Laboratory Program (CLP) and shall be those analytes included in the respective Target Analyte List (TAL) or Target Compound List (TCL) of the CLP. For example, any proposal to analyze for "Metals" shall be inclusive of all metals in the TAL. It is not necessary to include Tentatively Identified Compounds (TICs) when analyzing for TCL compounds. BSWC&E does not interpret Extractable Petroleum Hydrocarbon (EPH) data.

6.) The Quality Assurance Plans shall incorporate quality control provisions and report same that are at least as comprehensive as the Reduced Regulatory Deliverables pursuant to Attachment A-II of N.J.A.C. 7:26 E. The locations of the Laboratory Non-Conformance Summary, Sample Receipt Form and Chain of Custody shall be readily identified in the laboratory report.

7.) To expedite the BSWC&E's data review, in addition to the full scale laboratory report, a separate table shall be submitted which compares the data to the Residential Ingestion-Dermal and Residential Inhalation soil remediation standards at N.J.A.C. 7:26D. In order to facilitate the BSWC&E determination on whether or not the site needs to be referred to the Department's Site Remediation Program, the data should also be compared to the default Migration to Ground Water pathway soil remediation standards at N.J.A.C. 7:26D. Any comparison to a site specific Migration to Ground Water pathway soil remediation standard would not be performed by the BSWC&E. Further, if the site is located in a wetlands or other area of ecological significance, the analytical results should also be compared to the Ecological Screening Criteria.

Place an "X" or appropriate number next to the applicable statement(s):

8.) The proposed sampling frequency is: ____ acceptable as proposed; _____ needs to be increased to one sample per ____ cubic yards (for sampling the subject fill) or, one sample per ___ square feet (for post-excavation analyses).

9.) The proposed analytes are: ____ acceptable as proposed; ____ needs to include all of the TAL metals; _____ needs to include all of the TCL semi-volatile organics; ___ needs to include all of the TCL pesticides; ____needs to include all of the TCL PCBs; ___ needs to include all of the TCL VOCs.

10.) The proposed field screening for volatile organic compounds (VOCs): ____ is acceptable as proposed; _____must perform field screening with the stated instrument at intervals of ___ cubic yards or ____ square feet (if post excavation sampling); ____ must provide documentation of proper calibration; ___ if a photoionization detector is to be used, must specify the electron voltage of the bulb used.

Plan Approved By: _____
on _____

APPENDIX B

152 SOUTH BROAD STREET ANALYTICAL DATA

PEAK ENVIRONMENTAL LLC
26 Kennedy Boulevard, Suite A, East Brunswick, NJ 08816
Phone 732-326-1010 ● www.peak-environmental.com

October 18, 2018

Mr. Scott Loventhal
Ridgewood Dayton, LLC
820 Morris Turnpike, Suite 101
Short Hills, NJ 07078

Via Email to scottl@gardenhomes.com

Re: Stockpiled Soil Characterization Results
152 South Broad Street
Ridgewood, New Jersey
Project No. 1594:602

Dear Mr. Loventhal:

The following letter report presents the results of soil characterization sampling and analysis conducted by Peak Environmental LLC (Peak) related to the 152 South Broad Street site (Site) on behalf of Ridgewood Dayton, LLC.

PROJECT BACKGROUND

It is Peak's understanding that, following the completion of the remedial excavation and off-site disposal of the known areas of environmental concern (AOCs), redevelopment related excavations of soils encountered at deeper depths at the Site resulted in the generation of approximately 8,000 cubic yards (cys) of excess soil. Peak understands that the client needs analytical data to provide to prospective recipients of the soil so that it can be used as fill material at an offsite property.

Soil Characterization Sampling

Review of the New Jersey Department of Environmental Protection (NJDEP) Fill Material Guidance Document for 8,000 cubic yards of material calls for the collection of 21 samples by default, or 14 samples using a reduced sampling scheme with justification. As this property is in the NJDEP Site Remediation Program, and a Preliminary Assessment, Site Investigation, Remedial Investigation, and Remedial Actions have already been completed at the Site under the direction and oversight of a Licensed Site Remediation Professional (LSRP), Peak conducted the characterization sampling using the reduced sampling frequency as the history of the property is known.

On October 10, 2018, Peak arrived on site and noted that the 8,000 cys of material was comprised of two separate stockpiles, one at the north side of the property (estimated to be 4,500 cys) and one along the south side of the property (estimated to be 3,500 cys). The stockpiles consisted of soils excavated from each respective general area, and the northern pile included soils excavated from below the former building. Peak conducted the characterization sampling by directing your operator to excavate test pits at representative locations within the soil piles using a track mounted excavator. The test pit locations were offset to split each of the two stockpiles into roughly seven equal sections and were advanced throughout the vertical extent of the piles which extended up to 13' high.

Specifically, a total of seven test pits (identified as NTP-1 through NTP-7) were advanced within the northern soil pile and seven test pits (identified as STP-1 through STP-7) were advanced within the southern soil pile. The soils at each test pit location were screened in the field for Volatile Organic Compounds (VOCs) using a calibrated photoionization detector (PID), and visually inspected for texture and physical evidence of contaminants and/or historic fill. There were no PID responses within any of the test pit locations and no evidence of subsurface extraneous debris and/or solid waste, or historic fill material. No obvious visual or olfactory evidence of contamination was noted. The stockpiled soils were generally homogenous and consisted of brown coarse and medium sand with various amounts of fine gravel.

As there were no indications of impacts noted, the sample locations were selected randomly. As the Site was formerly used as an automotive dealership and the remediated AOCs included historic fill, the lab analysis included: Extractable Petroleum Hydrocarbons (EPH) on all 14 samples; TAL Metals and Polynuclear Aromatic Hydrocarbons (PAHs) on ten samples; Volatile Organic Compounds (VOCs) on five samples; and the full Target Compound List/Target Analyte List (TCL/TAL+30) analysis on four samples. The samples collected are summarized in the following table:

Field ID	Location	Sample Depth (ft. from top of pile)	Analytical Parameters
NTP-1A	Northern Soil Pile	1.5-2	EPH Cat-2, TCL/TAL+30
NTP-2A	Northern Soil Pile	0.5-1	EPH Cat-2, PAHs, Metals, VOCs
NTP-2B	Northern Soil Pile	4.5-5	EPH Cat-2, PAHs, Metals
NTP-3B	Northern Soil Pile	4-4.5	EPH Cat-2, PAHs, Metals
NTP-4B	Northern Soil Pile	4.5-5	EPH Cat-2, PAHs, Metals
NTP-6	Northern Soil Pile	4-4.5	EPH Cat-2, TCL/TAL+30
NTP-7	Northern Soil Pile	0-0.5	EPH Cat-2, PAHs, Metals, VOCs
STP-1B	Southern Soil Pile	3.5-4	EPH Cat-2, PAHs, Metals, VOCs
STP-2B	Southern Soil Pile	3.5-4	EPH Cat-2, PAHs, Metals
STP-3B	Southern Soil Pile	4-4.5	EPH Cat-2, PAHs, Metals
STP-4A	Southern Soil Pile	4-4.5	EPH Cat-2, PAHs, Metals, VOCs
STP-4B	Southern Soil Pile	1.5-2	EPH Cat-2, TCL/TAL+30
STP-5	Southern Soil Pile	3-3.5	EPH Cat-2, PAHs, Metals
STP-7	Southern Soil Pile	2-2.5	EPH Cat-2, TCL/TAL+30

Results and Conclusions

The results of analysis, as presented on Tables 1, 2, and 3, did not indicate the presence of any target compounds above an applicable NJDEP Soil Remediation Standard. Exceedances of the NJDEP Default Impact to Groundwater Soil Screening Levels (IGWSSLs) were identified for Aluminum and Manganese; however, based on the NJDEP Guidance Document Frequently Asked Questions for the Impact to Ground Water Pathway in Soil Remediation Standards Version 1.0, 1/27/2011 (see below), no further action is necessary for these naturally occurring earth metals. The complete NJ Reduced Lab Report is included as **Attachment I**.

> *"Soil standards, by law, must be based on health considerations. The health based GWQS are used as the endpoint from which to back-calculate the IGWSRS. The GWQS Aluminum, Manganese, Silver and Zinc are secondary, that is they are not based on health considerations, but primarily on aesthetic considerations such as taste, odor and appearance. Additionally, these elements may be found as background contaminants. Therefore, the Department has decided that the IGW pathway does not need to be addressed for these contaminants unless there is cause to believe that their presence is due to a site discharge."*

Based on our field observations and the results of analysis, the soil piles defined in this report meet the NJDEP Soil Remediation Standards and are suitable for use as clean fill. They have been shown to be uncontaminated pursuant to any applicable remediation standard and are free of contamination due to extraneous debris or solid waste. This report may be referenced as documentation of the quality of the fill. We recommend that when transporting this material from the site to its final destination, that bills of lading are used (and retained) to document the transfer of this soil to its final destination.

We appreciate the opportunity to provide you with professional services, and trust the foregoing information is suitable to meet your needs. We remain available to discuss any aspect of this project.

Sincerely,
Peak Environmental LLC

Robert M. Edgar, Partner

Joseph Romeo
Senior Project Manager

enc: Tables 1, 2, and 3
Attachment I - Laboratory Reduced Data Deliverables

Table 1. Soil Analytical Data Summary
Volatile Organic Compounds

Area of Concern					8100452-01				8100452-02				8100452-05				8100452-06				8100452-07				8100452-08				8100452-11			
Sample Identifier					NTP-1A				NTP-2A				NTP-4B				NTP-6				NTP-7				STP-1B				STP-4A			
Laboratory Identifier																																
Sample Date	CAS Number	NJDEP Residential Direct Contact SRS[1]	NJDEP Nonresidential Direct Contact SRS[2]	NJDEP Default Impact to Ground Water SSL[3]	10/10/2018				10/10/2018				10/10/2018				10/10/2018				10/10/2018				10/10/2018				10/10/2018			
Volatile Organics - GC/MS (mg/kg)					Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
1,1,1-Trichloroethane	71-55-6	160,000	NS	0.3	0.000178	U	0.000178	0.001220	0.000128	U	0.000128	0.000879	0.000139	U	0.000139	0.000954	0.000166	U	0.000166	0.001140	0.000155	U	0.000155	0.001060	0.000397	U	0.000397	0.002720	0.000109	U	0.000109	0.000746
1,1,2,2-Tetrachloroethane	79-34-5	1	3	0.007	0.000169	U	0.000169	0.001220	0.000121	U	0.000121	0.000879	0.000132	U	0.000132	0.000954	0.000157	U	0.000157	0.001140	0.000147	U	0.000147	0.001060	0.000376	U	0.000376	0.002720	0.000103	U	0.000103	0.000746
1,1,2-Trichloro-1,2,2 Trifluoroethane	76-13-1	NS	NS	NS	0.000523	U	0.000523	0.001220	0.000376	U	0.000376	0.000879	0.000408	U	0.000408	0.000954	0.000488	U	0.000488	0.001140	0.000455	U	0.000455	0.001060	0.001170	U	0.001170	0.002720	0.000319	U	0.000319	0.000746
1,1,2-Trichloroethane	79-00-5	2	6	0.02	0.000206	U	0.000206	0.001220	0.000148	U	0.000148	0.000879	0.000161	U	0.000161	0.000954	0.000192	U	0.000192	0.001140	0.000179	U	0.000179	0.001060	0.000459	U	0.000459	0.002720	0.000126	U	0.000126	0.000746
1,1-Dichloroethane	75-34-3	8	24	0.2	0.000178	U	0.000178	0.001220	0.000128	U	0.000128	0.000879	0.000139	U	0.000139	0.000954	0.000166	U	0.000166	0.001140	0.000155	U	0.000155	0.001060	0.000397	U	0.000397	0.002720	0.000109	U	0.000109	0.000746
1,1-Dichloroethene	75-35-4	11	150	0.008	0.000226	U	0.000226	0.001220	0.000163	U	0.000163	0.000879	0.000176	U	0.000176	0.000954	0.000211	U	0.000211	0.001140	0.000197	U	0.000197	0.001060	0.000504	U	0.000504	0.002720	0.000138	U	0.000138	0.000746
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	0.000264	U	0.000264	0.001220	0.000190	U	0.000190	0.000879	0.000206	U	0.000206	0.000954	0.000246	U	0.000246	0.001140	0.000230	U	0.000230	0.001060	0.000588	U	0.000588	0.002720	0.000161	U	0.000161	0.000746
1,2,4-Trichlorobenzene	120-82-1	73	820	0.7	0.000326	U	0.000326	0.001220	0.000234	U	0.000234	0.000879	0.000254	U	0.000254	0.000954	0.000304	U	0.000304	0.001140	0.000283	U	0.000283	0.001060	0.000726	U	0.000726	0.002720	0.000199	U	0.000199	0.000746
1,2,4-Trimethylbenzene	95-63-6	NS	NS	NS	0.000169	U	0.000169	0.001220	0.000121	U	0.000121	0.000879	0.000132	U	0.000132	0.000954	0.000157	U	0.000157	0.001140	0.000147	U	0.000147	0.001060	0.000376	U	0.000376	0.002720	0.000103	U	0.000103	0.000746
1,2-Dibromo-3-chloropropane	96-12-8	0.08	0.20	0.005	0.000298	U	0.000298	0.001220	0.000214	U	0.000214	0.000879	0.000233	U	0.000233	0.000954	0.000278	U	0.000278	0.001140	0.000259	U	0.000259	0.001060	0.000664	U	0.000664	0.002720	0.000182	U	0.000182	0.000746
1,2-Dibromoethane	106-93-4	0.008	0.04	0.005	0.000154	U	0.000154	0.001220	0.000111	U	0.000111	0.000879	0.000120	U	0.000120	0.000954	0.000144	U	0.000144	0.001140	0.000134	U	0.000134	0.001060	0.000343	U	0.000343	0.002720	0.000094	U	0.000094	0.000746
1,2-Dichlorobenzene	95-50-1	5,300	59,000	17	0.000216	U	0.000216	0.001220	0.000155	U	0.000155	0.000879	0.000168	U	0.000168	0.000954	0.000201	U	0.000201	0.001140	0.000188	U	0.000188	0.001060	0.000481	U	0.000481	0.002720	0.000132	U	0.000132	0.000746
1,2-Dichloroethane	107-06-2	0.9	3	0.005	0.000172	U	0.000172	0.001220	0.000124	U	0.000124	0.000879	0.000134	U	0.000134	0.000954	0.000161	U	0.000161	0.001140	0.000150	U	0.000150	0.001060	0.000384	U	0.000384	0.002720	0.000105	U	0.000105	0.000746
1,2-Dichloropropane	78-87-5	2	5	0.005	0.000200	U	0.000200	0.001220	0.000144	U	0.000144	0.000879	0.000156	U	0.000156	0.000954	0.000187	U	0.000187	0.001140	0.000174	U	0.000174	0.001060	0.000446	U	0.000446	0.002720	0.000122	U	0.000122	0.000746
1,3-Dichlorobenzene	541-73-1	5,300	59,000	19	0.000090	U	0.000090	0.001220	0.000065	U	0.000065	0.000879	0.000070	U	0.000070	0.000954	0.000084	U	0.000084	0.001140	0.000078	U	0.000078	0.001060	0.000200	U	0.000200	0.002720	0.000055	U	0.000055	0.000746
1,4-Dichlorobenzene	106-46-7	5	13	2	0.000176	U	0.000176	0.001220	0.000127	U	0.000127	0.000879	0.000137	U	0.000137	0.000954	0.000164	U	0.000164	0.001140	0.000153	U	0.000153	0.001060	0.000392	U	0.000392	0.002720	0.000107	U	0.000107	0.000746
2-Butanone	78-93-3	3,100	44,000	0.9	0.000199	U	0.000199	0.003060	0.000143	U	0.000143	0.002200	0.000155	U	0.000155	0.002380	0.000186	U	0.000186	0.002850	0.000173	U	0.000173	0.002660	0.000444	U	0.000444	0.006810	0.000122	U	0.000122	0.001860
2-Hexanone	591-78-6	NS	NS	NS	0.000114	U	0.000114	0.001220	0.000082	U	0.000082	0.000879	0.000089	U	0.000089	0.000954	0.000107	U	0.000107	0.001140	0.000099	U	0.000099	0.001060	0.000255	U	0.000255	0.002720	0.000070	U	0.000070	0.000746
4-Methyl-2-pentanone	108-10-1	NS	NS	NS	0.000153	U	0.000153	0.001220	0.000110	U	0.000110	0.000879	0.000119	U	0.000119	0.000954	0.000143	U	0.000143	0.001140	0.000133	U	0.000133	0.001060	0.000340	U	0.000340	0.002720	0.000093	U	0.000093	0.000746
Acetone	67-64-1	70,000	NS	19	0.000370	U	0.000370	0.003060	0.000266	U	0.000266	0.002200	0.000289	U	0.000289	0.002380	0.000345	U	0.000345	0.002850	0.000322	U	0.000322	0.002660	0.000825	U	0.000825	0.006810	0.000226	U	0.000226	0.001860
Benzene	71-43-2	2	5	0.005	0.000111	U	0.000111	0.001220	0.000080	U	0.000080	0.000879	0.000087	U	0.000087	0.000954	0.000104	U	0.000104	0.001140	0.000097	U	0.000097	0.001060	0.000248	U	0.000248	0.002720	0.000068	U	0.000068	0.000746
Bromochloromethane	74-97-5	NS	NS	NS	0.000226	U	0.000226	0.001220	0.000162	U	0.000162	0.000879	0.000176	U	0.000176	0.000954	0.000210	U	0.000210	0.001140	0.000196	U	0.000196	0.001060	0.000502	U	0.000502	0.002720	0.000138	U	0.000138	0.000746
Bromodichloromethane	75-27-4	1	3	0.005	0.000153	U	0.000153	0.001220	0.000110	U	0.000110	0.000879	0.000120	U	0.000120	0.000954	0.000143	U	0.000143	0.001140	0.000133	U	0.000133	0.001060	0.000342	U	0.000342	0.002720	0.000094	U	0.000094	0.000746
Bromoform	75-25-2	81	280	0.03	0.000215	U	0.000215	0.001220	0.000154	U	0.000154	0.000879	0.000167	U	0.000167	0.000954	0.000200	U	0.000200	0.001140	0.000187	U	0.000187	0.001060	0.000478	U	0.000478	0.002720	0.000131	U	0.000131	0.000746
Bromomethane	74-83-9	25	59	0.04	0.000353	U	0.000353	0.001220	0.000253	U	0.000253	0.000879	0.000275	U	0.000275	0.000954	0.000329	U	0.000329	0.001140	0.000307	U	0.000307	0.001060	0.000785	U	0.000785	0.002720	0.000215	U	0.000215	0.000746
Carbon disulfide	75-15-0	7,800	110,000	6	0.000175	U	0.000175	0.001220	0.000126	U	0.000126	0.000879	0.000137	U	0.000137	0.000954	0.000164	U	0.000164	0.001140	0.000153	U	0.000153	0.001060	0.000391	U	0.000391	0.002720	0.000107	U	0.000107	0.000746
Carbon Tetrachloride	56-23-5	2	4	0.005	0.000184	U	0.000184	0.001220	0.000132	U	0.000132	0.000879	0.000144	U	0.000144	0.000954	0.000172	U	0.000172	0.001140	0.000160	U	0.000160	0.001060	0.000410	U	0.000410	0.002720	0.000112	U	0.000112	0.000746
Chlorobenzene	108-90-7	510	7,400	0.6	0.000177	U	0.000177	0.001220	0.000127	U	0.000127	0.000879	0.000138	U	0.000138	0.000954	0.000165	U	0.000165	0.001140	0.000154	U	0.000154	0.001060	0.000395	U	0.000395	0.002720	0.000108	U	0.000108	0.000746
Chlorodibromomethane	124-48-1	3	8	0.005	0.000150	U	0.000150	0.001220	0.000108	U	0.000108	0.000879	0.000117	U	0.000117	0.000954	0.000140	U	0.000140	0.001140	0.000131	U	0.000131	0.001060	0.000335	U	0.000335	0.002720	0.000092	U	0.000092	0.000746
Chloroethane	75-00-3	220	1,100	NS	0.000208	U	0.000208	0.001220	0.000150	U	0.000150	0.000879	0.000163	U	0.000163	0.000954	0.000194	U	0.000194	0.001140	0.000181	U	0.000181	0.001060	0.000464	U	0.000464	0.002720	0.000127	U	0.000127	0.000746
Chloroform	67-66-3	0.6	2	0.4	0.000205	U	0.000205	0.001220	0.000148	U	0.000148	0.000879	0.000160	U	0.000160	0.000954	0.000192	U	0.000192	0.001140	0.000179	U	0.000179	0.001060	0.000457	U	0.000457	0.002720	0.000125	U	0.000125	0.000746
Chloromethane	74-87-3	4	12	NS	0.000471	U	0.000471	0.001220	0.000338	U	0.000338	0.000879	0.000367	U	0.000367	0.000954	0.000439	U	0.000439	0.001140	0.000409	U	0.000409	0.001060	0.001050	U	0.001050	0.002720	0.000287	U	0.000287	0.000746
cis-1,2-Dichloroethene	156-59-2	230	560	0.3	0.000059	U	0.000059	0.001220	0.000043	U	0.000043	0.000879	0.000046	U	0.000046	0.000954	0.000055	U	0.000055	0.001140	0.000051	U	0.000051	0.001060	0.000132	U	0.000132	0.002720	0.000036	U	0.000036	0.000746
cis-1,3-Dichloropropene	10061-01-5	2	7	0.005	0.000155	U	0.000155	0.001220	0.000111	U	0.000111	0.000879	0.000121	U	0.000121	0.000954	0.000144	U	0.000144	0.001140	0.000134	U	0.000134	0.001060	0.000344	U	0.000344	0.002720	0.000094	U	0.000094	0.000746
Cyclohexane	110-82-7	NS	NS	NS	0.000271	U	0.000271	0.001220	0.000195	U	0.000195	0.000879	0.000211	U	0.000211	0.000954	0.000253	U	0.000253	0.001140	0.000235	U	0.000235	0.001060	0.000603	U	0.000603	0.002720	0.000165	U	0.000165	0.000746
Dichlorodifluoromethane	75-71-8	490	230,000	39	0.000413	U	0.000413	0.001220	0.000297	U	0.000297	0.000879	0.000322	U	0.000322	0.000954	0.000385	U	0.000385	0.001140	0.000359	U	0.000359	0.001060	0.000919	U	0.000919	0.002720	0.000252	U	0.000252	0.000746
EthylBenzene	100-41-4	7,800	110,000	13	0.000166	U	0.000166	0.001220	0.000119	U	0.000119	0.000879	0.000129	U	0.000129	0.000954	0.000154	U	0.000154	0.001140	0.000144	U	0.000144	0.001060	0.000369	U	0.000369	0.002720	0.000101	U	0.000101	0.000746
Isopropylbenzene	98-82-8	NS	NS	NS	0.000192	U	0.000192	0.001220	0.000138	U	0.000138	0.000879	0.000150	U	0.000150	0.000954	0.000179	U	0.000179	0.001140	0.000167	U	0.000167	0.001060	0.000427	U	0.000427	0.002720	0.000117	U	0.000117	0.000746
m+p-Xylenes	179601-23-1	12,000	170,000	19	0.000309	U	0.000309	0.002440	0.000222	U	0.000222	0.001760	0.000241	U	0.000241	0.001910	0.000288	U	0.000288	0.002280	0.000268	U	0.000268	0.002130	0.000687	U	0.000687	0.005440	0.000188	U	0.000188	0.001490
Methyl Acetate	79-20-9	78,000	NS	22	0.000162	U	0.000162	0.001220	0.000116	U	0.000116	0.000879	0.000126	U	0.000126	0.000954	0.000151	U	0.000151	0.001140	0.000141	U	0.000141	0.001060	0.000361	U	0.000361	0.002720	0.000099	U	0.000099	0.000746
Methyl tert-Butyl Ether	1634-04-4	110	320	0.2	0.000207	U	0.000207	0.001220	0.000148	U	0.000148	0.000879	0.000161	U	0.000161	0.000954	0.000193	U	0.000193	0.001140	0.000180	U	0.000180	0.001060	0.000460	U	0.000460	0.002720	0.000126	U	0.000126	0.000746
Methylcyclohexane	108-87-2	NS	NS	NS	0.000197	U	0.000197	0.001220	0.000141	U	0.000141	0.000879	0.000154	U	0.000154	0.000954	0.000184	U	0.000184	0.001140	0.000171	U	0.000171	0.001060	0.000438	U	0.000438	0.002720	0.000120	U	0.000120	0.000746
Methylene Chloride	75-09-2	46	230	0.01	0.000367	U	0.000367	0.001220	0.000264	U	0.000264	0.000879	0.000287	U	0.000287	0.000954	0.000343	U	0.000343	0.001140	0.000319	U	0.000319	0.001060	0.000818	U	0.000818	0.002720	0.000224	U	0.000224	0.000746
o-Xylene	95-47-6	12,000	170,000	19	0.000157	U	0.000157	0.001220	0.000113	U	0.000113	0.000879	0.000123	U	0.000123	0.000954	0.000147	U	0.000147	0.001140	0.000137	U	0.000137	0.001060	0.000350	U	0.000350	0.002720	0.000096	U	0.000096	0.000746
Styrene	100-42-5	90	260	3	0.000175	U	0.000175	0.001220	0.000126	U	0.000126	0.000879	0.000136	U	0.000136	0.000954	0.000163	U	0.000163	0.001140	0.000152	U	0.000152	0.001060	0.000389	U	0.000389	0.002720	0.000107	U	0.000107	0.000746
tert-Butyl alcohol	75-65-0	1,400	11,000	0.3	0.002570	U	0.002570	0.012200	0.001840	U	0.001840	0.008790	0.002000	U	0.002000	0.009540	0.002390	U	0.002390	0.011400	0.002230	U	0.002230	0.010600	0.005720	U	0.005720	0.027200	0.001570	U	0.001570	0.007460
Tetrachloroethene	127-18-4	43	1,500	0.005	0.00329		0.000121	0.001220	0.00240		0.000087	0.000879	0.000094	U	0.000094	0.000954	0.000113	U	0.000113	0.001140	0.000105	U	0.000105	0.001060	0.000270	U	0.000270	0.002720	0.000074	U	0.000074	0.000746
Toluene	108-88-3	6,300	91,000	7	0.000098	U	0.000098	0.001220	0.000071	U	0.000071	0.000879	0.000077	U	0.000077	0.000954	0.000092	U	0.000092	0.001140	0.000086	U	0.000086	0.001060	0.000219	U	0.000219	0.002720	0.000060	U	0.000060	0.000746
Total Xylenes	1330-20-7	12,000	170,000	19	0.000157	U	0.000157	0.001220	0.000113	U	0.000113	0.000879	0.000123	U	0.000123	0.000954	0.000147	U	0.000147	0.001140	0.000137	U	0.000137	0.001060	0.000350	U	0.000350	0.002720	0.000096	U	0.000096	0.000746
trans-1,2-Dichloroethene	156-60-5	300	720	0.6	0.000166	U	0.000166	0.001220	0.000119	U	0.000119	0.000879	0.000129	U	0.000129	0.000954	0.000154	U	0.000154	0.001140	0.000144	U	0.000144	0.001060	0.000369	U	0.000369	0.002720	0.000101	U	0.000101	0.000746
trans-1,3-Dichloropropene	10061-02-6	2	7	0.005	0.000233	U	0.000233	0.001220	0.000168	U	0.000168	0.000879	0.000182	U	0.000182	0.000954	0.000218	U	0.000218	0.001140	0.000203	U	0.000203	0.001060	0.000520	U	0.000520	0.002720	0.000142	U	0.000142	0.000746
Trichloroethene	79-01-6	3	10	0.01	0.000180	U	0.000180	0.001220	0.000129	U	0.000129	0.000879	0.000140	U	0.000140	0.000954	0.000168	U	0.000168	0.001140	0.000156	U	0.000156	0.001060	0.000400	U	0.000400	0.002720	0.000110	U	0.000110	0.000746
Trichlorofluoromethane	75-69-4	23,000	340,000	34	0.000141	U	0.000141	0.001220	0.000101	U	0.000101	0.000879	0.000110	U	0.000110	0.000954	0.000131	U	0.000131	0.001140	0.000122	U	0.000122	0.001060	0.000313	U	0.000313	0.002720	0.000086	U	0.000086	0.000746
Vinyl chloride	75-01-4	0.7	2	0.005	0.000232	U	0.000232	0.001220	0.000167	U	0.000167	0.000879	0.000181	U	0.000181	0.000954	0.000217	U	0.000217	0.001140	0.000202	U	0.000202	0.001060	0.000517	U	0.000517	0.002720	0.000142	U	0.000142	0.000746
Tentatively Identified Compounds		NS	NS	NS	0	J			0	J			0	J			0	J			0	J			0	J			0	J		

Table 1. Soil Analytical Data Summary
Volatile Organic Compounds

Area of Concern **Sample Identifier** **Laboratory Identifier** **Sample Date**	CAS Number	NJDEP Residential Direct Contact SRS[1]	NJDEP Nonresidential Direct Contact SRS[2]	NJDEP Default Impact to Ground Water SSL[3]	8100452-12 STP-4B 10/10/2018				8100452-14 STP-7 10/10/2018			
Volatile Organics - GC/MS (mg/kg)					Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
1,1,1-Trichloroethane	71-55-6	160,000	NS	0.3	0.000129	U	0.000129	0.000887	0.000133	U	0.000133	0.000912
1,1,2,2-Tetrachloroethane	79-34-5	1	3	0.007	0.000122	U	0.000122	0.000887	0.000126	U	0.000126	0.000912
1,1,2-Trichloro-1,2,2 Trifluoroethane	76-13-1	NS	NS	NS	0.000379	U	0.000379	0.000887	0.000390	U	0.000390	0.000912
1,1,2-Trichloroethane	79-00-5	2	6	0.02	0.000149	U	0.000149	0.000887	0.000154	U	0.000154	0.000912
1,1-Dichloroethane	75-34-3	8	24	0.2	0.000129	U	0.000129	0.000887	0.000133	U	0.000133	0.000912
1,1-Dichloroethene	75-35-4	11	150	0.008	0.000164	U	0.000164	0.000887	0.000169	U	0.000169	0.000912
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	0.000192	U	0.000192	0.000887	0.000197	U	0.000197	0.000912
1,2,4-Trichlorobenzene	120-82-1	73	820	0.7	0.000236	U	0.000236	0.000887	0.000243	U	0.000243	0.000912
1,2,4-Trimethylbenzene	95-63-6	NS	NS	NS	0.000122	U	0.000122	0.000887	0.000126	U	0.000126	0.000912
1,2-Dibromo-3-chloropropane	96-12-8	0.08	0.20	0.005	0.000216	U	0.000216	0.000887	0.000222	U	0.000222	0.000912
1,2-Dibromoethane	106-93-4	0.008	0.04	0.005	0.000112	U	0.000112	0.000887	0.000115	U	0.000115	0.000912
1,2-Dichlorobenzene	95-50-1	5,300	59,000	17	0.000156	U	0.000156	0.000887	0.000161	U	0.000161	0.000912
1,2-Dichloroethane	107-06-2	0.9	3	0.005	0.000125	U	0.000125	0.000887	0.000129	U	0.000129	0.000912
1,2-Dichloropropane	78-87-5	2	5	0.005	0.000145	U	0.000145	0.000887	0.000150	U	0.000150	0.000912
1,3-Dichlorobenzene	541-73-1	5,300	59,000	19	0.000065	U	0.000065	0.000887	0.000067	U	0.000067	0.000912
1,4-Dichlorobenzene	106-46-7	5	13	2	0.000128	U	0.000128	0.000887	0.000131	U	0.000131	0.000912
2-Butanone	78-93-3	3,100	44,000	0.9	0.000145	U	0.000145	0.002220	0.000149	U	0.000149	0.002280
2-Hexanone	591-78-6	NS	NS	NS	0.000083	U	0.000083	0.000887	0.000085	U	0.000085	0.000912
4-Methyl-2-pentanone	108-10-1	NS	NS	NS	0.000111	U	0.000111	0.000887	0.000114	U	0.000114	0.000912
Acetone	67-64-1	70,000	NS	19	0.000269	U	0.000269	0.002220	0.000276	U	0.000276	0.002280
Benzene	71-43-2	2	5	0.005	0.000081	U	0.000081	0.000887	0.000083	U	0.000083	0.000912
Bromochloromethane	74-97-5	NS	NS	NS	0.000164	U	0.000164	0.000887	0.000168	U	0.000168	0.000912
Bromodichloromethane	75-27-4	1	3	0.005	0.000111	U	0.000111	0.000887	0.000114	U	0.000114	0.000912
Bromoform	75-25-2	81	280	0.03	0.000156	U	0.000156	0.000887	0.000160	U	0.000160	0.000912
Bromomethane	74-83-9	25	59	0.04	0.000256	U	0.000256	0.000887	0.000263	U	0.000263	0.000912
Carbon disulfide	75-15-0	7,800	110,000	6	0.000127	U	0.000127	0.000887	0.000131	U	0.000131	0.000912
Carbon Tetrachloride	56-23-5	2	4	0.005	0.000133	U	0.000133	0.000887	0.000137	U	0.000137	0.000912
Chlorobenzene	108-90-7	510	7,400	0.6	0.000129	U	0.000129	0.000887	0.000132	U	0.000132	0.000912
Chlorodibromomethane	124-48-1	3	8	0.005	0.000109	U	0.000109	0.000887	0.000112	U	0.000112	0.000912
Chloroethane	75-00-3	220	1,100	NS	0.000151	U	0.000151	0.000887	0.000155	U	0.000155	0.000912
Chloroform	67-66-3	0.6	2	0.4	0.000149	U	0.000149	0.000887	0.000153	U	0.000153	0.000912
Chloromethane	74-87-3	4	12	NS	0.000341	U	0.000341	0.000887	0.000351	U	0.000351	0.000912
cis-1,2-Dichloroethene	156-59-2	230	560	0.3	0.000043	U	0.000043	0.000887	0.000044	U	0.000044	0.000912
cis-1,3-Dichloropropene	10061-01-5	2	7	0.005	0.000112	U	0.000112	0.000887	0.000115	U	0.000115	0.000912
Cyclohexane	110-82-7	NS	NS	NS	0.000196	U	0.000196	0.000887	0.000202	U	0.000202	0.000912
Dichlorodifluoromethane	75-71-8	490	230,000	39	0.000299	U	0.000299	0.000887	0.000308	U	0.000308	0.000912
EthylBenzene	100-41-4	7,800	110,000	13	0.000120	U	0.000120	0.000887	0.000124	U	0.000124	0.000912
Isopropylbenzene	98-82-8	NS	NS	NS	0.000139	U	0.000139	0.000887	0.000143	U	0.000143	0.000912
m+p-Xylenes	179601-23-1	12,000	170,000	19	0.000224	U	0.000224	0.001770	0.000230	U	0.000230	0.001820
Methyl Acetate	79-20-9	78,000	NS	22	0.000117	U	0.000117	0.000887	0.000121	U	0.000121	0.000912
Methyl tert-Butyl Ether	1634-04-4	110	320	0.2	0.000150	U	0.000150	0.000887	0.000154	U	0.000154	0.000912
Methylcyclohexane	108-87-2	NS	NS	NS	0.000143	U	0.000143	0.000887	0.000147	U	0.000147	0.000912
Methylene Chloride	75-09-2	46	230	0.01	0.000266	U	0.000266	0.000887	0.000274	U	0.000274	0.000912
o-Xylene	95-47-6	12,000	170,000	19	0.000114	U	0.000114	0.000887	0.000117	U	0.000117	0.000912
Styrene	100-42-5	90	260	3	0.000127	U	0.000127	0.000887	0.000130	U	0.000130	0.000912
tert-Butyl alcohol	75-65-0	1,400	11,000	0.3	0.001860	U	0.001860	0.008870	0.001910	U	0.001910	0.009120
Tetrachloroethene	127-18-4	43	1,500	0.005	0.000088	U	0.000088	0.000887	0.000090	U	0.000090	0.000912
Toluene	108-88-3	6,300	91,000	7	0.000071	U	0.000071	0.000887	0.000073	U	0.000073	0.000912
Total Xylenes	1330-20-7	12,000	170,000	19	0.000114	U	0.000114	0.000887	0.000117	U	0.000117	0.000912
trans-1,2-Dichloroethene	156-60-5	300	720	0.6	0.000120	U	0.000120	0.000887	0.000124	U	0.000124	0.000912
trans-1,3-Dichloropropene	10061-02-6	2	7	0.005	0.000169	U	0.000169	0.000887	0.000174	U	0.000174	0.000912
Trichloroethene	79-01-6	3	10	0.01	0.000130	U	0.000130	0.000887	0.000134	U	0.000134	0.000912
Trichlorofluoromethane	75-69-4	23,000	340,000	34	0.000102	U	0.000102	0.000887	0.000105	U	0.000105	0.000912
Vinyl chloride	75-01-4	0.7	2	0.005	0.000168	U	0.000168	0.000887	0.000173	U	0.000173	0.000912
Tentatively Identified Compounds		NS	NS	NS	0	J			0	J		

Table 2. Soil Analytical Data Summary
Base Neutral and Acid Extractable Compounds

Area of Concern Sample Identifier Laboratory Identifier Sample Date	CAS Number	NJDEP Residential Direct Contact SRS[1]	NJDEP Nonresidential Direct Contact SRS[2]	NJDEP Default Impact to Ground Water SSL[3]	8100452-01 NTP-1A 10/10/2018				8100452-02 NTP-2A 10/10/2018				8100452-03 NTP-2B 10/10/2018				8100452-04 NTP-3B 10/10/2018				8100452-05 NTP-4B 10/10/2018				8100452-06 NTP-6 10/10/2018				8100452-07 NTP-7 10/10/2018			
Semivolatile Organics - GC/MS (mg/kg)					Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
1-Methylnaphthalene	90-12-0	NS	NS	NS	0.0355	U	0.0355	0.2220	0.12	U	0.12	0.216	0.12	U	0.12	0.217	0.122	U	0.122	0.219	0.121	U	0.121	0.217	0.0364	U	0.0364	0.2280	0.122	U	0.122	0.219
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	NS	0.0228	U	0.0228	0.1480	NA				NA				NA				NA				0.0234	U	0.0234	0.1520	NA			
2,4,5-Trichlorophenol	95-95-4	6,100	68,000	68	0.0201	U	0.0201	0.1480	NA				NA				NA				NA				0.0206	U	0.0206	0.1520	NA			
2,4,6-Trichlorophenol	88-06-2	19	74	0.2	0.00927	U	0.00927	0.14800	NA				NA				NA				NA				0.00950	U	0.00950	0.15200	NA			
2,4-Dichlorophenol	120-83-2	180	2,100	0.2	0.0149	U	0.0149	0.1480	NA				NA				NA				NA				0.0153	U	0.0153	0.1520	NA			
2,4-Dimethylphenol	105-67-9	1,200	14,000	1	0.0146	U	0.0146	0.1480	NA				NA				NA				NA				0.0149	U	0.0149	0.1520	NA			
2,4-Dinitrophenol	51-28-5	120	1,400	0.3	0.0214	U	0.0214	0.7420	NA				NA				NA				NA				0.0219	U	0.0219	0.7610	NA			
2,4-Dinitrotoluene	121-14-2	0.7	3	0.2	0.0158	U	0.0158	0.1480	NA				NA				NA				NA				0.0162	U	0.0162	0.1520	NA			
2,6-Dinitrotoluene	606-20-2	0.7	3	0.2	0.0354	U	0.0354	0.1480	NA				NA				NA				NA				0.0363	U	0.0363	0.1520	NA			
2-Chloronaphthalene	91-58-7	NS	NS	NS	0.0170	U	0.0170	0.1480	NA				NA				NA				NA				0.0174	U	0.0174	0.1520	NA			
2-Chlorophenol	95-57-8	310	2,200	0.8	0.0196	U	0.0196	0.1480	NA				NA				NA				NA				0.0201	U	0.0201	0.1520	NA			
2-Methylnaphthalene	91-57-6	230	2,400	8	0.0355	U	0.0355	0.2220	0.0345	U	0.0345	0.216	0.0346	U	0.0346	0.217	0.0349	U	0.0349	0.2190	0.0347	U	0.0347	0.217	0.0364	U	0.0364	0.2280	0.0349	U	0.0349	0.219
2-Methylphenol	95-48-7	310	3,400	NS	0.0293	U	0.0293	0.1480	NA				NA				NA				NA				0.0300	U	0.0300	0.1520	NA			
2-Nitroaniline	88-74-4	39	23,000	NS	0.0119	U	0.0119	0.1480	NA				NA				NA				NA				0.0122	U	0.0122	0.1520	NA			
2-Nitrophenol	88-75-5	NS	NS	NS	0.0165	U	0.0165	0.1480	NA				NA				NA				NA				0.0169	U	0.0169	0.1520	NA			
3,3'-Dichlorobenzidine	91-94-1	1	4	0.2	0.0156	U	0.0156	0.1480	NA				NA				NA				NA				0.0160	U	0.0160	0.1520	NA			
3+4-Methylphenol	106-44-5	31	340	NS	0.0271	U	0.0271	0.1480	NA				NA				NA				NA				0.0278	U	0.0278	0.1520	NA			
3-Nitroaniline	99-09-2	NS	NS	NS	0.0275	U	0.0275	0.1480	NA				NA				NA				NA				0.0282	U	0.0282	0.1520	NA			
4,6-Dinitro-2-methylphenol	534-52-1	6	68	0.3	0.0279	U	0.0279	0.3700	NA				NA				NA				NA				0.0286	U	0.0286	0.3800	NA			
4-Bromophenyl-phenyl ether	101-55-3	NS	NS	NS	0.0211	U	0.0211	0.1480	NA				NA				NA				NA				0.0217	U	0.0217	0.1520	NA			
4-Chloro-3-methylphenol	59-50-7	NS	NS	NS	0.0234	U	0.0234	0.1480	NA				NA				NA				NA				0.0239	U	0.0239	0.1520	NA			
4-Chloroaniline	106-47-8	NS	NS	NS	0.0052	U	0.0052	0.1480	NA				NA				NA				NA				0.0053	U	0.0053	0.1520	NA			
4-Chlorophenyl phenyl ether	7005-72-3	NS	NS	NS	0.0080	U	0.0080	0.1480	NA				NA				NA				NA				0.0082	U	0.0082	0.1520	NA			
4-Nitroaniline	100-01-6	NS	NS	NS	0.0741	U	0.0741	0.1480	NA				NA				NA				NA				0.0759	U	0.0759	0.1520	NA			
4-Nitrophenol	100-02-7	NS	NS	NS	0.0095	U	0.0095	0.1480	NA				NA				NA				NA				0.0097	U	0.0097	0.1520	NA			
Acenaphthene	83-32-9	3,400	37,000	110	0.0084	U	0.0084	0.1480	0.0082	U	0.0082	0.144	0.0082	U	0.0082	0.144	0.0083	U	0.0083	0.146	0.0083	U	0.0083	0.145	0.0087	U	0.0087	0.1520	0.0083	U	0.0083	0.146
Acenaphthylene	208-96-8	NS	300,000	NS	0.0052	U	0.0052	0.1480	0.005	U	0.005	0.144	0.0050	U	0.005	0.144	0.0051	U	0.0051	0.146	0.0050	U	0.005	0.145	0.0053	U	0.0053	0.1520	0.0051	U	0.0051	0.146
Acetophenone	98-86-2	2	5	3	0.0147	U	0.0147	0.1480	NA				NA				NA				NA				0.0151	U	0.0151	0.1520	NA			
Anthracene	120-12-7	17,000	30,000	2,400	0.0215	U	0.0215	0.1480	0.0209	U	0.0209	0.144	0.0209	U	0.0209	0.144	0.0211	U	0.0211	0.146	0.0210	U	0.021	0.145	0.0220	U	0.0220	0.1520	0.0211	U	0.0211	0.146
Atrazine	1912-24-9	210	2,400	0.2	0.0139	U	0.0139	0.1480	NA				NA				NA				NA				0.0143	U	0.0143	0.1520	NA			
Benzaldehyde	100-52-7	6,100	68,000	NS	0.0455	U	0.0455	0.1480	NA				NA				NA				NA				0.0466	U	0.0466	0.1520	NA			
Benzo(a)anthracene	56-55-3	5	17	0.8	0.0995	J	0.0149	0.1480	0.0754	J	0.0145	0.144	0.0876	J	0.0145	0.144	0.0147	U	0.0147	0.146	0.0146	U	0.0146	0.145	0.0153	U	0.0153	0.1520	0.133	J	0.0147	0.146
Benzo(a)pyrene	50-32-8	0.5	2	0.2	0.0887	J	0.0258	0.1480	0.0733	J	0.0251	0.144	0.0814	J	0.0251	0.144	0.0254	U	0.0254	0.146	0.0252	U	0.0252	0.145	0.0265	U	0.0265	0.1520	0.105	J	0.0254	0.146
Benzo(b)fluoranthene	205-99-2	5	17	2	0.107	J	0.0208	0.1480	0.0202	U	0.0202	0.144	0.0987	J	0.0203	0.144	0.0205	U	0.0205	0.146	0.0203	U	0.0203	0.145	0.0213	U	0.0213	0.1520	0.169		0.0205	0.146
Benzo(g,h,i)perylene	191-24-2	380,000	30,000	NS	0.0702	J	0.0120	0.1480	0.0911	J	0.0117	0.144	0.0663	J	0.0117	0.144	0.0118	U	0.0118	0.146	0.0117	U	0.0117	0.145	0.0123	U	0.0123	0.1520	0.124	J	0.0118	0.146
Benzo(k)fluoranthene	207-08-9	45	170	25	0.0788	J	0.0170	0.1480	0.106	J	0.0165	0.144	0.0460	J	0.0166	0.144	0.0168	U	0.0168	0.146	0.0166	U	0.0166	0.145	0.0174	U	0.0174	0.1520	0.106	J	0.0167	0.146
Biphenyl	92-52-4	61	240	140	0.0130	U	0.0130	0.1480	NA				NA				NA				NA				0.0133	U	0.0133	0.1520	NA			
bis(2-chloroethoxy)methane	111-91-1	NS	NS	NS	0.0205	U	0.0205	0.1480	NA				NA				NA				NA				0.0210	U	0.0210	0.1520	NA			
bis(2-chloroethyl)ether	111-44-4	0.4	2	0.2	0.0162	U	0.0162	0.1480	NA				NA				NA				NA				0.0166	U	0.0166	0.1520	NA			
bis(2-chloroisopropyl)ether	108-60-1	23	67	5	0.0533	U	0.0533	0.1480	NA				NA				NA				NA				0.0546	U	0.0546	0.1520	NA			
bis(2-ethylhexyl)phthalate	117-81-7	35	140	1,200	0.0296	U	0.0296	0.1480	NA				NA				NA				NA				0.0303	U	0.0303	0.1520	NA			
Butylbenzylphthalate	85-68-7	1,200	14,000	230	0.0135	U	0.0135	0.1480	NA				NA				NA				NA				0.0138	U	0.0138	0.1520	NA			
Caprolactam	105-60-2	31,000	340,000	12	0.0191	U	0.0191	0.1480	NA				NA				NA				NA				0.0196	U	0.0196	0.1520	NA			
Carbazole	86-74-8	24	96	NS	0.0285	U	0.0285	0.3700	NA				NA				NA				NA				0.0292	U	0.0292	0.3800	NA			
Chrysene	218-01-9	450	1,700	80	0.0909	J	0.0101	0.1480	0.0911	J	0.0099	0.1440	0.0730	J	0.0099	0.1440	0.0100	U	0.0100	0.1460	0.0099	U	0.0099	0.1450	0.0104	U	0.0104	0.1520	0.134	J	0.0100	0.1460
Dibenzo(a,h)anthracene	53-70-3	1	2	0.8	0.0147	U	0.0147	0.1480	0.0143	U	0.0143	0.1440	0.0143	U	0.0143	0.1440	0.0145	U	0.0145	0.1460	0.0143	U	0.0143	0.1450	0.0151	U	0.0151	0.1520	0.0144	U	0.0144	0.1460
Dibenzofuran	132-64-9	NS	NS	NS	0.0088	U	0.0088	0.1480	NA				NA				NA				NA				0.0090	U	0.0090	0.1520	NA			
Diethylphthalate	84-66-2	49,000	550,000	88	0.0287	U	0.0287	0.1480	NA				NA				NA				NA				0.0294	U	0.0294	0.1520	NA			
Dimethylphthalate	131-11-3	NS	NS	NS	0.0092	U	0.0092	0.1480	NA				NA				NA				NA				0.0721	J	0.0094	0.1520	NA			
Di-n-butylphthalate	84-74-2	6,100	68,000	760	0.0605	U	0.0605	0.1480	NA				NA				NA				NA				0.0620	U	0.0620	0.1520	NA			
Di-n-octylphthalate	117-84-0	2,400	27,000	3,300	0.0304	U	0.0304	0.1480	NA				NA				NA				NA				0.0311	U	0.0311	0.1520	NA			
Fluoranthene	206-44-0	2,300	24,000	1300	0.167		0.0139	0.1480	0.12	J	0.0135	0.144	0.153		0.0135	0.1440	0.0137	U	0.0137	0.1460	0.0136	U	0.0136	0.1450	0.0143	U	0.0143	0.1520	0.193		0.0137	0.1460
Fluorene	86-73-7	2,300	24,000	170	0.0123	U	0.0123	0.1480	0.012	U	0.012	0.144	0.0120	U	0.0120	0.1440	0.0122	U	0.0122	0.1460	0.0121	U	0.0121	0.1450	0.0127	U	0.0127	0.1520	0.0122	U	0.0122	0.1460
Hexachlorobenzene	118-74-1	0.3	1	0.2	0.0194	U	0.0194	0.1480	NA				NA				NA				NA				0.0198	U	0.0198	0.1520	NA			
Hexachlorobutadiene	87-68-3	6	25	0.9	0.0711	U	0.0711	0.1480	NA				NA				NA				NA				0.0729	U	0.0729	0.1520	NA			
Hexachlorocyclopentadiene	77-47-4	45	110	320	0.0617	U	0.0617	0.3700	NA				NA				NA				NA				0.0633	U	0.0633	0.3800	NA			
Hexachloroethane	67-72-1	12	48	0.2	0.0162	U	0.0162	0.1480	NA				NA				NA				NA				0.0166	U	0.0166	0.1520	NA			
Indeno(1,2,3-cd)pyrene	193-39-5	5	17	7	0.0610	J	0.0159	0.1480	0.0155	U	0.0155	0.1440	0.0155	U	0.0155	0.1440	0.0157	U	0.0157	0.1460	0.0155	U	0.0155	0.1450	0.0163	U	0.0163	0.1520	0.0157	U	0.0157	0.1460
Isophorone	78-59-1	510	2,000	0.2	0.0097	U	0.0097	0.1480	NA				NA				NA				NA				0.0099	U	0.0099	0.1520	NA			
Naphthalene	91-20-3	6	17	25	0.0110	U	0.0110	0.1480	0.0107	U	0.0107	0.1440	0.0107	U	0.0107	0.1440	0.0108	U	0.0108	0.1460	0.0107	U	0.0107	0.1450	0.0112	U	0.0112	0.1520	0.0108	U	0.0108	0.1460
Nitrobenzene	98-95-3	5	14	0.2	0.0251	U	0.0251	0.1480	NA				NA				NA				NA				0.0258	U	0.0258	0.1520	NA			
n-Nitroso-di-n-propylamine	621-64-7	0.2	0.3	0.2	0.0079	U	0.0079	0.1480	NA				NA				NA				NA				0.0081	U	0.0081	0.1520	NA			
n-Nitrosodiphenylamine	86-30-6	99	390	0.4	0.0316	U	0.0316	0.1480	NA				NA				NA				NA				0.0324	U	0.0324	0.1520	NA			
Phenanthrene	85-01-8	NS	300,000	NS	0.126	J	0.0195	0.1480	0.0544	J	0.0189	0.1440	0.114	J	0.0190	0.1440	0.0192	U	0.0192	0.1460	0.0190	U	0.0190	0.1450	0.0200	U	0.0200	0.1520	0.0964	J	0.0192	0.1460
Phenol	108-95-2	18,000	210,000	8	0.0120	U	0.0120	0.1480	NA				NA				NA				NA				0.0123	U	0.0123	0.1520	NA			
Pyrene	129-00-0	1,700	18,000	840	0.158		0.0109	0.1480	0.130	J	0.0106	0.1440	0.137	J	0.0106	0.1440	0.0107	U	0.0107	0.1460	0.0106	U	0.0106	0.1450	0.0112	U	0.0112	0.1520	0.184		0.0107	0.1460
Tentatively Identified Compounds		NS	NS	NS	0	J																			0	J						

Table 2. Soil Analytical Data Summary
Base Neutral and Acid Extractable Compounds

Area of Concern																															
Sample Identifier	CAS Number	NJDEP Residential Direct Contact SRS[1]	NJDEP Nonresidential Direct Contact SRS[2]	NJDEP Default Impact to Ground Water SSL[3]	8100452-08 STP-1B 10/10/2018				8100452-09 STP-2B 10/10/2018				8100452-10 STP-3B 10/10/2018				8100452-11 STP-4A 10/10/2018				8100452-12 STP-4B 10/10/2018				8100452-13 STP-5 10/10/2018				8100452-14 STP-7 10/10/2018			
Laboratory Identifier																															
Sample Date																															
Semivolatile Organics - GC/MS (mg/kg)					Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
1-Methylnaphthalene	90-12-0	NS	NS	NS	0.1240	U	0.1240	0.223	0.121	U	0.121	0.218	0.121	U	0.121	0.219	0.122	U	0.1220	0.221	0.0348	U	0.0348	0.2180	0.12	U	0.12	0.216	0.0343	U	0.0343	0.2150
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	NS	NA				NA				NA				NA				0.0224	U	0.0224	0.1450	NA				0.0221	U	0.0221	0.1430
2,4,5-Trichlorophenol	95-95-4	6,100	68,000	68	NA				NA				NA				NA				0.0197	U	0.0197	0.1450	NA				0.0195	U	0.0195	0.1430
2,4,6-Trichlorophenol	88-06-2	19	74	0.2	NA				NA				NA				NA				0.00908	U	0.00908	0.14500	NA				0.00896	U	0.00896	0.14300
2,4-Dichlorophenol	120-83-2	180	2,100	0.2	NA				NA				NA				NA				0.0146	U	0.0146	0.1450	NA				0.0144	U	0.0144	0.1430
2,4-Dimethylphenol	105-67-9	1,200	14,000	1	NA				NA				NA				NA				0.0143	U	0.0143	0.1450	NA				0.0141	U	0.0141	0.1430
2,4-Dinitrophenol	51-28-5	120	1,400	0.3	NA				NA				NA				NA				0.0209	U	0.0209	0.7270	NA				0.0207	U	0.0207	0.7180
2,4-Dinitrotoluene	121-14-2	0.7	3	0.2	NA				NA				NA				NA				0.0155	U	0.0155	0.1450	NA				0.0153	U	0.0153	0.1430
2,6-Dinitrotoluene	606-20-2	0.7	3	0.2	NA				NA				NA				NA				0.0347	U	0.0347	0.1450	NA				0.0342	U	0.0342	0.1430
2-Chloronaphthalene	91-58-7	NS	NS	NS	NA				NA				NA				NA				0.0167	U	0.0167	0.1450	NA				0.0165	U	0.0165	0.1430
2-Chlorophenol	95-57-8	310	2,200	0.8	NA				NA				NA				NA				0.0192	U	0.0192	0.1450	NA				0.0189	U	0.0189	0.1430
2-Methylnaphthalene	91-57-6	230	2,400	8	0.0356	U	0.0356	0.223	0.0348	U	0.0348	0.218	0.0349	U	0.0349	0.219	0.0352	U	0.0352	0.221	0.0348	U	0.0348	0.2180	0.0344	U	0.0344	0.216	0.0343	U	0.0343	0.2150
2-Methylphenol	95-48-7	310	3,400	NS	NA				NA				NA				NA				0.0287	U	0.0287	0.1450	NA				0.0283	U	0.0283	0.1430
2-Nitroaniline	88-74-4	39	23,000	NS	NA				NA				NA				NA				0.0117	U	0.0117	0.1450	NA				0.0115	U	0.0115	0.1430
2-Nitrophenol	88-75-5	NS	NS	NS	NA				NA				NA				NA				0.0161	U	0.0161	0.1450	NA				0.0159	U	0.0159	0.1430
3,3'-Dichlorobenzidine	91-94-1	1	4	0.2	NA				NA				NA				NA				0.0153	U	0.0153	0.1450	NA				0.0151	U	0.0151	0.1430
3+4-Methylphenol	106-44-5	31	340	NS	NA				NA				NA				NA				0.0266	U	0.0266	0.1450	NA				0.0263	U	0.0263	0.1430
3-Nitroaniline	99-09-2	NS	NS	NS	NA				NA				NA				NA				0.0269	U	0.0269	0.1450	NA				0.0266	U	0.0266	0.1430
4,6-Dinitro-2-methylphenol	534-52-1	6	68	0.3	NA				NA				NA				NA				0.0274	U	0.0274	0.3630	NA				0.0270	U	0.0270	0.3580
4-Bromophenyl-phenyl ether	101-55-3	NS	NS	NS	NA				NA				NA				NA				0.0207	U	0.0207	0.1450	NA				0.0204	U	0.0204	0.1430
4-Chloro-3-methylphenol	59-50-7	NS	NS	NS	NA				NA				NA				NA				0.0229	U	0.0229	0.1450	NA				0.0226	U	0.0226	0.1430
4-Chloroaniline	106-47-8	NS	NS	NS	NA				NA				NA				NA				0.0051	U	0.0051	0.1450	NA				0.0050	U	0.0050	0.1430
4-Chlorophenyl phenyl ether	7005-72-3	NS	NS	NS	NA				NA				NA				NA				0.0078	U	0.0078	0.1450	NA				0.0077	U	0.0077	0.1430
4-Nitroaniline	100-01-6	NS	NS	NS	NA				NA				NA				NA				0.0726	U	0.0726	0.1450	NA				0.0717	U	0.0717	0.1430
4-Nitrophenol	100-02-7	NS	NS	NS	NA				NA				NA				NA				0.0093	U	0.0093	0.1450	NA				0.0092	U	0.0092	0.1430
Acenaphthene	83-32-9	3,400	37,000	110	0.0085	U	0.0085	0.148	0.0083	U	0.0083	0.1450	0.0083	U	0.0083	0.1450	0.0084	U	0.0084	0.1470	0.0083	U	0.0083	0.1450	0.0082	U	0.0082	0.1440	0.0082	U	0.0082	0.1430
Acenaphthylene	208-96-8	NS	300,000	NS	0.0052	U	0.0052	0.148	0.0051	U	0.0051	0.1450	0.0051	U	0.0051	0.1450	0.0051	U	0.0051	0.1470	0.0051	U	0.0051	0.1450	0.0050	U	0.0050	0.1440	0.0050	U	0.0050	0.1430
Acetophenone	98-86-2	2	5	3	NA				NA				NA				NA				0.0144	U	0.0144	0.1450	NA				0.0142	U	0.0142	0.1430
Anthracene	120-12-7	17,000	30,000	2,400	0.0215	U	0.0215	0.148	0.0211	U	0.0211	0.1450	0.0211	U	0.0211	0.1450	0.0213	U	0.0213	0.1470	0.0210	U	0.0210	0.1450	0.0208	U	0.0208	0.1440	0.0208	U	0.0208	0.1430
Atrazine	1912-24-9	210	2,400	0.2	NA				NA				NA				NA				0.0136	U	0.0136	0.1450	NA				0.0135	U	0.0135	0.1430
Benzaldehyde	100-52-7	6,100	68,000	NS	NA				NA				NA				NA				0.0446	U	0.0446	0.1450	NA				0.0440	U	0.0440	0.1430
Benzo(a)anthracene	56-55-3	5	17	0.8	0.0150	U	0.0150	0.148	0.0146	U	0.0146	0.1450	0.0146	U	0.0146	0.1450	0.0148	U	0.0148	0.1470	0.0146	U	0.0146	0.1450	0.0145	U	0.0145	0.1440	0.0144	U	0.0144	0.1430
Benzo(a)pyrene	50-32-8	0.5	2	0.2	0.0259	U	0.0259	0.148	0.0253	U	0.0253	0.1450	0.0253	U	0.0253	0.1450	0.0256	U	0.0256	0.1470	0.0253	U	0.0253	0.1450	0.0250	U	0.0250	0.1440	0.0250	U	0.0250	0.1430
Benzo(b)fluoranthene	205-99-2	5	17	2	0.0209	U	0.0209	0.148	0.0204	U	0.0204	0.1450	0.0204	U	0.0204	0.1450	0.0206	U	0.0206	0.1470	0.0204	U	0.0204	0.1450	0.0202	U	0.0202	0.1440	0.0201	U	0.0201	0.1430
Benzo(g,h,i)perylene	191-24-2	380,000	30,000	NS	0.0121	U	0.0121	0.148	0.0118	U	0.0118	0.1450	0.0118	U	0.0118	0.1450	0.0119	U	0.0119	0.1470	0.0118	U	0.0118	0.1450	0.0117	U	0.0117	0.1440	0.0116	U	0.0116	0.1430
Benzo(k)fluoranthene	207-08-9	45	170	25	0.0171	U	0.0171	0.148	0.0167	U	0.0167	0.1450	0.0167	U	0.0167	0.1450	0.0169	U	0.0169	0.1470	0.0167	U	0.0167	0.1450	0.0165	U	0.0165	0.1440	0.0165	U	0.0165	0.1430
Biphenyl	92-52-4	61	240	140	NA				NA				NA				NA				0.0128	U	0.0128	0.1450	NA				0.0126	U	0.0126	0.1430
bis(2-chloroethoxy)methane	111-91-1	NS	NS	NS	NA				NA				NA				NA				0.0201	U	0.0201	0.1450	NA				0.0198	U	0.0198	0.1430
bis(2-chloroethyl)ether	111-44-4	0.4	2	0.2	NA				NA				NA				NA				0.0159	U	0.0159	0.1450	NA				0.0157	U	0.0157	0.1430
bis(2-chloroisopropyl)ether	108-60-1	23	67	5	NA				NA				NA				NA				0.0522	U	0.0522	0.1450	NA				0.0515	U	0.0515	0.1430
bis(2-ethylhexyl)phthalate	117-81-7	35	140	1,200	NA				NA				NA				NA				0.0290	U	0.0290	0.1450	NA				0.0286	U	0.0286	0.1430
Butylbenzylphthalate	85-68-7	1,200	14,000	230	NA				NA				NA				NA				0.0132	U	0.0132	0.1450	NA				0.0130	U	0.0130	0.1430
Caprolactam	105-60-2	31,000	340,000	12	NA				NA				NA				NA				0.0188	U	0.0188	0.1450	NA				0.0185	U	0.0185	0.1430
Carbazole	86-74-8	24	96	NS	NA				NA				NA				NA				0.0279	U	0.0279	0.3630	NA				0.0275	U	0.0275	0.3580
Chrysene	218-01-9	450	1,700	80	0.0102	U	0.0102	0.1480	0.0100	U	0.0100	0.1450	0.0100	U	0.0100	0.1450	0.0101	U	0.0101	0.1470	0.0100	U	0.0100	0.1450	0.0099	U	0.0099	0.1440	0.0098	U	0.0098	0.1430
Dibenzo(a,h)anthracene	53-70-3	1	2	0.8	0.0147	U	0.0147	0.1480	0.0144	U	0.0144	0.1450	0.0144	U	0.0144	0.1450	0.0146	U	0.0146	0.1470	0.0144	U	0.0144	0.1450	0.0142	U	0.0142	0.1440	0.0142	U	0.0142	0.1430
Dibenzofuran	132-64-9	NS	NS	NS	NA				NA				NA				NA				0.0087	U	0.0087	0.1450	NA				0.0085	U	0.0085	0.1430
Diethylphthalate	84-66-2	49,000	550,000	88	NA				NA				NA				NA				0.0281	U	0.0281	0.1450	NA				0.0278	U	0.0278	0.1430
Dimethylphthalate	131-11-3	NS	NS	NS	NA				NA				NA				NA				0.0632	J	0.0090	0.1450	NA				0.0089	U	0.0089	0.1430
Di-n-butylphthalate	84-74-2	6,100	68,000	760	NA				NA				NA				NA				0.0593	U	0.0593	0.1450	NA				0.0585	U	0.0585	0.1430
Di-n-octylphthalate	117-84-0	2,400	27,000	3,300	NA				NA				NA				NA				0.0298	U	0.0298	0.1450	NA				0.0294	U	0.0294	0.1430
Fluoranthene	206-44-0	2,300	24,000	1300	0.0140	U	0.0140	0.1480	0.0137	U	0.0137	0.1450	0.0137	U	0.0137	0.1450	0.0138	U	0.0138	0.1470	0.0136	U	0.0136	0.1450	0.0135	U	0.0135	0.1440	0.0135	U	0.0135	0.1430
Fluorene	86-73-7	2,300	24,000	170	0.0124	U	0.0124	0.1480	0.0121	U	0.0121	0.1450	0.0121	U	0.0121	0.1450	0.0122	U	0.0122	0.1470	0.0121	U	0.0121	0.1450	0.0120	U	0.0120	0.1440	0.0119	U	0.0119	0.1430
Hexachlorobenzene	118-74-1	0.3	1	0.2	NA				NA				NA				NA				0.0190	U	0.0190	0.1450	NA				0.0187	U	0.0187	0.1430
Hexachlorobutadiene	87-68-3	6	25	0.9	NA				NA				NA				NA				0.0697	U	0.0697	0.1450	NA				0.0688	U	0.0688	0.1430
Hexachlorocyclopentadiene	77-47-4	45	110	320	NA				NA				NA				NA				0.0605	U	0.0605	0.3630	NA				0.0597	U	0.0597	0.3580
Hexachloroethane	67-72-1	12	48	0.2	NA				NA				NA				NA				0.0159	U	0.0159	0.1450	NA				0.0157	U	0.0157	0.1430
Indeno(1,2,3-cd)pyrene	193-39-5	5	17	7	0.0160	U	0.0160	0.1480	0.0156	U	0.0156	0.1450	0.0156	U	0.0156	0.1450	0.0158	U	0.0158	0.1470	0.0156	U	0.0156	0.1450	0.0154	U	0.0154	0.1440	0.0154	U	0.0154	0.1430
Isophorone	78-59-1	510	2,000	0.2	NA				NA				NA				NA				0.0095	U	0.0095	0.1450	NA				0.0094	U	0.0094	0.1430
Naphthalene	91-20-3	6	17	25	0.0110	U	0.0110	0.1480	0.0108	U	0.0108	0.1450	0.0108	U	0.0108	0.1450	0.0109	U	0.0109	0.1470	0.0108	U	0.0108	0.1450	0.0106	U	0.0106	0.1440	0.0106	U	0.0106	0.1430
Nitrobenzene	98-95-3	5	14	0.2	NA				NA				NA				NA				0.0246	U	0.0246	0.1450	NA				0.0243	U	0.0243	0.1430
n-Nitroso-di-n-propylamine	621-64-7	0.2	0.3	0.2	NA				NA				NA				NA				0.0078	U	0.0078	0.1450	NA				0.0077	U	0.0077	0.1430
n-Nitrosodiphenylamine	86-30-6	99	390	0.4	NA				NA				NA				NA				0.0310	U	0.0310	0.1450	NA				0.0306	U	0.0306	0.1430
Phenanthrene	85-01-8	NS	300,000	NS	0.0195	U	0.0195	0.1480	0.0191	U	0.0191	0.1450	0.0191	U	0.0191	0.1450	0.0193	U	0.0193	0.1470	0.0191	U	0.0191	0.1450	0.0189	U	0.0189	0.1440	0.0188	U	0.0188	0.1430
Phenol	108-95-2	18,000	210,000	8	NA				NA				NA				NA				0.0118	U	0.0118	0.1450	NA				0.0116	U	0.0116	0.1430
Pyrene	129-00-0	1,700	18,000	840	0.0109	U	0.0109	0.1480	0.0107	U	0.0107	0.1450	0.0107	U	0.0107	0.1450	0.0108	U	0.0108	0.1470	0.0107	U	0.0107	0.1450	0.0106	U	0.0106	0.1440	0.0105	U	0.0105	0.1430
Tentatively Identified Compounds		NS	NS	NS																	0	J							0	J		

Table 3. Soil Analytical Data Summary
TAL Metals, EPH, PCBs, Pesticides

Area of Concern / Sample Identifier / Laboratory Identifier / Sample Date	CAS Number	NJDEP Residential Direct Contact SRS[1]	NJDEP Nonresidential Direct Contact SRS[2]	NJDEP Default Impact to Ground Water SSL[3]	8100452-01 NTP-1A 10/10/2018				8100452-02 NTP-2A 10/10/2018				8100452-03 NTP-2B 10/10/2018				8100452-04 NTP-3B 10/10/2018				8100452-05 NTP-4B 10/10/2018				8100452-06 NTP-6 10/10/2018				8100452-07 NTP-7 10/10/2018			
TAL Metals (mg/kg)					Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Aluminum	7429-90-5	78,000	NS	6,000	3290			2.81	3800			2.62	3620			2.56	4300			2.66	5500			2.86	**6670**			2.94	4450			2.71
Antimony	7440-36-0	31	450	6	1.4	U		1.40	1.3	U		1.31	1.3	U		1.28	1.3	U		1.33	1.4	U		1.43	1.5	U		1.47	1.4	U		1.35
Arsenic	7440-38-2	19.0	19	19	1.4	U		1.40	1.3	U		1.31	1.3	U		1.28	1.3	U		1.33	1.4	U		1.43	1.71			1.47	1.4	U		1.35
Barium	7440-39-3	16,000	59,000	2,100	18.6			0.562	21.4			0.525	17.9			0.511	24.3			0.532	31.8			0.572	29.1			0.588	21.4			0.542
Beryllium	7440-41-7	16	140	0.7	0.138			0.0281	0.160			0.0262	0.184			0.0256	0.181			0.0266	0.203			0.0286	0.282			0.0294	0.160			0.0271
Cadmium	7440-43-9	78	78	2	0.28	U		0.281	0.262	U		0.262	0.256	U		0.256	0.266	U		0.266	0.286	U		0.286	0.294	U		0.294	0.271	U		0.271
Calcium	7440-70-2	NS	NS	NS	938			28.1	1260			26.2	1100			25.6	619			26.6	933			28.6	1140			29.4	1080			27.1
Chromium	7440-47-3	NS	NS	NS	5.14			0.281	6.19			0.262	5.98			0.256	7.12			0.266	11.2			0.286	9.79			0.294	6.67			0.271
Cobalt	7440-48-4	1,600	590	90	2.31			0.225	2.83			0.210	2.49			0.205	3.03			0.213	4.83			0.229	3.59			0.235	3.01			0.217
Copper	7440-50-8	3,100	45,000	11,000	8.71			0.281	10.4			0.262	9.46			0.256	7.89			0.266	9.21			0.286	10.1			0.294	8.67			0.271
Iron	7439-89-6	NS	NS	NS	7190			5.62	8240			5.25	8490			5.11	9220			5.32	12100			5.72	12300			5.88	8450			5.42
Lead	7439-92-1	400	800	90	23.8			1.40	26.2			1.31	19			1.28	6.72			1.33	5.21			1.43	7.82			1.47	11.3			1.35
Magnesium	7439-95-4	NS	NS	NS	763			56.2	952			52.5	885			51.1	946			53.2	1750			57.2	1290			58.8	1090			54.2
Manganese	7439-96-5	11,000	5,900	65	**125**			0.281	**144**			0.262	**139**			0.256	**165**			0.266	**229**			0.286	**176**			0.294	**145**			0.271
Mercury	7439-97-6	23	65	0.1	0.0544	U		0.0544	0.0465	U		0.0465	0.0510	U		0.0510	0.0497	U		0.0497	0.0502	U		0.0502	0.0508	U		0.0508	0.0479	U		0.0479
Nickel	7440-02-0	1,600	23,000	48	4.33			0.140	5.14			0.131	5.09			0.128	5.13			0.133	7.75			0.143	6.47			0.147	5.23			0.135
Potassium	9/7/7440	NS	NS	NS	212			112	251			105	233			102	252			106	261			114	361			118	230			108
Selenium	7782-49-2	390	5,700	11	1.40	U		1.40	1.3	U		1.31	1.3	U		1.28	1.3	U		1.33	1.4	U		1.43	1.5	U		1.47	1.4	U		1.35
Silver	7440-22-4	390	5,700	1	0.56	U		0.562	0.525	U		0.525	0.511	U		0.511	0.532	U		0.532	0.572	U		0.572	0.588	U		0.588	0.542	U		0.542
Sodium	7440-23-5	NS	NS	NS	107			56.2	116			52.5	93.8			51.1	136			53.2	335			57.2	132			58.8	160			54.2
Thallium	7440-28-0	withdrawn	withdrawn	3	1.40	U		1.40	1.3	U		1.31	1.3	U		1.28	1.3	U		1.33	1.4	U		1.43	1.5	U		1.47	1.4	U		1.35
Vanadium	7440-62-2	78	1,100	NS	9.94			0.562	11.2			0.525	12.0			0.511	13.4			0.532	18.9			0.572	17.4			0.588	12.8			0.542
Zinc	7440-66-6	23,000	110,000	930	22.8			0.843	30.2			0.787	24.5			0.767	20.3			0.797	17.6			0.858	20.9			0.882	21.1			0.813
EPH (mg/kg)					Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Total EPH (Category 2)		NS	NS	NS	62.8		11.1	22.2	97.5		10.8	21.6	38.1		10.8	21.7	10.9	U	10.9	21.9	10.9	U	10.9	21.7	11.4	U	11.4	22.8	65.8		10.9	21.9
PCBs (mg/kg)					Result	Qualifier	MDL	RL																	Result	Qualifier	MDL	RL				
Aroclor-1016	12674-11-2	0	1	0	0.000654	U	0.000654	0.0367	NA				NA				NA				NA				0.000670	U	0.00067	0.0376	NA			
Aroclor-1221	11104-28-2	0	1	0.2	0.001130	U	0.00113	0.0367	NA				NA				NA				NA				0.001160	U	0.00116	0.0376	NA			
Aroclor-1232	11141-16-5	0.2	1	0.2	0.000864	U	0.000864	0.0367	NA				NA				NA				NA				0.000886	U	0.000886	0.0376	NA			
Aroclor-1242	53469-21-9	0	1	0	0.001250	U	0.00125	0.0367	NA				NA				NA				NA				0.001280	U	0.00128	0.0376	NA			
Aroclor-1248	12672-29-6	0	1	0.2	0.000861	U	0.000861	0.0367	NA				NA				NA				NA				0.000883	U	0.000883	0.0376	NA			
Aroclor-1254	11097-69-1	0	1	0.2	0.001310	U	0.00131	0.0367	NA				NA				NA				NA				0.001340	U	0.00134	0.0376	NA			
Aroclor-1260	11096-82-5	0	1	0.2	0.000968	U	0.000968	0.0367	NA				NA				NA				NA				0.000992	U	0.000992	0.0376	NA			
Aroclor-1262	37324-23-5	0.2	1.0	0.2	0.001420	U	0.00142	0.0367	NA				NA				NA				NA				0.001450	U	0.00145	0.0376	NA			
Aroclor-1268	11100-14-4	0	1	0.2	0.000742	U	0.000742	0.0367	NA				NA				NA				NA				0.000761	U	0.000761	0.0376	NA			
Total PCBs	1336-36-3	0	1	0	0.000654	U	0.000654	0.0367	NA				NA				NA				NA				0.000670	U	0.00067	0.0376	NA			
Pesticides (mg/kg)					Result	Qualifier	MDL	RL																	Result	Qualifier	MDL	RL				
4,4'-DDD	72-54-8	3	13	4	0.000875	U	0.000875	0.0015	NA				NA				NA				NA				0.000897	U	0.000897	0.0015	NA			
4,4'-DDE	72-55-9	2	9	18	0.001020	U	0.00102	0.0015	NA				NA				NA				NA				0.001050	U	0.00105	0.0015	NA			
4,4'-DDT	50-29-3	2.0	8	11	0.000694	U	0.000694	0.0015	NA				NA				NA				NA				0.000711	U	0.000711	0.0015	NA			
4,4'-DDT [2C]	50-29-3	2	8	11					NA				NA				NA				NA								NA			
Aldrin	309-00-2	0	0	0.2	0.000898	U	0.000898	0.0015	NA				NA				NA				NA				0.000920	U	0.00092	0.0015	NA			
alpha-BHC	319-84-6	0	1	0.002	0.000559	U	0.000559	0.0015	NA				NA				NA				NA				0.000574	U	0.000574	0.0015	NA			
beta-BHC	319-85-7	0	2	0.002	0.001420	U	0.00142	0.0015	NA				NA				NA				NA				0.001460	U	0.00146	0.0015	NA			
Chlordane	57-74-9	0.2	1.0	0.05	0.000971	U	0.000971	0.0015	NA				NA				NA				NA				0.000995	U	0.000995	0.0015	NA			
delta-BHC	319-86-8	NA	NA	NA	0.001120	U	0.00112	0.0015	NA				NA				NA				NA				0.001150	U	0.00115	0.0015	NA			
Dieldrin	60-57-1	0	0	0	0.000779	U	0.000779	0.0015	NA				NA				NA				NA				0.000798	U	0.000798	0.0015	NA			
Endosulfan I	959-98-8	470	6,800	4	0.001000	U	0.001	0.0015	NA				NA				NA				NA				0.001030	U	0.00103	0.0015	NA			
Endosulfan II	33213-65-9	470	6,800	4	0.000786	U	0.000786	0.0015	NA				NA				NA				NA				0.000806	U	0.000806	0.0015	NA			
Endosulfan sulfate	1031-07-8	470.0	6,800	2	0.000786	U	0.000786	0.0015	NA				NA				NA				NA				0.000806	U	0.000806	0.0015	NA			
Endrin	72-20-8	23	340	1	0.000742	U	0.000742	0.0015	NA				NA				NA				NA				0.000761	U	0.000761	0.0015	NA			
Endrin aldehyde	7421-93-4	NA	NA	NA	0.000617	U	0.000617	0.0015	NA				NA				NA				NA				0.000633	U	0.000633	0.0015	NA			
Endrin ketone	53494-70-5	NA	NA	NA	0.000882	U	0.000882	0.0015	NA				NA				NA				NA				0.000904	U	0.000904	0.0015	NA			
gamma-BHC (Lindane)	58-89-9	0	2	0.002	0.000661	U	0.000661	0.0015	NA				NA				NA				NA				0.000677	U	0.000677	0.0015	NA			
Heptachlor	76-44-8	0.1	0.7	0.5	0.000845	U	0.000845	0.0015	NA				NA				NA				NA				0.000867	U	0.000867	0.0015	NA			
Heptachlor Epoxide	1024-57-3	0	0	0.01	0.000904	U	0.000904	0.0015	NA				NA				NA				NA				0.000927	U	0.000927	0.0015	NA			
Methoxychlor	72-43-5	390	5,700	160	0.000920	U	0.00092	0.0015	NA				NA				NA				NA				0.000943	U	0.000943	0.0015	NA			
Toxaphene	8001-35-2	1	3	0	0.022500	U	0.0225	0.073	NA				NA				NA				NA				0.023000	U	0.023	0.075	NA			

Table 3. Soil Analytical Data Summary
TAL Metals, EPH, PCBs, Pesticides

PEAK ENVIRONMENTAL LLC

Area of Concern / Sample Identifier / Laboratory Identifier / Sample Date	CAS Number	NJDEP Residential Direct Contact SRS[1]	NJDEP Nonresidential Direct Contact SRS[2]	NJDEP Default Impact to Ground Water SSL[3]	8100452-08 STP-1B 10/10/2018				8100452-09 STP-2B 10/10/2018				8100452-10 STP-3B 10/10/2018				8100452-11 STP-4A 10/10/2018				8100452-12 STP-4B 10/10/2018				8100452-13 STP-5 10/10/2018				8100452-14 STP-7 10/10/2018			
TAL Metals (mg/kg)					Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Aluminum	7429-90-5	78,000	NS	6,000	5040			2.68	5700			2.94	4900			2.59	**6100**			2.83	5610			2.70	**6860**			2.87	4650			2.54
Antimony	7440-36-0	31	450	6	1.3	U		1.34	1.5	U		1.47	1.3	U		1.29	1.4	U		1.41	1.4	U		1.35	1.4	U		1.44	1.3	U		1.27
Arsenic	7440-38-2	19.0	19	19	1.3	U		1.34	1.5	U		1.47	1.65			1.29	1.4	U		1.41	1.4	U		1.35	3.01			1.44	1.49			1.27
Barium	7440-39-3	16,000	59,000	2,100	20.2			0.537	23.4			0.587	19.4			0.518	23.3			0.566	24.9			0.540	23.0			0.574	18.5			0.508
Beryllium	7440-41-7	16	140	0.7	0.191			0.0268	0.223			0.0294	0.184			0.0259	0.215			0.0283	0.211			0.0270	0.256			0.0287	0.178			0.0254
Cadmium	7440-43-9	78	78	2	0.268	U		0.268	0.294	U		0.294	0.259	U		0.259	0.283	U		0.283	0.270	U		0.270	0.287	U		0.287	0.254	U		0.254
Calcium	7440-70-2	NS	NS	NS	453			26.8	473			29.4	463			25.9	634			28.3	899			27.0	310			28.7	294			25.4
Chromium	7440-47-3	NS	NS	NS	7.08			0.268	7.63			0.294	6.68			0.259	8.26			0.283	7.75			0.270	8.30			0.287	6.14			0.254
Cobalt	7440-48-4	1,600	590	90	3.03			0.215	3.23			0.235	2.90			0.207	3.51			0.226	3.46			0.216	4.74			0.230	2.97			0.203
Copper	7440-50-8	3,100	45,000	11,000	7.22			0.268	8.57			0.294	7.66			0.259	9.17			0.283	8.07			0.270	9.68			0.287	6.73			0.254
Iron	7439-89-6	NS	NS	NS	9500			5.37	11100			5.87	9550			5.18	10900			5.66	10600			5.40	15100			5.74	9110			5.08
Lead	7439-92-1	400	800	90	4.88			1.34	6.05			1.47	6.01			1.29	10.6			1.41	8.26			1.35	5.25			1.44	4.31			1.27
Magnesium	7439-95-4	NS	NS	NS	966			53.7	1070			58.7	977			51.8	1110			56.6	1220			54.0	1150			57.4	910			50.8
Manganese	7439-96-5	11,000	5,900	65	**144**			0.268	**187**			0.294	**163**			0.259	**209**			0.283	**261**			0.270	**333**			0.287	**240**			0.254
Mercury	7439-97-6	23	65	0.1	0.0457	U		0.0457	0.0514	U		0.0514	0.0562			0.0478	0.0540	U		0.0540	0.0495	U		0.0495	0.0518	U		0.0518	0.0463	U		0.0463
Nickel	7440-02-0	1,600	23,000	48	5.18			0.134	5.76			0.147	5.18			0.129	6.25			0.141	6.18			0.135	7.29			0.144	5.05			0.127
Potassium	9/7/7440	NS	NS	NS	260			107	271			117	272			104	286			113	283			108	241			115	210			102
Selenium	7782-49-2	390	5,700	11	1.3	U		1.34	1.5	U		1.47	1.3	U		1.29	1.4	U		1.41	1.4	U		1.35	1.4	U		1.44	1.3	U		1.27
Silver	7440-22-4	390	5,700	1	0.537	U		0.537	0.587	U		0.587	0.518	U		0.518	0.566	U		0.566	0.540	U		0.540	0.574	U		0.574	0.508	U		0.508
Sodium	7440-23-5	NS	NS	NS	72.2			53.7	74.3			58.7	74.0			51.8	85.2			56.6	82.6			54.0	57.400	U		57.4	52.0			50.8
Thallium	7440-28-0	withdrawn	withdrawn	3	1.3	U		1.34	1.5	U		1.47	1.3	U		1.29	1.4	U		1.41	1.4	U		1.35	1.4	U		1.44	1.3	U		1.27
Vanadium	7440-62-2	78	1,100	NS	13.0			0.537	13.9			0.587	12.7			0.518	15.4			0.566	14.7			0.540	17.3			0.574	11.8			0.508
Zinc	7440-66-6	23,000	110,000	930	23.5			0.805	38.2			0.881	21.0			0.777	20.4			0.849	23.2			0.810	39.9			0.861	24.1			0.761
EPH (mg/kg)					Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Total EPH (Category 2)		NS	NS	NS	11.2	U	11.2	22.3	10.9	U	10.9	21.8	10.9	U	10.9	21.9	11	U	11	22.1	10.9	U	10.9	21.8	10.8	U	10.8	21.6	10.8	U	10.8	21.5
PCBs (mg/kg)																					Result	Qualifier	MDL	RL					Result	Qualifier	MDL	RL
Aroclor-1016	12674-11-2	0	1	0	NA				NA				NA				NA				0.000641	U	0.000641	0.036	NA				0.000633	U	0.000633	0.0355
Aroclor-1221	11104-28-2	0	1	0.2	NA				NA				NA				NA				0.001110	U	0.00111	0.036	NA				0.001090	U	0.00109	0.0355
Aroclor-1232	11141-16-5	0.2	1	0.2	NA				NA				NA				NA				0.000847	U	0.000847	0.036	NA				0.000836	U	0.000836	0.0355
Aroclor-1242	53469-21-9	0	1	0	NA				NA				NA				NA				0.001220	U	0.00122	0.036	NA				0.001210	U	0.00121	0.0355
Aroclor-1248	12672-29-6	0	1	0.2	NA				NA				NA				NA				0.000844	U	0.000844	0.036	NA				0.000833	U	0.000833	0.0355
Aroclor-1254	11097-69-1	0	1	0.2	NA				NA				NA				NA				0.001280	U	0.00128	0.036	NA				0.001270	U	0.00127	0.0355
Aroclor-1260	11096-82-5	0	1	0.2	NA				NA				NA				NA				0.000949	U	0.000949	0.036	NA				0.000936	U	0.000936	0.0355
Aroclor-1262	37324-23-5	0.2	1.0	0.2	NA				NA				NA				NA				0.001390	U	0.00139	0.036	NA				0.001370	U	0.00137	0.0355
Aroclor-1268	11100-14-4	0	1	0.2	NA				NA				NA				NA				0.000727	U	0.000727	0.036	NA				0.000718	U	0.000718	0.0355
Total PCBs	1336-36-3	0	1	0	NA				NA				NA				NA				0.000641	U	0.000641	0.036	NA				0.000633	U	0.000633	0.0355
Pesticides (mg/kg)																					Result	Qualifier	MDL	RL					Result	Qualifier	MDL	RL
4,4'-DDD	72-54-8	3	13	4	NA				NA				NA				NA				0.000858	U	0.000858	0.0014	NA				0.000847	U	0.000847	0.0014
4,4'-DDE	72-55-9	2	9	18	NA				NA				NA				NA				0.001000	U	0.001	0.0014	NA				0.000990	U	0.00099	0.0014
4,4'-DDT	50-29-3	2.0	8	11	NA				NA				NA				NA				0.000681	U	0.000681	0.0014	NA							
4,4'-DDT [2C]	50-29-3	2	8	11	NA				NA				NA				NA								NA				0.00928		0.000586	0.0014
Aldrin	309-00-2	0	0	0.2	NA				NA				NA				NA				0.000880	U	0.00088	0.0014	NA				0.000868	U	0.000868	0.0014
alpha-BHC	319-84-6	0	1	0.002	NA				NA				NA				NA				0.000549	U	0.000549	0.0014	NA				0.000541	U	0.000541	0.0014
beta-BHC	319-85-7	0	2	0.002	NA				NA				NA				NA				0.001400	U	0.0014	0.0014	NA				0.001380	U	0.00138	0.0014
Chlordane	57-74-9	0.2	1.0	0.05	NA				NA				NA				NA				0.0103		0.000952	0.0014	NA				0.0136		0.000939	0.0014
delta-BHC	319-86-8	NA	NA	NA	NA				NA				NA				NA				0.001100	U	0.0011	0.0014	NA				0.001080	U	0.00108	0.0014
Dieldrin	60-57-1	0	0	0	NA				NA				NA				NA				0.000763	U	0.000763	0.0014	NA				0.000753	U	0.000753	0.0014
Endosulfan I	959-98-8	470	6,800	4	NA				NA				NA				NA				0.000981	U	0.000981	0.0014	NA				0.000968	U	0.000968	0.0014
Endosulfan II	33213-65-9	470	6,800	4	NA				NA				NA				NA				0.000771	U	0.000771	0.0014	NA				0.000761	U	0.000761	0.0014
Endosulfan sulfate	1031-07-8	470.0	6,800	2	NA				NA				NA				NA				0.000771	U	0.000771	0.0014	NA				0.000761	U	0.000761	0.0014
Endrin	72-20-8	23	340	1	NA				NA				NA				NA				0.000727	U	0.000727	0.0014	NA				0.000718	U	0.000718	0.0014
Endrin aldehyde	7421-93-4	NA	NA	NA	NA				NA				NA				NA				0.000605	U	0.000605	0.0014	NA				0.000597	U	0.000597	0.0014
Endrin ketone	53494-70-5	NA	NA	NA	NA				NA				NA				NA				0.000865	U	0.000865	0.0014	NA				0.000853	U	0.000853	0.0014
gamma-BHC (Lindane)	58-89-9	0	2	0.002	NA				NA				NA				NA				0.000648	U	0.000648	0.0014	NA				0.000639	U	0.000639	0.0014
Heptachlor	76-44-8	0.1	0.7	0.5	NA				NA				NA				NA				0.000829	U	0.000829	0.0014	NA				0.000818	U	0.000818	0.0014
Heptachlor Epoxide	1024-57-3	0	0	0.01	NA				NA				NA				NA				0.000887	U	0.000887	0.0014	NA				0.000875	U	0.000875	0.0014
Methoxychlor	72-43-5	390	5,700	160	NA				NA				NA				NA				0.000902	U	0.000902	0.0014	NA				0.000890	U	0.00089	0.0014
Toxaphene	8001-35-2	1	3	0	NA				NA				NA				NA				0.022000	U	0.022	0.072	NA				0.021700	U	0.0217	0.071

ATTACHMENT I

APL

AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

ANALYTICAL RESULTS

REDUCED DELIVERABLES FORMAT

APL Work Order Number: 8100452

Peak Environmental

Project: Ridgewood



Brian Wood
Laboratory Director

All Results meet the requirements of the National Environmental Laboratory Accreditation Conference and/or State specific certifications as applicable.

Report Date: Oct 17, 2018

1275 Bloomfield Ave., Bldg. 6, Fairfield, New Jersey 07004
(t) 973.227.0422 (f) 973.227.2813 (w) www.aquaprotechlabs.com

NELAC National Environmental Laboratory Accreditation Conference
NJDEP #07010 / NYDOH #11634 / PADEP #68-02903

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APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

Sample Summary

Work Order: 8100452

Client: Peak Environmental

Project: Ridgewood

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NTP-1A	8100452-01	Soil	10/10/2018 00:00	10/10/2018 15:40
NTP-2A	8100452-02	Soil	10/10/2018 00:00	10/10/2018 15:40
NTP-2B	8100452-03	Soil	10/10/2018 00:00	10/10/2018 15:40
NTP-3B	8100452-04	Soil	10/10/2018 00:00	10/10/2018 15:40
NTP-4B	8100452-05	Soil	10/10/2018 12:35	10/10/2018 15:40
NTP-6	8100452-06	Soil	10/10/2018 12:50	10/10/2018 15:40
NTP-7	8100452-07	Soil	10/10/2018 13:00	10/10/2018 15:40
STP-1B	8100452-08	Soil	10/10/2018 13:15	10/10/2018 15:40
STP-2B	8100452-09	Soil	10/10/2018 13:30	10/10/2018 15:40
STP-3B	8100452-10	Soil	10/10/2018 13:40	10/10/2018 15:40
STP-4A	8100452-11	Soil	10/10/2018 00:00	10/10/2018 15:40
STP-4B	8100452-12	Soil	10/10/2018 00:00	10/10/2018 15:40
STP-5	8100452-13	Soil	10/10/2018 00:00	10/10/2018 15:40
STP-7	8100452-14	Soil	10/10/2018 00:00	10/10/2018 15:40

PN: 8100452

APL 8100452

AQUA PRO-TECH LABORATORIES

www.aquaprotechlabs.com

1275 BLOOMFIELD AVENUE • BUILDING 6
FAIRFIELD, NEW JERSEY 07004

TEL: 973.227.0422
FAX: 973.227.2813

CHAIN OF CUSTODY

CLIENT: Peak	SEND REPORT TO: Joe Romeo
ADDRESS: 26 Kunkel Blvd. East Brunswick	ADDRESS: joe@peak-environmental.com
PHONE: 732-326-1010	PHONE:
E-MAIL: joe@peak-environmental.com	FAX:
PROJECT NAME: Ridgewood	SEND INVOICE TO: Kristen Van Dine
PROJECT MGR: Joe Romeo	ADDRESS: kristen@peak-environmental.com
PROJECT or PO #: 1594	SAMPLED BY: BJS

TURN-AROUND TIME

- ☐ APL STANDARD 2 weeks
- ☒ RUSH (choose one below)
- ☒ 24 hr. date & time required
- ☐ 48 hr. date & time required
- ☐ 72 hr. date & time required
- ☐ 1 week

REPORT FORMAT

- ☐ RESULTS ONLY
- ☒ NJ DEP REDUCED
- ☐ NJ DEP FULL
- ☐ STATE FORMS/E2 REPORTING

ELECTRONIC FORMAT

- ☒ EMAIL DELIVERY
- ☐ HAZSITE EDD
- ☒ EXCEL

SRP#

PWSID#

CONTAMINATION LEVEL

☐ HIGH ☐ MEDIUM ☐ LOW

MATRIX ABBREVIATIONS: D - DRINKING WATER G - GROUNDWATER W - WASTEWATER S - SOIL SL - SLUDGE C - CONCRETE L - LAKE

APL Lab ID#	Sample Source: Field ID	Date	Time	Sample Type GRAB	Sample Type COMP	MATRIX	No. of Bottles	Preservative	Analysis Requested
8100452-01	NTP-1A	10/10/18		X		S	5		TCL/TAL+30, EPH, VOCs
-02	NTP-2A						5		EPH, TAL metals, PAHs, VOCs
-03	NTP-2B						1		EPH, TAL metals, PAHs
-04	NTP-3B						1		" " "
-05	NTP-4B		12:35				5		" " " VOCs
-06	NTP-6		12:50				5		TCL/TAL+30, EPH, VOCs
-07	NTP-7		13:00				5		EPH, TAL metals, PAHs, VOCs
-08	STP-1B		13:15				5		" " " "
-09	STP-2B		13:30				1		EPH, TAL metals, PAHs

RELINQUISHED BY (Print) Ben Sweeney	DATE 10/10/18	RECEIVED BY (Print)	
Signature	Time 14:50	Signature	
RELINQUISHED BY (Print)	DATE 10/10/18	RECEIVED BY (Print)	
Signature	Time 3:40	Signature	
RELINQUISHED BY (Print)	DATE	RECEIVED BY (Print)	
Signature	Time	Signature	

COMMENTS/SPECIAL INSTRUCTIONS

Cooler Temp. upon receipt at lab 4.0

CERTIFICATIONS: NELAP (National Environmental Laboratory Accredation Program) NJDEP #07010 PADEP #68-02903 NYDOH #11634 CTPH #0233 US ARMY

By signing this Chain of Custody Agreement, customer expressly agrees to pay APL for all charges, reasonably incurred in connection with analysis and reporting for these samples

PN: 8100452

APL
AQUA PRO-TECH LABORATORIES
www.aquaprotechlabs.com

1275 BLOOMFIELD AVENUE • BUILDING 6
FAIRFIELD, NEW JERSEY 07004

TEL: 973.227.0422
FAX: 973.227.2813

CHAIN OF CUSTODY

PAGE 2 OF 2

CLIENT:	SEND REPORT TO:
ADDRESS:	ADDRESS:
See page 1	See page 1
PHONE:	PHONE:
E-MAIL:	FAX:
PROJECT NAME:	SEND INVOICE TO:
PROJECT MGR:	ADDRESS:
PROJECT or PO #:	SAMPLED BY:

TURN-AROUND TIME
- ☐ APL STANDARD 2 weeks
- ☒ RUSH (choose one below)
  - ☒ 24 hr. date & time required
  - ☐ 48 hr. date & time required
  - ☐ 72 hr. date & time required
  - ☐ 1 week

REPORT FORMAT
- ☐ RESULTS ONLY
- ☒ NJ DEP REDUCED
- ☐ NJ DEP FULL
- ☐ STATE FORMS/E2 REPORTING

PWSID#

ELECTRONIC FORMAT
- ☒ EMAIL DELIVERY
- ☐ HAZSITE EDD
- ☒ EXCEL

SRP#

CONTAMINATION LEVEL
☐ HIGH ☐ MEDIUM ☐ LOW

MATRIX ABBREVIATIONS: D - DRINKING WATER G - GROUNDWATER W - WASTEWATER S - SOIL SL - SLUDGE C - CONCRETE L - LAKE

APL Lab ID#	Sample Source: Field ID	Date	Time	Sample Type GRAB	Sample Type COMP	MATRIX	No. of Bottles	Preservative	Analysis Requested
8100452-10	STP-3B	10/10/18	13:40	X		S	1		EPH, TAL metals, PAHs
-11	STP-4A	↓		↓		↓	5		" " " , VOCs
-12	STP-4B						5		TCL/TAL+30, EPH, VOCs
-13	STP-5						1		EPH, TAL metals, PAHs
-14	STP-7	↓		↓		↓	5		TCL/TAL+30, EPH, VOCs

RELINQUISHED BY (Print) Benjamin Sweeney	DATE 10/10/18	RECEIVED BY (Print)	
Signature	Time 14:50	Signature	
RELINQUISHED BY (Print)	DATE 10/10/18	RECEIVED BY (Print)	
Signature	Time 3:40	Signature	
RELINQUISHED BY (Print)	DATE	RECEIVED BY (Print)	
Signature	Time	Signature	

COMMENTS/SPECIAL INSTRUCTIONS

Cooler Temp. upon receipt at lab 4.0

CERTIFICATIONS: NELAP (National Environmental Laboratory Accredation Program) NJDEP #07010 PADEP #68-02903 NYDOH #11634 CTPH #0233 US ARMY

By signing this Chain of Custody Agreement, customer expressly agrees to pay APL for all charges, reasonably incurred in connection with analysis and reporting for these samples

Extractable Petroleum Hydrocarbons:

Gas Chromatography/Flame Ionization Detector

New Jersey Department of Environmental Protection Site Remediation Program Extractable Petroleum Hydrocarbons Methodology (Version 3.0).
USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, Method 8015B or NJDEP Office of Quality Assurance Quantitation of Semi-Volatile Petroleum Products in Water, Soil and Sediment OQA-QAM-025, Revision 6.

Metals:

Inductively-Coupled Plasma Atomic Emission Spectrometry or Inductively-Coupled Plasma Mass Spectroscopy

Wastewater and Groundwater Samples: USEPA Methods for the Analysis of Water and Wastes, Method 200.7, Method 200.8.
Soil Samples: USEPA Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, Method 6010D.

Mercury:

Cold Vapor Atomic Absorption Spectrometry

Wastewater and Groundwater Samples: USEPA Methods for the Analysis of Water and Wastes, Method 245.1.
Soil Samples: USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, Method 7471B.

Volatile Organic Compounds:

Purge and Trap Gas Chromatography/Mass Spectroscopy

Drinking Water Samples: USEPA Methods for the Determination of Organic Compounds in Drinking Water, Method 524.2.
Wastewater Samples: USEPA Methods for the Analysis of Water and Wastes, Method 624.1, Method 8260C.
Soil and Groundwater Samples: USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, Method 8260C.

Semi-Volatile Organic Compounds:

Gas Chromatography/Mass Spectroscopy

Wastewater Samples: USEPA Methods for the Analysis of Water and Wastes, Method 625.1, Method 8270D.
Soil and Groundwater Samples: USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, Method 8270D.

Pesticides:

Gas Chromatography/Electron Capture Detector

Wastewater Samples: USEPA Methods for the Analysis of Water and Wastes, Method 608.3, Method 8081B.
Soil and Groundwater Samples: USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, Method 8081B.

Polychlorinated Biphenyls (PCBs):

Gas Chromatography/Electron Capture Detector

Wastewater Samples: USEPA Methods for the Analysis of Water and Wastes, Method 608.3, Method 8082A.
Soil and Groundwater Samples: USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, Method 8082A.

General Chemistry Methods:

Various general chemistry methods are taken from "Standard Methods for the Examination of Water and Wastewater, 19th Edition"*.*

Specific method citations can be found on the Analytical Results Summary page of this report listed under 'Method'.

** A complete list of APL's certified Methods are accessible on the Standards And Docs page of the Results Retrieval System

MDL:

Method Detection Limit. The minimum reportable concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The value is calculated from the analysis of seven replicates of a spike sample. On analytical reports this value is corrected for percent moisture and any concentration or dilution factors.

RL:

Reporting Limit. The Concentration of the lowest calibration standard that was included in the initial calibration of the instrument. On analytical reports this value is corrected for percent moisture and any concentration or dilution factors.

Concentration (Conc) / Result:

If the compound is detected, the measured concentration is reported. If this column is left blank, or contains a 'less than' (<) symbol, the compound was not detected.

Tentatively Identified Compound (TIC):

A TIC is a non-targeted compound, not included in the calibration, identified by a mass spectral library search.

Qualifiers:

- **U:** Indicates the compound was analyzed for but was not detected.
- **J:** Indicates an estimated value. All tentatively identified compounds (TICs) and results below the RL receive this qualifier.
- **B:** Indicates the analyte was found in the method blank as well as the sample.
- **N:** Used when reporting a specific tentatively identified compound.
- **E:** Indicates that the concentration of the compound exceeds the calibration range of the instrument. The results of a diluted analysis will also be reported. The results of the dilution should be used for those compounds exceeding the calibration range in the undiluted analysis.

DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

Laboratory Name: Aqua Pro-Tech Laboratories

Client: Peak Environmental

Project Location: Ridgewood

Project Number: 8100452

Laboratory Sample ID(s): 01-14 **Sampling Date(s):** October 10, 2018

List DKQP Methods Used: 8260C; 8270D; 8082A; 8081B; 7471B; 6010D; NJDEP-EPH-CAT2; SW 846 9014; Gravimetric

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	☑ Yes ☐ No
IA	Were the method specified handling, preservation, and holding time requirements met?	☑ Yes ☐ No
1B	EPH Method: Was the EPH method conducted without significant modifications (see Section 11.3 of respective DKQ methods)	☑ Yes ☐ No ☐ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (4±2° C)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	☐ Yes ☑ No
5	Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt? Were these reporting limits met?	☑ Yes ☐ No ☑ Yes ☐ No ☐ N/A
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	☑ Yes ☐ No
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No° (with the exception of question #7), additional information should be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for Data of Known Quality.°

QUALITY CONTROL
Conformance/Non-Conformance Summary

ANALYSIS: INORGANICS [6010D / 7471B / 9014]

Method 6010D:
The percent recoveries for several metals were outside of the QC limits for the matrix spike and matrix spike duplicate (low).
The blank spike met all QC criteria.

Methods 7471B / 9014:
All samples met the QC criteria.

ANALYSIS: EPH [NJDEP-EPH-CAT2]

All samples met the QC criteria.

ANALYSIS: PCBs [8082A]

All samples met the QC criteria.

ANALYSIS: PESTICIDES [8081B]

All samples met the QC criteria.

ANALYSIS: VOLATILES BY GC/MS [8260C]

The continuing calibrations (S8J1704-CCV1, S8J1706-CCV1) were outside of the QC limits for Carbon disulfide (low).

Batch B8J1111:
The percent recovery for Chlorodibromomethane was outside of the QC limits for the blank spike (low).

ANALYSIS: SEMI-VOLATILES BY GC/MS [8270D]

The percent recovery for Benzaldehyde was outside of the QC limits for the blank spike, matrix spike and matrix spike duplicate (low).
The percent recoveries for several other compounds were outside of the QC limits for the matrix spike and matrix spike duplicate (low). The blank spike met all QC criteria.

Reviewed By: _____ (SK) 10/18/2018
Brian Wood - Laboratory Director — Date

For any questions about your Quality Control, please call us at 973-227-0422.

Positive Results Only Summary

8100452-01 (Soil) Sample Name: **NTP-1A**

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	62.8		11.1	22.2	mg/kg dry	1	10/11/18 12:51

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	3290		0.0603	2.81	mg/kg dry	1	10/11/18 14:32
Barium	18.6		0.00108	0.562	mg/kg dry	1	10/11/18 14:32
Beryllium	0.138		0.000101	0.0281	mg/kg dry	1	10/11/18 14:32
Calcium	938		0.319	28.1	mg/kg dry	1	10/11/18 14:32
Chromium	5.14		0.00101	0.281	mg/kg dry	1	10/11/18 14:32
Cobalt	2.31		0.00122	0.225	mg/kg dry	1	10/11/18 14:32
Copper	8.71		0.00121	0.281	mg/kg dry	1	10/11/18 14:32
Iron	7190		0.127	5.62	mg/kg dry	1	10/11/18 14:32
Lead	23.8		0.00586	1.40	mg/kg dry	1	10/11/18 14:32
Magnesium	763		0.818	56.2	mg/kg dry	1	10/11/18 14:32
Manganese	125		0.000695	0.281	mg/kg dry	1	10/11/18 14:32
Nickel	4.33		0.00193	0.140	mg/kg dry	1	10/11/18 14:32
Potassium	212		2.64	112	mg/kg dry	1	10/11/18 14:32
Sodium	107		0.154	56.2	mg/kg dry	1	10/11/18 14:32
Vanadium	9.94		0.00973	0.562	mg/kg dry	1	10/11/18 14:32
Zinc	22.8		0.00258	0.843	mg/kg dry	1	10/11/18 14:32

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Benzo(a)anthracene	0.0995	J	0.0149	0.148	mg/kg dry	1	10/11/18 14:10
Benzo(a)pyrene	0.0887	J	0.0258	0.148	mg/kg dry	1	10/11/18 14:10
Benzo(b)fluoranthene	0.107	J	0.0208	0.148	mg/kg dry	1	10/11/18 14:10
Benzo(g,h,i)perylene	0.0702	J	0.0120	0.148	mg/kg dry	1	10/11/18 14:10
Benzo(k)fluoranthene	0.0788	J	0.0170	0.148	mg/kg dry	1	10/11/18 14:10
Chrysene	0.0909	J	0.0101	0.148	mg/kg dry	1	10/11/18 14:10
Fluoranthene	0.167		0.0139	0.148	mg/kg dry	1	10/11/18 14:10
Indeno(1,2,3-cd)pyrene	0.0610	J	0.0159	0.148	mg/kg dry	1	10/11/18 14:10
Phenanthrene	0.126	J	0.0195	0.148	mg/kg dry	1	10/11/18 14:10
Pyrene	0.158		0.0109	0.148	mg/kg dry	1	10/11/18 14:10

SW 846 8260C - Volatile Organics - GC/MS - VO+15

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Tetrachloroethene	0.00329		0.000121	0.00122	mg/kg dry	1	10/10/18 18:59

8100452-02 (Soil) Sample Name: **NTP-2A**

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	97.5		10.8	21.6	mg/kg dry	1	10/11/18 13:27

Positive Results Only Summary

8100452-02 (Soil) Sample Name: **NTP-2A**

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	3800		0.0563	2.62	mg/kg dry	1	10/11/18 14:34
Barium	21.4		0.00101	0.525	mg/kg dry	1	10/11/18 14:34
Beryllium	0.160		0.0000946	0.0262	mg/kg dry	1	10/11/18 14:34
Calcium	1260		0.298	26.2	mg/kg dry	1	10/11/18 14:34
Chromium	6.19		0.000943	0.262	mg/kg dry	1	10/11/18 14:34
Cobalt	2.83		0.00114	0.210	mg/kg dry	1	10/11/18 14:34
Copper	10.4		0.00113	0.262	mg/kg dry	1	10/11/18 14:34
Iron	8240		0.119	5.25	mg/kg dry	1	10/11/18 14:34
Lead	26.2		0.00548	1.31	mg/kg dry	1	10/11/18 14:34
Magnesium	952		0.764	52.5	mg/kg dry	1	10/11/18 14:34
Manganese	144		0.000649	0.262	mg/kg dry	1	10/11/18 14:34
Nickel	5.14		0.00180	0.131	mg/kg dry	1	10/11/18 14:34
Potassium	251		2.47	105	mg/kg dry	1	10/11/18 14:34
Sodium	116		0.144	52.5	mg/kg dry	1	10/11/18 14:34
Vanadium	11.2		0.00909	0.525	mg/kg dry	1	10/11/18 14:34
Zinc	30.2		0.00241	0.787	mg/kg dry	1	10/11/18 14:34

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Benzo(a)anthracene	0.0754	J	0.0145	0.144	mg/kg dry	1	10/11/18 14:38
Benzo(a)pyrene	0.0733	J	0.0251	0.144	mg/kg dry	1	10/11/18 14:38
Benzo(g,h,i)perylene	0.0911	J	0.0117	0.144	mg/kg dry	1	10/11/18 14:38
Benzo(k)fluoranthene	0.106	J	0.0165	0.144	mg/kg dry	1	10/11/18 14:38
Chrysene	0.0911	J	0.00985	0.144	mg/kg dry	1	10/11/18 14:38
Fluoranthene	0.120	J	0.0135	0.144	mg/kg dry	1	10/11/18 14:38
Phenanthrene	0.0544	J	0.0189	0.144	mg/kg dry	1	10/11/18 14:38
Pyrene	0.130	J	0.0106	0.144	mg/kg dry	1	10/11/18 14:38

SW 846 8260C - Volatile Organics - GC/MS - VO+15

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Tetrachloroethene	0.00240		0.0000870	0.000879	mg/kg dry	1	10/10/18 19:28

8100452-03 (Soil) Sample Name: **NTP-2B**

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	38.1		10.8	21.7	mg/kg dry	1	10/11/18 14:02

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	3620		0.0549	2.56	mg/kg dry	1	10/11/18 14:36
Barium	17.9		0.000986	0.511	mg/kg dry	1	10/11/18 14:36
Beryllium	0.184		0.0000922	0.0256	mg/kg dry	1	10/11/18 14:36

Positive Results Only Summary

8100452-03 (Soil) Sample Name: **NTP-2B**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Calcium	1100		0.290	25.6	mg/kg dry	1	10/11/18 14:36
Chromium	5.98		0.000919	0.256	mg/kg dry	1	10/11/18 14:36
Cobalt	2.49		0.00111	0.205	mg/kg dry	1	10/11/18 14:36
Copper	9.46		0.00110	0.256	mg/kg dry	1	10/11/18 14:36
Iron	8490		0.116	5.11	mg/kg dry	1	10/11/18 14:36
Lead	19.0		0.00534	1.28	mg/kg dry	1	10/11/18 14:36
Magnesium	885		0.744	51.1	mg/kg dry	1	10/11/18 14:36
Manganese	139		0.000633	0.256	mg/kg dry	1	10/11/18 14:36
Nickel	5.09		0.00176	0.128	mg/kg dry	1	10/11/18 14:36
Potassium	233		2.40	102	mg/kg dry	1	10/11/18 14:36
Sodium	93.8		0.140	51.1	mg/kg dry	1	10/11/18 14:36
Vanadium	12.0		0.00886	0.511	mg/kg dry	1	10/11/18 14:36
Zinc	24.5		0.00235	0.767	mg/kg dry	1	10/11/18 14:36

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Benzo(a)anthracene	0.0876	J	0.0145	0.144	mg/kg dry	1	10/11/18 15:07
Benzo(a)pyrene	0.0814	J	0.0251	0.144	mg/kg dry	1	10/11/18 15:07
Benzo(b)fluoranthene	0.0987	J	0.0203	0.144	mg/kg dry	1	10/11/18 15:07
Benzo(g,h,i)perylene	0.0663	J	0.0117	0.144	mg/kg dry	1	10/11/18 15:07
Benzo(k)fluoranthene	0.0460	J	0.0166	0.144	mg/kg dry	1	10/11/18 15:07
Chrysene	0.0730	J	0.00989	0.144	mg/kg dry	1	10/11/18 15:07
Fluoranthene	0.153		0.0135	0.144	mg/kg dry	1	10/11/18 15:07
Phenanthrene	0.114	J	0.0190	0.144	mg/kg dry	1	10/11/18 15:07
Pyrene	0.137	J	0.0106	0.144	mg/kg dry	1	10/11/18 15:07

8100452-04 (Soil) Sample Name: **NTP-3B**

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	4300		0.0571	2.66	mg/kg dry	1	10/11/18 14:38
Barium	24.3		0.00102	0.532	mg/kg dry	1	10/11/18 14:38
Beryllium	0.181		0.0000959	0.0266	mg/kg dry	1	10/11/18 14:38
Calcium	619		0.302	26.6	mg/kg dry	1	10/11/18 14:38
Chromium	7.12		0.000956	0.266	mg/kg dry	1	10/11/18 14:38
Cobalt	3.03		0.00116	0.213	mg/kg dry	1	10/11/18 14:38
Copper	7.89		0.00115	0.266	mg/kg dry	1	10/11/18 14:38
Iron	9220		0.120	5.32	mg/kg dry	1	10/11/18 14:38
Lead	6.72		0.00555	1.33	mg/kg dry	1	10/11/18 14:38
Magnesium	946		0.774	53.2	mg/kg dry	1	10/11/18 14:38
Manganese	165		0.000658	0.266	mg/kg dry	1	10/11/18 14:38
Nickel	5.13		0.00183	0.133	mg/kg dry	1	10/11/18 14:38

Positive Results Only Summary

8100452-04 (Soil) Sample Name: **NTP-3B**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Potassium	252		2.50	106	mg/kg dry	1	10/11/18 14:38
Sodium	136		0.146	53.2	mg/kg dry	1	10/11/18 14:38
Vanadium	13.4		0.00921	0.532	mg/kg dry	1	10/11/18 14:38
Zinc	20.3		0.00245	0.797	mg/kg dry	1	10/11/18 14:38

8100452-05 (Soil) Sample Name: **NTP-4B**

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	5500		0.0614	2.86	mg/kg dry	1	10/11/18 14:40
Barium	31.8		0.00110	0.572	mg/kg dry	1	10/11/18 14:40
Beryllium	0.203		0.000103	0.0286	mg/kg dry	1	10/11/18 14:40
Calcium	933		0.325	28.6	mg/kg dry	1	10/11/18 14:40
Chromium	11.2		0.00103	0.286	mg/kg dry	1	10/11/18 14:40
Cobalt	4.83		0.00125	0.229	mg/kg dry	1	10/11/18 14:40
Copper	9.21		0.00124	0.286	mg/kg dry	1	10/11/18 14:40
Iron	12100		0.129	5.72	mg/kg dry	1	10/11/18 14:40
Lead	5.21		0.00597	1.43	mg/kg dry	1	10/11/18 14:40
Magnesium	1750		0.833	57.2	mg/kg dry	1	10/11/18 14:40
Manganese	229		0.000708	0.286	mg/kg dry	1	10/11/18 14:40
Nickel	7.75		0.00197	0.143	mg/kg dry	1	10/11/18 14:40
Potassium	261		2.69	114	mg/kg dry	1	10/11/18 14:40
Sodium	335		0.157	57.2	mg/kg dry	1	10/11/18 14:40
Vanadium	18.9		0.00991	0.572	mg/kg dry	1	10/11/18 14:40
Zinc	17.6		0.00263	0.858	mg/kg dry	1	10/11/18 14:40

8100452-06 (Soil) Sample Name: **NTP-6**

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	6670		0.0631	2.94	mg/kg dry	1	10/11/18 14:42
Arsenic	1.71		0.0141	1.47	mg/kg dry	1	10/11/18 14:42
Barium	29.1		0.00113	0.588	mg/kg dry	1	10/11/18 14:42
Beryllium	0.282		0.000106	0.0294	mg/kg dry	1	10/11/18 14:42
Calcium	1140		0.334	29.4	mg/kg dry	1	10/11/18 14:42
Chromium	9.79		0.00106	0.294	mg/kg dry	1	10/11/18 14:42
Cobalt	3.59		0.00128	0.235	mg/kg dry	1	10/11/18 14:42
Copper	10.1		0.00127	0.294	mg/kg dry	1	10/11/18 14:42
Iron	12300		0.133	5.88	mg/kg dry	1	10/11/18 14:42
Lead	7.82		0.00614	1.47	mg/kg dry	1	10/11/18 14:42
Magnesium	1290		0.856	58.8	mg/kg dry	1	10/11/18 14:42
Manganese	176		0.000728	0.294	mg/kg dry	1	10/11/18 14:42

Positive Results Only Summary

8100452-06 (Soil) Sample Name: **NTP-6**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Nickel	6.47		0.00202	0.147	mg/kg dry	1	10/11/18 14:42
Potassium	361		2.76	118	mg/kg dry	1	10/11/18 14:42
Sodium	132		0.161	58.8	mg/kg dry	1	10/11/18 14:42
Vanadium	17.4		0.0102	0.588	mg/kg dry	1	10/11/18 14:42
Zinc	20.9		0.00270	0.882	mg/kg dry	1	10/11/18 14:42

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Dimethylphthalate	0.0721	J	0.00942	0.152	mg/kg dry	1	10/11/18 16:32

8100452-07 (Soil) Sample Name: **NTP-7**

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	65.8		10.9	21.9	mg/kg dry	1	10/11/18 16:35

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	4450		0.0582	2.71	mg/kg dry	1	10/11/18 14:44
Barium	21.4		0.00104	0.542	mg/kg dry	1	10/11/18 14:44
Beryllium	0.160		0.0000978	0.0271	mg/kg dry	1	10/11/18 14:44
Calcium	1080		0.308	27.1	mg/kg dry	1	10/11/18 14:44
Chromium	6.67		0.000974	0.271	mg/kg dry	1	10/11/18 14:44
Cobalt	3.01		0.00118	0.217	mg/kg dry	1	10/11/18 14:44
Copper	8.67		0.00117	0.271	mg/kg dry	1	10/11/18 14:44
Iron	8450		0.122	5.42	mg/kg dry	1	10/11/18 14:44
Lead	11.3		0.00566	1.35	mg/kg dry	1	10/11/18 14:44
Magnesium	1090		0.789	54.2	mg/kg dry	1	10/11/18 14:44
Manganese	145		0.000671	0.271	mg/kg dry	1	10/11/18 14:44
Nickel	5.23		0.00186	0.135	mg/kg dry	1	10/11/18 14:44
Potassium	230		2.55	108	mg/kg dry	1	10/11/18 14:44
Sodium	160		0.148	54.2	mg/kg dry	1	10/11/18 14:44
Vanadium	12.8		0.00939	0.542	mg/kg dry	1	10/11/18 14:44
Zinc	21.1		0.00249	0.813	mg/kg dry	1	10/11/18 14:44

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Benzo(a)anthracene	0.133	J	0.0147	0.146	mg/kg dry	1	10/11/18 17:01
Benzo(a)pyrene	0.105	J	0.0254	0.146	mg/kg dry	1	10/11/18 17:01
Benzo(b)fluoranthene	0.169		0.0205	0.146	mg/kg dry	1	10/11/18 17:01
Benzo(g,h,i)perylene	0.124	J	0.0118	0.146	mg/kg dry	1	10/11/18 17:01
Benzo(k)fluoranthene	0.106	J	0.0167	0.146	mg/kg dry	1	10/11/18 17:01
Chrysene	0.134	J	0.00998	0.146	mg/kg dry	1	10/11/18 17:01

Positive Results Only Summary

8100452-07 (Soil) Sample Name: **NTP-7**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Fluoranthene	0.193		0.0137	0.146	mg/kg dry	1	10/11/18 17:01
Phenanthrene	0.0964	J	0.0192	0.146	mg/kg dry	1	10/11/18 17:01
Pyrene	0.184		0.0107	0.146	mg/kg dry	1	10/11/18 17:01

8100452-08 (Soil) Sample Name: **STP-1B**

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	5040		0.0576	2.68	mg/kg dry	1	10/11/18 14:46
Barium	20.2		0.00103	0.537	mg/kg dry	1	10/11/18 14:46
Beryllium	0.191		0.0000968	0.0268	mg/kg dry	1	10/11/18 14:46
Calcium	453		0.305	26.8	mg/kg dry	1	10/11/18 14:46
Chromium	7.08		0.000965	0.268	mg/kg dry	1	10/11/18 14:46
Cobalt	3.03		0.00117	0.215	mg/kg dry	1	10/11/18 14:46
Copper	7.22		0.00116	0.268	mg/kg dry	1	10/11/18 14:46
Iron	9500		0.121	5.37	mg/kg dry	1	10/11/18 14:46
Lead	4.88		0.00560	1.34	mg/kg dry	1	10/11/18 14:46
Magnesium	966		0.781	53.7	mg/kg dry	1	10/11/18 14:46
Manganese	144		0.000664	0.268	mg/kg dry	1	10/11/18 14:46
Nickel	5.18		0.00185	0.134	mg/kg dry	1	10/11/18 14:46
Potassium	260		2.52	107	mg/kg dry	1	10/11/18 14:46
Sodium	72.2		0.147	53.7	mg/kg dry	1	10/11/18 14:46
Vanadium	13.0		0.00929	0.537	mg/kg dry	1	10/11/18 14:46
Zinc	23.5		0.00247	0.805	mg/kg dry	1	10/11/18 14:46

8100452-09 (Soil) Sample Name: **STP-2B**

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	5700		0.0631	2.94	mg/kg dry	1	10/11/18 14:48
Barium	23.4		0.00113	0.587	mg/kg dry	1	10/11/18 14:48
Beryllium	0.223		0.000106	0.0294	mg/kg dry	1	10/11/18 14:48
Calcium	473		0.334	29.4	mg/kg dry	1	10/11/18 14:48
Chromium	7.63		0.00106	0.294	mg/kg dry	1	10/11/18 14:48
Cobalt	3.23		0.00128	0.235	mg/kg dry	1	10/11/18 14:48
Copper	8.57		0.00127	0.294	mg/kg dry	1	10/11/18 14:48
Iron	11100		0.133	5.87	mg/kg dry	1	10/11/18 14:48
Lead	6.05		0.00613	1.47	mg/kg dry	1	10/11/18 14:48
Magnesium	1070		0.855	58.7	mg/kg dry	1	10/11/18 14:48
Manganese	187		0.000727	0.294	mg/kg dry	1	10/11/18 14:48
Nickel	5.76		0.00202	0.147	mg/kg dry	1	10/11/18 14:48
Potassium	271		2.76	117	mg/kg dry	1	10/11/18 14:48

Positive Results Only Summary

8100452-09 (Soil) Sample Name: **STP-2B**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Sodium	74.3		0.161	58.7	mg/kg dry	1	10/11/18 14:48
Vanadium	13.9		0.0102	0.587	mg/kg dry	1	10/11/18 14:48
Zinc	38.2		0.00270	0.881	mg/kg dry	1	10/11/18 14:48

8100452-10 (Soil) Sample Name: **STP-3B**

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	0.0562		0.0235	0.0478	mg/kg dry	1	10/11/18 12:53

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	4900		0.0556	2.59	mg/kg dry	1	10/11/18 14:50
Arsenic	1.65		0.0124	1.29	mg/kg dry	1	10/11/18 14:50
Barium	19.4		0.000998	0.518	mg/kg dry	1	10/11/18 14:50
Beryllium	0.184		0.0000934	0.0259	mg/kg dry	1	10/11/18 14:50
Calcium	463		0.294	25.9	mg/kg dry	1	10/11/18 14:50
Chromium	6.68		0.000931	0.259	mg/kg dry	1	10/11/18 14:50
Cobalt	2.90		0.00113	0.207	mg/kg dry	1	10/11/18 14:50
Copper	7.66		0.00112	0.259	mg/kg dry	1	10/11/18 14:50
Iron	9550		0.117	5.18	mg/kg dry	1	10/11/18 14:50
Lead	6.01		0.00541	1.29	mg/kg dry	1	10/11/18 14:50
Magnesium	977		0.754	51.8	mg/kg dry	1	10/11/18 14:50
Manganese	163		0.000641	0.259	mg/kg dry	1	10/11/18 14:50
Nickel	5.18		0.00178	0.129	mg/kg dry	1	10/11/18 14:50
Potassium	272		2.43	104	mg/kg dry	1	10/11/18 14:50
Sodium	74.0		0.142	51.8	mg/kg dry	1	10/11/18 14:50
Vanadium	12.7		0.00897	0.518	mg/kg dry	1	10/11/18 14:50
Zinc	21.0		0.00238	0.777	mg/kg dry	1	10/11/18 14:50

8100452-11 (Soil) Sample Name: **STP-4A**

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	6100		0.0608	2.83	mg/kg dry	1	10/11/18 15:31
Barium	23.3		0.00109	0.566	mg/kg dry	1	10/11/18 15:31
Beryllium	0.215		0.000102	0.0283	mg/kg dry	1	10/11/18 15:31
Calcium	634		0.321	28.3	mg/kg dry	1	10/11/18 15:31
Chromium	8.26		0.00102	0.283	mg/kg dry	1	10/11/18 15:31
Cobalt	3.51		0.00123	0.226	mg/kg dry	1	10/11/18 15:31
Copper	9.17		0.00122	0.283	mg/kg dry	1	10/11/18 15:31
Iron	10900		0.128	5.66	mg/kg dry	1	10/11/18 15:31

Positive Results Only Summary

8100452-11 (Soil) Sample Name: **STP-4A**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Lead	10.6		0.00591	1.41	mg/kg dry	1	10/11/18 15:31
Magnesium	1110		0.824	56.6	mg/kg dry	1	10/11/18 15:31
Manganese	209		0.000701	0.283	mg/kg dry	1	10/11/18 15:31
Nickel	6.25		0.00195	0.141	mg/kg dry	1	10/11/18 15:31
Potassium	286		2.66	113	mg/kg dry	1	10/11/18 15:31
Sodium	85.2		0.155	56.6	mg/kg dry	1	10/11/18 15:31
Vanadium	15.4		0.00980	0.566	mg/kg dry	1	10/11/18 15:31
Zinc	20.4		0.00260	0.849	mg/kg dry	1	10/11/18 15:31

8100452-12 (Soil) Sample Name: **STP-4B**

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	5610		0.0580	2.70	mg/kg dry	1	10/11/18 15:33
Barium	24.9		0.00104	0.540	mg/kg dry	1	10/11/18 15:33
Beryllium	0.211		0.0000974	0.0270	mg/kg dry	1	10/11/18 15:33
Calcium	899		0.307	27.0	mg/kg dry	1	10/11/18 15:33
Chromium	7.75		0.000971	0.270	mg/kg dry	1	10/11/18 15:33
Cobalt	3.46		0.00118	0.216	mg/kg dry	1	10/11/18 15:33
Copper	8.07		0.00117	0.270	mg/kg dry	1	10/11/18 15:33
Iron	10600		0.122	5.40	mg/kg dry	1	10/11/18 15:33
Lead	8.26		0.00564	1.35	mg/kg dry	1	10/11/18 15:33
Magnesium	1220		0.786	54.0	mg/kg dry	1	10/11/18 15:33
Manganese	261		0.000668	0.270	mg/kg dry	1	10/11/18 15:33
Nickel	6.18		0.00186	0.135	mg/kg dry	1	10/11/18 15:33
Potassium	283		2.54	108	mg/kg dry	1	10/11/18 15:33
Sodium	82.6		0.148	54.0	mg/kg dry	1	10/11/18 15:33
Vanadium	14.7		0.00935	0.540	mg/kg dry	1	10/11/18 15:33
Zinc	23.2		0.00248	0.810	mg/kg dry	1	10/11/18 15:33

SW 846 8081B - Pesticides

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Chlordane	0.0103		0.000952	0.00142	mg/kg dry	1	10/11/18 16:51

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Dimethylphthalate	0.0632	J	0.00901	0.145	mg/kg dry	1	10/11/18 15:57

8100452-13 (Soil) Sample Name: **STP-5**

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed

Positive Results Only Summary

8100452-13 (Soil) Sample Name: **STP-5**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	6860		0.0617	2.87	mg/kg dry	1	10/11/18 15:37
Arsenic	3.01		0.0138	1.44	mg/kg dry	1	10/11/18 15:37
Barium	23.0		0.00111	0.574	mg/kg dry	1	10/11/18 15:37
Beryllium	0.256		0.000104	0.0287	mg/kg dry	1	10/11/18 15:37
Calcium	310		0.326	28.7	mg/kg dry	1	10/11/18 15:37
Chromium	8.30		0.00103	0.287	mg/kg dry	1	10/11/18 15:37
Cobalt	4.74		0.00125	0.230	mg/kg dry	1	10/11/18 15:37
Copper	9.68		0.00124	0.287	mg/kg dry	1	10/11/18 15:37
Iron	15100		0.130	5.74	mg/kg dry	1	10/11/18 15:37
Lead	5.25		0.00599	1.44	mg/kg dry	1	10/11/18 15:37
Magnesium	1150		0.836	57.4	mg/kg dry	1	10/11/18 15:37
Manganese	333		0.000711	0.287	mg/kg dry	1	10/11/18 15:37
Nickel	7.29		0.00198	0.144	mg/kg dry	1	10/11/18 15:37
Potassium	241		2.70	115	mg/kg dry	1	10/11/18 15:37
Vanadium	17.3		0.00995	0.574	mg/kg dry	1	10/11/18 15:37
Zinc	39.9		0.00264	0.861	mg/kg dry	1	10/11/18 15:37

8100452-14 (Soil) Sample Name: **STP-7**

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	4650		0.0545	2.54	mg/kg dry	1	10/11/18 15:39
Arsenic	1.49		0.0122	1.27	mg/kg dry	1	10/11/18 15:39
Barium	18.5		0.000979	0.508	mg/kg dry	1	10/11/18 15:39
Beryllium	0.178		0.0000916	0.0254	mg/kg dry	1	10/11/18 15:39
Calcium	294		0.288	25.4	mg/kg dry	1	10/11/18 15:39
Chromium	6.14		0.000913	0.254	mg/kg dry	1	10/11/18 15:39
Cobalt	2.97		0.00111	0.203	mg/kg dry	1	10/11/18 15:39
Copper	6.73		0.00110	0.254	mg/kg dry	1	10/11/18 15:39
Iron	9110		0.115	5.08	mg/kg dry	1	10/11/18 15:39
Lead	4.31		0.00530	1.27	mg/kg dry	1	10/11/18 15:39
Magnesium	910		0.739	50.8	mg/kg dry	1	10/11/18 15:39
Manganese	240		0.000628	0.254	mg/kg dry	1	10/11/18 15:39
Nickel	5.05		0.00175	0.127	mg/kg dry	1	10/11/18 15:39
Potassium	210		2.39	102	mg/kg dry	1	10/11/18 15:39
Sodium	52.0		0.139	50.8	mg/kg dry	1	10/11/18 15:39
Vanadium	11.8		0.00879	0.508	mg/kg dry	1	10/11/18 15:39
Zinc	24.1		0.00233	0.761	mg/kg dry	1	10/11/18 15:39

SW 846 8081B - Pesticides

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
4,4'-DDT [2C]	0.00928		0.000586	0.00140	mg/kg dry	1	10/11/18 17:14

Positive Results Only Summary

8100452-14 (Soil) Sample Name: **STP-7**

SW 846 8081B - Pesticides (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Chlordane	0.0136		0.000939	0.00140	mg/kg dry	1	10/11/18 17:14

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-01 (Soil) Sample Name: **NTP-1A** Collected: **10/10/2018 12:00:00AM**

SW 846 8082A - PCBs

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aroclor-1016	ND	U	0.000654	0.0367	mg/kg	1	10/11/18 14:00
Aroclor-1221	ND	U	0.00113	0.0367	mg/kg	1	10/11/18 14:00
Aroclor-1232	ND	U	0.000864	0.0367	mg/kg	1	10/11/18 14:00
Aroclor-1242	ND	U	0.00125	0.0367	mg/kg	1	10/11/18 14:00
Aroclor-1248	ND	U	0.000861	0.0367	mg/kg	1	10/11/18 14:00
Aroclor-1254	ND	U	0.00131	0.0367	mg/kg	1	10/11/18 14:00
Aroclor-1260	ND	U	0.000968	0.0367	mg/kg	1	10/11/18 14:00
Aroclor-1262	ND	U	0.00142	0.0367	mg/kg	1	10/11/18 14:00
Aroclor-1268	ND	U	0.000742	0.0367	mg/kg	1	10/11/18 14:00
Total PCBs	ND	U	0.000654	0.0367	mg/kg	1	10/11/18 14:00

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	**62.8**		**11.1**	**22.2**	**mg/kg**	**1**	**10/11/18 12:51**

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	ND		0.0267	0.0544	mg/kg	1	10/11/18 12:17

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	**3290**		**0.0603**	**2.81**	**mg/kg**	**1**	**10/11/18 14:32**
Antimony	ND		0.00593	1.40	mg/kg	1	10/11/18 14:32
Arsenic	ND		0.0135	1.40	mg/kg	1	10/11/18 14:32
Barium	**18.6**		**0.00108**	**0.562**	**mg/kg**	**1**	**10/11/18 14:32**
Beryllium	**0.138**		**0.000101**	**0.0281**	**mg/kg**	**1**	**10/11/18 14:32**
Cadmium	ND		0.000957	0.281	mg/kg	1	10/11/18 14:32
Calcium	**938**		**0.319**	**28.1**	**mg/kg**	**1**	**10/11/18 14:32**
Chromium	**5.14**		**0.00101**	**0.281**	**mg/kg**	**1**	**10/11/18 14:32**
Cobalt	**2.31**		**0.00122**	**0.225**	**mg/kg**	**1**	**10/11/18 14:32**
Copper	**8.71**		**0.00121**	**0.281**	**mg/kg**	**1**	**10/11/18 14:32**
Iron	**7190**		**0.127**	**5.62**	**mg/kg**	**1**	**10/11/18 14:32**
Lead	**23.8**		**0.00586**	**1.40**	**mg/kg**	**1**	**10/11/18 14:32**
Magnesium	**763**		**0.818**	**56.2**	**mg/kg**	**1**	**10/11/18 14:32**
Manganese	**125**		**0.000695**	**0.281**	**mg/kg**	**1**	**10/11/18 14:32**
Nickel	**4.33**		**0.00193**	**0.140**	**mg/kg**	**1**	**10/11/18 14:32**
Potassium	**212**		**2.64**	**112**	**mg/kg**	**1**	**10/11/18 14:32**
Selenium	ND		0.0121	1.40	mg/kg	1	10/11/18 14:32
Silver	ND		0.00335	0.562	mg/kg	1	10/11/18 14:32

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-01 (Soil) Sample Name: **NTP-1A** Collected: **10/10/2018 12:00:00AM**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Sodium	**107**		**0.154**	**56.2**	**mg/kg**	**1**	**10/11/18 14:32**
Thallium	ND		0.00779	1.40	mg/kg	1	10/11/18 14:32
Vanadium	**9.94**		**0.00973**	**0.562**	**mg/kg**	**1**	**10/11/18 14:32**
Zinc	**22.8**		**0.00258**	**0.843**	**mg/kg**	**1**	**10/11/18 14:32**

SW 846 8081B - Pesticides

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
4,4'-DDD	ND	U	0.000875	0.00145	mg/kg	1	10/11/18 16:06
4,4'-DDE	ND	U	0.00102	0.00145	mg/kg	1	10/11/18 16:06
4,4'-DDT	ND	U	0.000694	0.00145	mg/kg	1	10/11/18 16:06
Aldrin	ND	U	0.000898	0.00145	mg/kg	1	10/11/18 16:06
alpha-BHC	ND	U	0.000559	0.00145	mg/kg	1	10/11/18 16:06
beta-BHC	ND	U	0.00142	0.00145	mg/kg	1	10/11/18 16:06
Chlordane	ND	U	0.000971	0.00145	mg/kg	1	10/11/18 16:06
delta-BHC	ND	U	0.00112	0.00145	mg/kg	1	10/11/18 16:06
Dieldrin	ND	U	0.000779	0.00145	mg/kg	1	10/11/18 16:06
Endosulfan I	ND	U	0.00100	0.00145	mg/kg	1	10/11/18 16:06
Endosulfan II	ND	U	0.000786	0.00145	mg/kg	1	10/11/18 16:06
Endosulfan sulfate	ND	U	0.000786	0.00145	mg/kg	1	10/11/18 16:06
Endrin	ND	U	0.000742	0.00145	mg/kg	1	10/11/18 16:06
Endrin aldehyde	ND	U	0.000617	0.00145	mg/kg	1	10/11/18 16:06
Endrin ketone	ND	U	0.000882	0.00145	mg/kg	1	10/11/18 16:06
gamma-BHC (Lindane)	ND	U	0.000661	0.00145	mg/kg	1	10/11/18 16:06
Heptachlor	ND	U	0.000845	0.00145	mg/kg	1	10/11/18 16:06
Heptachlor Epoxide	ND	U	0.000904	0.00145	mg/kg	1	10/11/18 16:06
Methoxychlor	ND	U	0.000920	0.00145	mg/kg	1	10/11/18 16:06
Toxaphene	ND	U	0.0225	0.0734	mg/kg	1	10/11/18 16:06

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1-Methylnaphthalene	ND	U	0.0355	0.222	mg/kg	1	10/11/18 14:10
2,3,4,6-Tetrachlorophenol	ND	U	0.0228	0.148	mg/kg	1	10/11/18 14:10
2,4,5-Trichlorophenol	ND	U	0.0201	0.148	mg/kg	1	10/11/18 14:10
2,4,6-Trichlorophenol	ND	U	0.00927	0.148	mg/kg	1	10/11/18 14:10
2,4-Dichlorophenol	ND	U	0.0149	0.148	mg/kg	1	10/11/18 14:10
2,4-Dimethylphenol	ND	U	0.0146	0.148	mg/kg	1	10/11/18 14:10
2,4-Dinitrophenol	ND	U	0.0214	0.742	mg/kg	1	10/11/18 14:10
2,4-Dinitrotoluene	ND	U	0.0158	0.148	mg/kg	1	10/11/18 14:10
2,6-Dinitrotoluene	ND	U	0.0354	0.148	mg/kg	1	10/11/18 14:10

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-01 (Soil) Sample Name: **NTP-1A** Collected: **10/10/2018 12:00:00AM**

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
2-Chloronaphthalene	ND	U	0.0170	0.148	mg/kg	1	10/11/18 14:10
2-Chlorophenol	ND	U	0.0196	0.148	mg/kg	1	10/11/18 14:10
2-Methylnaphthalene	ND	U	0.0355	0.222	mg/kg	1	10/11/18 14:10
2-Methylphenol	ND	U	0.0293	0.148	mg/kg	1	10/11/18 14:10
2-Nitroaniline	ND	U	0.0119	0.148	mg/kg	1	10/11/18 14:10
2-Nitrophenol	ND	U	0.0165	0.148	mg/kg	1	10/11/18 14:10
3,3'-Dichlorobenzidine	ND	U	0.0156	0.148	mg/kg	1	10/11/18 14:10
3+4-Methylphenol	ND	U	0.0271	0.148	mg/kg	1	10/11/18 14:10
3-Nitroaniline	ND	U	0.0275	0.148	mg/kg	1	10/11/18 14:10
4,6-Dinitro-2-methylphenol	ND	U	0.0279	0.370	mg/kg	1	10/11/18 14:10
4-Bromophenyl-phenyl ether	ND	U	0.0211	0.148	mg/kg	1	10/11/18 14:10
4-Chloro-3-methylphenol	ND	U	0.0234	0.148	mg/kg	1	10/11/18 14:10
4-Chloroaniline	ND	U	0.00518	0.148	mg/kg	1	10/11/18 14:10
4-Chlorophenyl phenyl ether	ND	U	0.00800	0.148	mg/kg	1	10/11/18 14:10
4-Nitroaniline	ND	U	0.0741	0.148	mg/kg	1	10/11/18 14:10
4-Nitrophenol	ND	U	0.00948	0.148	mg/kg	1	10/11/18 14:10
Acenaphthene	ND	U	0.00844	0.148	mg/kg	1	10/11/18 14:10
Acenaphthylene	ND	U	0.00515	0.148	mg/kg	1	10/11/18 14:10
Acetophenone	ND	U	0.0147	0.148	mg/kg	1	10/11/18 14:10
Anthracene	ND	U	0.0215	0.148	mg/kg	1	10/11/18 14:10
Atrazine	ND	U	0.0139	0.148	mg/kg	1	10/11/18 14:10
Benzaldehyde	ND	U	0.0455	0.148	mg/kg	1	10/11/18 14:10
Benzo(a)anthracene	**0.0995**	**J**	**0.0149**	**0.148**	**mg/kg**	**1**	**10/11/18 14:10**
Benzo(a)pyrene	**0.0887**	**J**	**0.0258**	**0.148**	**mg/kg**	**1**	**10/11/18 14:10**
Benzo(b)fluoranthene	**0.107**	**J**	**0.0208**	**0.148**	**mg/kg**	**1**	**10/11/18 14:10**
Benzo(g,h,i)perylene	**0.0702**	**J**	**0.0120**	**0.148**	**mg/kg**	**1**	**10/11/18 14:10**
Benzo(k)fluoranthene	**0.0788**	**J**	**0.0170**	**0.148**	**mg/kg**	**1**	**10/11/18 14:10**
Biphenyl	ND	U	0.0130	0.148	mg/kg	1	10/11/18 14:10
bis(2-chloroethoxy)methane	ND	U	0.0205	0.148	mg/kg	1	10/11/18 14:10
bis(2-chloroethyl)ether	ND	U	0.0162	0.148	mg/kg	1	10/11/18 14:10
bis(2-chloroisopropyl)ether	ND	U	0.0533	0.148	mg/kg	1	10/11/18 14:10
bis(2-ethylhexyl)phthalate	ND	U	0.0296	0.148	mg/kg	1	10/11/18 14:10
Butylbenzylphthalate	ND	U	0.0135	0.148	mg/kg	1	10/11/18 14:10
Caprolactam	ND	U	0.0191	0.148	mg/kg	1	10/11/18 14:10
Carbazole	ND	U	0.0285	0.370	mg/kg	1	10/11/18 14:10
Chrysene	**0.0909**	**J**	**0.0101**	**0.148**	**mg/kg**	**1**	**10/11/18 14:10**
Dibenzo(a,h)anthracene	ND	U	0.0147	0.148	mg/kg	1	10/11/18 14:10
Dibenzofuran	ND	U	0.00882	0.148	mg/kg	1	10/11/18 14:10
Diethylphthalate	ND	U	0.0287	0.148	mg/kg	1	10/11/18 14:10

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-01 (Soil) Sample Name: **NTP-1A** Collected: **10/10/2018 12:00:00AM**

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Dimethylphthalate	ND	U	0.00919	0.148	mg/kg	1	10/11/18 14:10
Di-n-butylphthalate	ND	U	0.0605	0.148	mg/kg	1	10/11/18 14:10
Di-n-octylphthalate	ND	U	0.0304	0.148	mg/kg	1	10/11/18 14:10
Fluoranthene	**0.167**		**0.0139**	**0.148**	**mg/kg**	**1**	**10/11/18 14:10**
Fluorene	ND	U	0.0123	0.148	mg/kg	1	10/11/18 14:10
Hexachlorobenzene	ND	U	0.0194	0.148	mg/kg	1	10/11/18 14:10
Hexachlorobutadiene	ND	U	0.0711	0.148	mg/kg	1	10/11/18 14:10
Hexachlorocyclopentadiene	ND	U	0.0617	0.370	mg/kg	1	10/11/18 14:10
Hexachloroethane	ND	U	0.0162	0.148	mg/kg	1	10/11/18 14:10
Indeno(1,2,3-cd)pyrene	**0.0610**	**J**	**0.0159**	**0.148**	**mg/kg**	**1**	**10/11/18 14:10**
Isophorone	ND	U	0.00970	0.148	mg/kg	1	10/11/18 14:10
Naphthalene	ND	U	0.0110	0.148	mg/kg	1	10/11/18 14:10
Nitrobenzene	ND	U	0.0251	0.148	mg/kg	1	10/11/18 14:10
n-Nitroso-di-n-propylamine	ND	U	0.00793	0.148	mg/kg	1	10/11/18 14:10
n-Nitrosodiphenylamine	ND	U	0.0316	0.148	mg/kg	1	10/11/18 14:10
Phenanthrene	**0.126**	**J**	**0.0195**	**0.148**	**mg/kg**	**1**	**10/11/18 14:10**
Phenol	ND	U	0.0120	0.148	mg/kg	1	10/11/18 14:10
Pyrene	**0.158**		**0.0109**	**0.148**	**mg/kg**	**1**	**10/11/18 14:10**

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25 - TIC

Tentitively Identified Compound	Est Conc	RT	Qual	Units	Dilution	Analyzed

No TICs Found

SW 846 8260C - Volatile Organics - GC/MS - VO+15

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1,1,1-Trichloroethane	ND	U	0.000178	0.00122	mg/kg	1	10/10/18 18:59
1,1,2,2-Tetrachloroethane	ND	U	0.000169	0.00122	mg/kg	1	10/10/18 18:59
1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	U	0.000523	0.00122	mg/kg	1	10/10/18 18:59
1,1,2-Trichloroethane	ND	U	0.000206	0.00122	mg/kg	1	10/10/18 18:59
1,1-Dichloroethane	ND	U	0.000178	0.00122	mg/kg	1	10/10/18 18:59
1,1-Dichloroethene	ND	U	0.000226	0.00122	mg/kg	1	10/10/18 18:59
1,2,3-Trichlorobenzene	ND	U	0.000264	0.00122	mg/kg	1	10/10/18 18:59
1,2,4-Trichlorobenzene	ND	U	0.000326	0.00122	mg/kg	1	10/10/18 18:59
1,2,4-Trimethylbenzene	ND	U	0.000169	0.00122	mg/kg	1	10/10/18 18:59
1,2-Dibromo-3-chloropropane	ND	U	0.000298	0.00122	mg/kg	1	10/10/18 18:59
1,2-Dibromoethane	ND	U	0.000154	0.00122	mg/kg	1	10/10/18 18:59
1,2-Dichlorobenzene	ND	U	0.000216	0.00122	mg/kg	1	10/10/18 18:59
1,2-Dichloroethane	ND	U	0.000172	0.00122	mg/kg	1	10/10/18 18:59

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-01 (Soil) Sample Name: **NTP-1A** Collected: **10/10/2018 12:00:00AM**

SW 846 8260C - Volatile Organics - GC/MS - VO+15 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1,2-Dichloropropane	ND	U	0.000200	0.00122	mg/kg	1	10/10/18 18:59
1,3-Dichlorobenzene	ND	U	0.0000898	0.00122	mg/kg	1	10/10/18 18:59
1,4-Dichlorobenzene	ND	U	0.000176	0.00122	mg/kg	1	10/10/18 18:59
2-Butanone	ND	U	0.000199	0.00306	mg/kg	1	10/10/18 18:59
2-Hexanone	ND	U	0.000114	0.00122	mg/kg	1	10/10/18 18:59
4-Methyl-2-pentanone	ND	U	0.000153	0.00122	mg/kg	1	10/10/18 18:59
Acetone	ND	U	0.000370	0.00306	mg/kg	1	10/10/18 18:59
Benzene	ND	U	0.000111	0.00122	mg/kg	1	10/10/18 18:59
Bromochloromethane	ND	U	0.000226	0.00122	mg/kg	1	10/10/18 18:59
Bromodichloromethane	ND	U	0.000153	0.00122	mg/kg	1	10/10/18 18:59
Bromoform	ND	U	0.000215	0.00122	mg/kg	1	10/10/18 18:59
Bromomethane	ND	U	0.000353	0.00122	mg/kg	1	10/10/18 18:59
Carbon disulfide	ND	U	0.000175	0.00122	mg/kg	1	10/10/18 18:59
Carbon Tetrachloride	ND	U	0.000184	0.00122	mg/kg	1	10/10/18 18:59
Chlorobenzene	ND	U	0.000177	0.00122	mg/kg	1	10/10/18 18:59
Chlorodibromomethane	ND	U	0.000150	0.00122	mg/kg	1	10/10/18 18:59
Chloroethane	ND	U	0.000208	0.00122	mg/kg	1	10/10/18 18:59
Chloroform	ND	U	0.000205	0.00122	mg/kg	1	10/10/18 18:59
Chloromethane	ND	U	0.000471	0.00122	mg/kg	1	10/10/18 18:59
cis-1,2-Dichloroethene	ND	U	0.0000591	0.00122	mg/kg	1	10/10/18 18:59
cis-1,3-Dichloropropene	ND	U	0.000155	0.00122	mg/kg	1	10/10/18 18:59
Cyclohexane	ND	U	0.000271	0.00122	mg/kg	1	10/10/18 18:59
Dichlorodifluoromethane	ND	U	0.000413	0.00122	mg/kg	1	10/10/18 18:59
EthylBenzene	ND	U	0.000166	0.00122	mg/kg	1	10/10/18 18:59
Isopropylbenzene	ND	U	0.000192	0.00122	mg/kg	1	10/10/18 18:59
m+p-Xylenes	ND	U	0.000309	0.00244	mg/kg	1	10/10/18 18:59
Methyl Acetate	ND	U	0.000162	0.00122	mg/kg	1	10/10/18 18:59
Methyl tert-Butyl Ether	ND	U	0.000207	0.00122	mg/kg	1	10/10/18 18:59
Methylcyclohexane	ND	U	0.000197	0.00122	mg/kg	1	10/10/18 18:59
Methylene Chloride	ND	U	0.000367	0.00122	mg/kg	1	10/10/18 18:59
o-Xylene	ND	U	0.000157	0.00122	mg/kg	1	10/10/18 18:59
Styrene	ND	U	0.000175	0.00122	mg/kg	1	10/10/18 18:59
tert-Butyl alcohol	ND	U	0.00257	0.0122	mg/kg	1	10/10/18 18:59
Tetrachloroethene	**0.00329**		**0.000121**	**0.00122**	**mg/kg**	**1**	**10/10/18 18:59**
Toluene	ND	U	0.0000984	0.00122	mg/kg	1	10/10/18 18:59
Total Xylenes	ND	U	0.000157	0.00122	mg/kg	1	10/10/18 18:59
trans-1,2-Dichloroethene	ND	U	0.000166	0.00122	mg/kg	1	10/10/18 18:59
trans-1,3-Dichloropropene	ND	U	0.000233	0.00122	mg/kg	1	10/10/18 18:59
Trichloroethene	ND	U	0.000180	0.00122	mg/kg	1	10/10/18 18:59

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental **Work Order:** 8100452
Project: Ridgewood **Date to Lab:** 10/10/2018 3:40:00PM

8100452-01 (Soil) Sample Name: NTP-1A Collected: 10/10/2018 12:00:00AM

SW 846 8260C - Volatile Organics - GC/MS - VO+15 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Trichlorofluoromethane	ND	U	0.000141	0.00122	mg/kg	1	10/10/18 18:59
Vinyl chloride	ND	U	0.000232	0.00122	mg/kg	1	10/10/18 18:59

SW 846 8260C - Volatile Organics - GC/MS - VO+15 - TIC

Tentitively Identified Compound	Est Conc	RT	Qual	Units	Dilution	Analyzed
No TICs Found						

Gravimetric - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	**89.9**				**%**	**1**	**10/11/18 10:54**

SW 846 9014 - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Cyanide	ND		0.0834	0.278	mg/kg	1	10/11/18 13:30

8100452-02 (Soil) Sample Name: NTP-2A Collected: 10/10/2018 12:00:00AM

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	**97.5**		**10.8**	**21.6**	**mg/kg**	**1**	**10/11/18 13:27**

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	ND		0.0228	0.0465	mg/kg	1	10/11/18 12:20

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	**3800**		**0.0563**	**2.62**	**mg/kg**	**1**	**10/11/18 14:34**
Antimony	ND		0.00554	1.31	mg/kg	1	10/11/18 14:34
Arsenic	ND		0.0126	1.31	mg/kg	1	10/11/18 14:34
Barium	**21.4**		**0.00101**	**0.525**	**mg/kg**	**1**	**10/11/18 14:34**
Beryllium	**0.160**		**0.0000946**	**0.0262**	**mg/kg**	**1**	**10/11/18 14:34**
Cadmium	ND		0.000894	0.262	mg/kg	1	10/11/18 14:34
Calcium	**1260**		**0.298**	**26.2**	**mg/kg**	**1**	**10/11/18 14:34**
Chromium	**6.19**		**0.000943**	**0.262**	**mg/kg**	**1**	**10/11/18 14:34**
Cobalt	**2.83**		**0.00114**	**0.210**	**mg/kg**	**1**	**10/11/18 14:34**
Copper	**10.4**		**0.00113**	**0.262**	**mg/kg**	**1**	**10/11/18 14:34**
Iron	**8240**		**0.119**	**5.25**	**mg/kg**	**1**	**10/11/18 14:34**

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental **Work Order:** 8100452
Project: Ridgewood **Date to Lab:** 10/10/2018 3:40:00PM

8100452-02 (Soil) Sample Name: **NTP-2A** Collected: **10/10/2018 12:00:00AM**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Lead	**26.2**		**0.00548**	**1.31**	**mg/kg**	**1**	**10/11/18 14:34**
Magnesium	**952**		**0.764**	**52.5**	**mg/kg**	**1**	**10/11/18 14:34**
Manganese	**144**		**0.000649**	**0.262**	**mg/kg**	**1**	**10/11/18 14:34**
Nickel	**5.14**		**0.00180**	**0.131**	**mg/kg**	**1**	**10/11/18 14:34**
Potassium	**251**		**2.47**	**105**	**mg/kg**	**1**	**10/11/18 14:34**
Selenium	ND		0.0113	1.31	mg/kg	1	10/11/18 14:34
Silver	ND		0.00313	0.525	mg/kg	1	10/11/18 14:34
Sodium	**116**		**0.144**	**52.5**	**mg/kg**	**1**	**10/11/18 14:34**
Thallium	ND		0.00727	1.31	mg/kg	1	10/11/18 14:34
Vanadium	**11.2**		**0.00909**	**0.525**	**mg/kg**	**1**	**10/11/18 14:34**
Zinc	**30.2**		**0.00241**	**0.787**	**mg/kg**	**1**	**10/11/18 14:34**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1-Methylnaphthalene	ND	U	0.120	0.216	mg/kg	1	10/11/18 14:38
2-Methylnaphthalene	ND	U	0.0345	0.216	mg/kg	1	10/11/18 14:38
Acenaphthene	ND	U	0.00820	0.144	mg/kg	1	10/11/18 14:38
Acenaphthylene	ND	U	0.00500	0.144	mg/kg	1	10/11/18 14:38
Anthracene	ND	U	0.0209	0.144	mg/kg	1	10/11/18 14:38
Benzo(a)anthracene	**0.0754**	**J**	**0.0145**	**0.144**	**mg/kg**	**1**	**10/11/18 14:38**
Benzo(a)pyrene	**0.0733**	**J**	**0.0251**	**0.144**	**mg/kg**	**1**	**10/11/18 14:38**
Benzo(b)fluoranthene	ND	U	0.0202	0.144	mg/kg	1	10/11/18 14:38
Benzo(g,h,i)perylene	**0.0911**	**J**	**0.0117**	**0.144**	**mg/kg**	**1**	**10/11/18 14:38**
Benzo(k)fluoranthene	**0.106**	**J**	**0.0165**	**0.144**	**mg/kg**	**1**	**10/11/18 14:38**
Chrysene	**0.0911**	**J**	**0.00985**	**0.144**	**mg/kg**	**1**	**10/11/18 14:38**
Dibenzo(a,h)anthracene	ND	U	0.0143	0.144	mg/kg	1	10/11/18 14:38
Fluoranthene	**0.120**	**J**	**0.0135**	**0.144**	**mg/kg**	**1**	**10/11/18 14:38**
Fluorene	ND	U	0.0120	0.144	mg/kg	1	10/11/18 14:38
Indeno(1,2,3-cd)pyrene	ND	U	0.0155	0.144	mg/kg	1	10/11/18 14:38
Naphthalene	ND	U	0.0107	0.144	mg/kg	1	10/11/18 14:38
Phenanthrene	**0.0544**	**J**	**0.0189**	**0.144**	**mg/kg**	**1**	**10/11/18 14:38**
Pyrene	**0.130**	**J**	**0.0106**	**0.144**	**mg/kg**	**1**	**10/11/18 14:38**

SW 846 8260C - Volatile Organics - GC/MS - VO+15

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1,1,1-Trichloroethane	ND	U	0.000128	0.000879	mg/kg	1	10/10/18 19:28
1,1,2,2-Tetrachloroethane	ND	U	0.000121	0.000879	mg/kg	1	10/10/18 19:28
1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	U	0.000376	0.000879	mg/kg	1	10/10/18 19:28

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-02 (Soil) Sample Name: **NTP-2A** Collected: **10/10/2018 12:00:00AM**

SW 846 8260C - Volatile Organics - GC/MS - VO+15 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1,1,2-Trichloroethane	ND	U	0.000148	0.000879	mg/kg	1	10/10/18 19:28
1,1-Dichloroethane	ND	U	0.000128	0.000879	mg/kg	1	10/10/18 19:28
1,1-Dichloroethene	ND	U	0.000163	0.000879	mg/kg	1	10/10/18 19:28
1,2,3-Trichlorobenzene	ND	U	0.000190	0.000879	mg/kg	1	10/10/18 19:28
1,2,4-Trichlorobenzene	ND	U	0.000234	0.000879	mg/kg	1	10/10/18 19:28
1,2,4-Trimethylbenzene	ND	U	0.000121	0.000879	mg/kg	1	10/10/18 19:28
1,2-Dibromo-3-chloropropane	ND	U	0.000214	0.000879	mg/kg	1	10/10/18 19:28
1,2-Dibromoethane	ND	U	0.000111	0.000879	mg/kg	1	10/10/18 19:28
1,2-Dichlorobenzene	ND	U	0.000155	0.000879	mg/kg	1	10/10/18 19:28
1,2-Dichloroethane	ND	U	0.000124	0.000879	mg/kg	1	10/10/18 19:28
1,2-Dichloropropane	ND	U	0.000144	0.000879	mg/kg	1	10/10/18 19:28
1,3-Dichlorobenzene	ND	U	0.0000646	0.000879	mg/kg	1	10/10/18 19:28
1,4-Dichlorobenzene	ND	U	0.000127	0.000879	mg/kg	1	10/10/18 19:28
2-Butanone	ND	U	0.000143	0.00220	mg/kg	1	10/10/18 19:28
2-Hexanone	ND	U	0.0000821	0.000879	mg/kg	1	10/10/18 19:28
4-Methyl-2-pentanone	ND	U	0.000110	0.000879	mg/kg	1	10/10/18 19:28
Acetone	ND	U	0.000266	0.00220	mg/kg	1	10/10/18 19:28
Benzene	ND	U	0.0000799	0.000879	mg/kg	1	10/10/18 19:28
Bromochloromethane	ND	U	0.000162	0.000879	mg/kg	1	10/10/18 19:28
Bromodichloromethane	ND	U	0.000110	0.000879	mg/kg	1	10/10/18 19:28
Bromoform	ND	U	0.000154	0.000879	mg/kg	1	10/10/18 19:28
Bromomethane	ND	U	0.000253	0.000879	mg/kg	1	10/10/18 19:28
Carbon disulfide	ND	U	0.000126	0.000879	mg/kg	1	10/10/18 19:28
Carbon Tetrachloride	ND	U	0.000132	0.000879	mg/kg	1	10/10/18 19:28
Chlorobenzene	ND	U	0.000127	0.000879	mg/kg	1	10/10/18 19:28
Chlorodibromomethane	ND	U	0.000108	0.000879	mg/kg	1	10/10/18 19:28
Chloroethane	ND	U	0.000150	0.000879	mg/kg	1	10/10/18 19:28
Chloroform	ND	U	0.000148	0.000879	mg/kg	1	10/10/18 19:28
Chloromethane	ND	U	0.000338	0.000879	mg/kg	1	10/10/18 19:28
cis-1,2-Dichloroethene	ND	U	0.0000425	0.000879	mg/kg	1	10/10/18 19:28
cis-1,3-Dichloropropene	ND	U	0.000111	0.000879	mg/kg	1	10/10/18 19:28
Cyclohexane	ND	U	0.000195	0.000879	mg/kg	1	10/10/18 19:28
Dichlorodifluoromethane	ND	U	0.000297	0.000879	mg/kg	1	10/10/18 19:28
EthylBenzene	ND	U	0.000119	0.000879	mg/kg	1	10/10/18 19:28
Isopropylbenzene	ND	U	0.000138	0.000879	mg/kg	1	10/10/18 19:28
m+p-Xylenes	ND	U	0.000222	0.00176	mg/kg	1	10/10/18 19:28
Methyl Acetate	ND	U	0.000116	0.000879	mg/kg	1	10/10/18 19:28
Methyl tert-Butyl Ether	ND	U	0.000148	0.000879	mg/kg	1	10/10/18 19:28
Methylcyclohexane	ND	U	0.000141	0.000879	mg/kg	1	10/10/18 19:28

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental **Work Order:** 8100452
Project: Ridgewood **Date to Lab:** 10/10/2018 3:40:00PM

8100452-02 (Soil) Sample Name: NTP-2A Collected: 10/10/2018 12:00:00AM

SW 846 8260C - Volatile Organics - GC/MS - VO+15 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Methylene Chloride	ND	U	0.000264	0.000879	mg/kg	1	10/10/18 19:28
o-Xylene	ND	U	0.000113	0.000879	mg/kg	1	10/10/18 19:28
Styrene	ND	U	0.000126	0.000879	mg/kg	1	10/10/18 19:28
tert-Butyl alcohol	ND	U	0.00184	0.00879	mg/kg	1	10/10/18 19:28
Tetrachloroethene	**0.00240**		**0.0000870**	**0.000879**	**mg/kg**	**1**	**10/10/18 19:28**
Toluene	ND	U	0.0000707	0.000879	mg/kg	1	10/10/18 19:28
Total Xylenes	ND	U	0.000113	0.000879	mg/kg	1	10/10/18 19:28
trans-1,2-Dichloroethene	ND	U	0.000119	0.000879	mg/kg	1	10/10/18 19:28
trans-1,3-Dichloropropene	ND	U	0.000168	0.000879	mg/kg	1	10/10/18 19:28
Trichloroethene	ND	U	0.000129	0.000879	mg/kg	1	10/10/18 19:28
Trichlorofluoromethane	ND	U	0.000101	0.000879	mg/kg	1	10/10/18 19:28
Vinyl chloride	ND	U	0.000167	0.000879	mg/kg	1	10/10/18 19:28

SW 846 8260C - Volatile Organics - GC/MS - VO+15 - TIC

Tentitively Identified Compound	Est Conc	RT	Qual	Units	Dilution	Analyzed
No TICs Found						

Gravimetric - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	**92.5**				**%**	**1**	**10/11/18 10:54**

8100452-03 (Soil) Sample Name: NTP-2B Collected: 10/10/2018 12:00:00AM

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	**38.1**		**10.8**	**21.7**	**mg/kg**	**1**	**10/11/18 14:02**

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	ND		0.0250	0.0510	mg/kg	1	10/11/18 12:24

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	**3620**		**0.0549**	**2.56**	**mg/kg**	**1**	**10/11/18 14:36**
Antimony	ND		0.00540	1.28	mg/kg	1	10/11/18 14:36
Arsenic	ND		0.0123	1.28	mg/kg	1	10/11/18 14:36
Barium	**17.9**		**0.000986**	**0.511**	**mg/kg**	**1**	**10/11/18 14:36**
Beryllium	**0.184**		**0.0000922**	**0.0256**	**mg/kg**	**1**	**10/11/18 14:36**

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental **Work Order:** 8100452
Project: Ridgewood **Date to Lab:** 10/10/2018 3:40:00PM

8100452-03 (Soil) Sample Name: **NTP-2B** Collected: **10/10/2018 12:00:00AM**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Cadmium	ND		0.000871	0.256	mg/kg	1	10/11/18 14:36
Calcium	**1100**		**0.290**	**25.6**	**mg/kg**	**1**	**10/11/18 14:36**
Chromium	**5.98**		**0.000919**	**0.256**	**mg/kg**	**1**	**10/11/18 14:36**
Cobalt	**2.49**		**0.00111**	**0.205**	**mg/kg**	**1**	**10/11/18 14:36**
Copper	**9.46**		**0.00110**	**0.256**	**mg/kg**	**1**	**10/11/18 14:36**
Iron	**8490**		**0.116**	**5.11**	**mg/kg**	**1**	**10/11/18 14:36**
Lead	**19.0**		**0.00534**	**1.28**	**mg/kg**	**1**	**10/11/18 14:36**
Magnesium	**885**		**0.744**	**51.1**	**mg/kg**	**1**	**10/11/18 14:36**
Manganese	**139**		**0.000633**	**0.256**	**mg/kg**	**1**	**10/11/18 14:36**
Nickel	**5.09**		**0.00176**	**0.128**	**mg/kg**	**1**	**10/11/18 14:36**
Potassium	**233**		**2.40**	**102**	**mg/kg**	**1**	**10/11/18 14:36**
Selenium	ND		0.0110	1.28	mg/kg	1	10/11/18 14:36
Silver	ND		0.00305	0.511	mg/kg	1	10/11/18 14:36
Sodium	**93.8**		**0.140**	**51.1**	**mg/kg**	**1**	**10/11/18 14:36**
Thallium	ND		0.00709	1.28	mg/kg	1	10/11/18 14:36
Vanadium	**12.0**		**0.00886**	**0.511**	**mg/kg**	**1**	**10/11/18 14:36**
Zinc	**24.5**		**0.00235**	**0.767**	**mg/kg**	**1**	**10/11/18 14:36**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1-Methylnaphthalene	ND	U	0.120	0.217	mg/kg	1	10/11/18 15:07
2-Methylnaphthalene	ND	U	0.0346	0.217	mg/kg	1	10/11/18 15:07
Acenaphthene	ND	U	0.00823	0.144	mg/kg	1	10/11/18 15:07
Acenaphthylene	ND	U	0.00502	0.144	mg/kg	1	10/11/18 15:07
Anthracene	ND	U	0.0209	0.144	mg/kg	1	10/11/18 15:07
Benzo(a)anthracene	**0.0876**	**J**	**0.0145**	**0.144**	**mg/kg**	**1**	**10/11/18 15:07**
Benzo(a)pyrene	**0.0814**	**J**	**0.0251**	**0.144**	**mg/kg**	**1**	**10/11/18 15:07**
Benzo(b)fluoranthene	**0.0987**	**J**	**0.0203**	**0.144**	**mg/kg**	**1**	**10/11/18 15:07**
Benzo(g,h,i)perylene	**0.0663**	**J**	**0.0117**	**0.144**	**mg/kg**	**1**	**10/11/18 15:07**
Benzo(k)fluoranthene	**0.0460**	**J**	**0.0166**	**0.144**	**mg/kg**	**1**	**10/11/18 15:07**
Chrysene	**0.0730**	**J**	**0.00989**	**0.144**	**mg/kg**	**1**	**10/11/18 15:07**
Dibenzo(a,h)anthracene	ND	U	0.0143	0.144	mg/kg	1	10/11/18 15:07
Fluoranthene	**0.153**		**0.0135**	**0.144**	**mg/kg**	**1**	**10/11/18 15:07**
Fluorene	ND	U	0.0120	0.144	mg/kg	1	10/11/18 15:07
Indeno(1,2,3-cd)pyrene	ND	U	0.0155	0.144	mg/kg	1	10/11/18 15:07
Naphthalene	ND	U	0.0107	0.144	mg/kg	1	10/11/18 15:07
Phenanthrene	**0.114**	**J**	**0.0190**	**0.144**	**mg/kg**	**1**	**10/11/18 15:07**
Pyrene	**0.137**	**J**	**0.0106**	**0.144**	**mg/kg**	**1**	**10/11/18 15:07**

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-03 (Soil) Sample Name: **NTP-2B** Collected: **10/10/2018 12:00:00AM**

Gravimetric - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	**92.3**				**%**	**1**	**10/11/18 10:54**

8100452-04 (Soil) Sample Name: **NTP-3B** Collected: **10/10/2018 12:00:00AM**

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	ND	U	10.9	21.9	mg/kg	1	10/11/18 14:37

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	ND		0.0244	0.0497	mg/kg	1	10/11/18 12:27

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	**4300**		**0.0571**	**2.66**	**mg/kg**	**1**	**10/11/18 14:38**
Antimony	ND		0.00561	1.33	mg/kg	1	10/11/18 14:38
Arsenic	ND		0.0128	1.33	mg/kg	1	10/11/18 14:38
Barium	**24.3**		**0.00102**	**0.532**	**mg/kg**	**1**	**10/11/18 14:38**
Beryllium	**0.181**		**0.0000959**	**0.0266**	**mg/kg**	**1**	**10/11/18 14:38**
Cadmium	ND		0.000906	0.266	mg/kg	1	10/11/18 14:38
Calcium	**619**		**0.302**	**26.6**	**mg/kg**	**1**	**10/11/18 14:38**
Chromium	**7.12**		**0.000956**	**0.266**	**mg/kg**	**1**	**10/11/18 14:38**
Cobalt	**3.03**		**0.00116**	**0.213**	**mg/kg**	**1**	**10/11/18 14:38**
Copper	**7.89**		**0.00115**	**0.266**	**mg/kg**	**1**	**10/11/18 14:38**
Iron	**9220**		**0.120**	**5.32**	**mg/kg**	**1**	**10/11/18 14:38**
Lead	**6.72**		**0.00555**	**1.33**	**mg/kg**	**1**	**10/11/18 14:38**
Magnesium	**946**		**0.774**	**53.2**	**mg/kg**	**1**	**10/11/18 14:38**
Manganese	**165**		**0.000658**	**0.266**	**mg/kg**	**1**	**10/11/18 14:38**
Nickel	**5.13**		**0.00183**	**0.133**	**mg/kg**	**1**	**10/11/18 14:38**
Potassium	**252**		**2.50**	**106**	**mg/kg**	**1**	**10/11/18 14:38**
Selenium	ND		0.0115	1.33	mg/kg	1	10/11/18 14:38
Silver	ND		0.00317	0.532	mg/kg	1	10/11/18 14:38
Sodium	**136**		**0.146**	**53.2**	**mg/kg**	**1**	**10/11/18 14:38**
Thallium	ND		0.00737	1.33	mg/kg	1	10/11/18 14:38
Vanadium	**13.4**		**0.00921**	**0.532**	**mg/kg**	**1**	**10/11/18 14:38**
Zinc	**20.3**		**0.00245**	**0.797**	**mg/kg**	**1**	**10/11/18 14:38**

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-04 (Soil) Sample Name: **NTP-3B** Collected: **10/10/2018 12:00:00AM**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1-Methylnaphthalene	ND	U	0.122	0.219	mg/kg	1	10/11/18 15:35
2-Methylnaphthalene	ND	U	0.0349	0.219	mg/kg	1	10/11/18 15:35
Acenaphthene	ND	U	0.00831	0.146	mg/kg	1	10/11/18 15:35
Acenaphthylene	ND	U	0.00507	0.146	mg/kg	1	10/11/18 15:35
Anthracene	ND	U	0.0211	0.146	mg/kg	1	10/11/18 15:35
Benzo(a)anthracene	ND	U	0.0147	0.146	mg/kg	1	10/11/18 15:35
Benzo(a)pyrene	ND	U	0.0254	0.146	mg/kg	1	10/11/18 15:35
Benzo(b)fluoranthene	ND	U	0.0205	0.146	mg/kg	1	10/11/18 15:35
Benzo(g,h,i)perylene	ND	U	0.0118	0.146	mg/kg	1	10/11/18 15:35
Benzo(k)fluoranthene	ND	U	0.0168	0.146	mg/kg	1	10/11/18 15:35
Chrysene	ND	U	0.00999	0.146	mg/kg	1	10/11/18 15:35
Dibenzo(a,h)anthracene	ND	U	0.0145	0.146	mg/kg	1	10/11/18 15:35
Fluoranthene	ND	U	0.0137	0.146	mg/kg	1	10/11/18 15:35
Fluorene	ND	U	0.0122	0.146	mg/kg	1	10/11/18 15:35
Indeno(1,2,3-cd)pyrene	ND	U	0.0157	0.146	mg/kg	1	10/11/18 15:35
Naphthalene	ND	U	0.0108	0.146	mg/kg	1	10/11/18 15:35
Phenanthrene	ND	U	0.0192	0.146	mg/kg	1	10/11/18 15:35
Pyrene	ND	U	0.0107	0.146	mg/kg	1	10/11/18 15:35

Gravimetric - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	**91.3**				**%**	**1**	**10/11/18 10:54**

8100452-05 (Soil) Sample Name: **NTP-4B** Collected: **10/10/2018 12:35:00PM**

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	ND	U	10.9	21.7	mg/kg	1	10/11/18 15:25

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	ND		0.0246	0.0502	mg/kg	1	10/11/18 12:40

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

All Results Summary

Client: Peak Environmental **Work Order:** 8100452
Project: Ridgewood **Date to Lab:** 10/10/2018 3:40:00PM

8100452-05 (Soil) Sample Name: **NTP-4B** Collected: **10/10/2018 12:35:00PM**

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	**5500**		**0.0614**	**2.86**	**mg/kg**	**1**	**10/11/18 14:40**
Antimony	ND		0.00604	1.43	mg/kg	1	10/11/18 14:40
Arsenic	ND		0.0137	1.43	mg/kg	1	10/11/18 14:40
Barium	**31.8**		**0.00110**	**0.572**	**mg/kg**	**1**	**10/11/18 14:40**
Beryllium	**0.203**		**0.000103**	**0.0286**	**mg/kg**	**1**	**10/11/18 14:40**
Cadmium	ND		0.000975	0.286	mg/kg	1	10/11/18 14:40
Calcium	**933**		**0.325**	**28.6**	**mg/kg**	**1**	**10/11/18 14:40**
Chromium	**11.2**		**0.00103**	**0.286**	**mg/kg**	**1**	**10/11/18 14:40**
Cobalt	**4.83**		**0.00125**	**0.229**	**mg/kg**	**1**	**10/11/18 14:40**
Copper	**9.21**		**0.00124**	**0.286**	**mg/kg**	**1**	**10/11/18 14:40**
Iron	**12100**		**0.129**	**5.72**	**mg/kg**	**1**	**10/11/18 14:40**
Lead	**5.21**		**0.00597**	**1.43**	**mg/kg**	**1**	**10/11/18 14:40**
Magnesium	**1750**		**0.833**	**57.2**	**mg/kg**	**1**	**10/11/18 14:40**
Manganese	**229**		**0.000708**	**0.286**	**mg/kg**	**1**	**10/11/18 14:40**
Nickel	**7.75**		**0.00197**	**0.143**	**mg/kg**	**1**	**10/11/18 14:40**
Potassium	**261**		**2.69**	**114**	**mg/kg**	**1**	**10/11/18 14:40**
Selenium	ND		0.0124	1.43	mg/kg	1	10/11/18 14:40
Silver	ND		0.00341	0.572	mg/kg	1	10/11/18 14:40
Sodium	**335**		**0.157**	**57.2**	**mg/kg**	**1**	**10/11/18 14:40**
Thallium	ND		0.00793	1.43	mg/kg	1	10/11/18 14:40
Vanadium	**18.9**		**0.00991**	**0.572**	**mg/kg**	**1**	**10/11/18 14:40**
Zinc	**17.6**		**0.00263**	**0.858**	**mg/kg**	**1**	**10/11/18 14:40**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1-Methylnaphthalene	ND	U	0.121	0.217	mg/kg	1	10/11/18 16:04
2-Methylnaphthalene	ND	U	0.0347	0.217	mg/kg	1	10/11/18 16:04
Acenaphthene	ND	U	0.00825	0.145	mg/kg	1	10/11/18 16:04
Acenaphthylene	ND	U	0.00503	0.145	mg/kg	1	10/11/18 16:04
Anthracene	ND	U	0.0210	0.145	mg/kg	1	10/11/18 16:04
Benzo(a)anthracene	ND	U	0.0146	0.145	mg/kg	1	10/11/18 16:04
Benzo(a)pyrene	ND	U	0.0252	0.145	mg/kg	1	10/11/18 16:04
Benzo(b)fluoranthene	ND	U	0.0203	0.145	mg/kg	1	10/11/18 16:04
Benzo(g,h,i)perylene	ND	U	0.0117	0.145	mg/kg	1	10/11/18 16:04
Benzo(k)fluoranthene	ND	U	0.0166	0.145	mg/kg	1	10/11/18 16:04
Chrysene	ND	U	0.00991	0.145	mg/kg	1	10/11/18 16:04
Dibenzo(a,h)anthracene	ND	U	0.0143	0.145	mg/kg	1	10/11/18 16:04
Fluoranthene	ND	U	0.0136	0.145	mg/kg	1	10/11/18 16:04
Fluorene	ND	U	0.0121	0.145	mg/kg	1	10/11/18 16:04

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-05 (Soil) Sample Name: **NTP-4B** Collected: **10/10/2018 12:35:00PM**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Indeno(1,2,3-cd)pyrene	ND	U	0.0155	0.145	mg/kg	1	10/11/18 16:04
Naphthalene	ND	U	0.0107	0.145	mg/kg	1	10/11/18 16:04
Phenanthrene	ND	U	0.0190	0.145	mg/kg	1	10/11/18 16:04
Pyrene	ND	U	0.0106	0.145	mg/kg	1	10/11/18 16:04

SW 846 8260C - Volatile Organics - GC/MS - VO+15

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1,1,1-Trichloroethane	ND	U	0.000139	0.000954	mg/kg	1	10/10/18 19:58
1,1,2,2-Tetrachloroethane	ND	U	0.000132	0.000954	mg/kg	1	10/10/18 19:58
1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	U	0.000408	0.000954	mg/kg	1	10/10/18 19:58
1,1,2-Trichloroethane	ND	U	0.000161	0.000954	mg/kg	1	10/10/18 19:58
1,1-Dichloroethane	ND	U	0.000139	0.000954	mg/kg	1	10/10/18 19:58
1,1-Dichloroethene	ND	U	0.000176	0.000954	mg/kg	1	10/10/18 19:58
1,2,3-Trichlorobenzene	ND	U	0.000206	0.000954	mg/kg	1	10/10/18 19:58
1,2,4-Trichlorobenzene	ND	U	0.000254	0.000954	mg/kg	1	10/10/18 19:58
1,2,4-Trimethylbenzene	ND	U	0.000132	0.000954	mg/kg	1	10/10/18 19:58
1,2-Dibromo-3-chloropropane	ND	U	0.000233	0.000954	mg/kg	1	10/10/18 19:58
1,2-Dibromoethane	ND	U	0.000120	0.000954	mg/kg	1	10/10/18 19:58
1,2-Dichlorobenzene	ND	U	0.000168	0.000954	mg/kg	1	10/10/18 19:58
1,2-Dichloroethane	ND	U	0.000134	0.000954	mg/kg	1	10/10/18 19:58
1,2-Dichloropropane	ND	U	0.000156	0.000954	mg/kg	1	10/10/18 19:58
1,3-Dichlorobenzene	ND	U	0.0000701	0.000954	mg/kg	1	10/10/18 19:58
1,4-Dichlorobenzene	ND	U	0.000137	0.000954	mg/kg	1	10/10/18 19:58
2-Butanone	ND	U	0.000155	0.00238	mg/kg	1	10/10/18 19:58
2-Hexanone	ND	U	0.0000892	0.000954	mg/kg	1	10/10/18 19:58
4-Methyl-2-pentanone	ND	U	0.000119	0.000954	mg/kg	1	10/10/18 19:58
Acetone	ND	U	0.000289	0.00238	mg/kg	1	10/10/18 19:58
Benzene	ND	U	0.0000868	0.000954	mg/kg	1	10/10/18 19:58
Bromochloromethane	ND	U	0.000176	0.000954	mg/kg	1	10/10/18 19:58
Bromodichloromethane	ND	U	0.000120	0.000954	mg/kg	1	10/10/18 19:58
Bromoform	ND	U	0.000167	0.000954	mg/kg	1	10/10/18 19:58
Bromomethane	ND	U	0.000275	0.000954	mg/kg	1	10/10/18 19:58
Carbon disulfide	ND	U	0.000137	0.000954	mg/kg	1	10/10/18 19:58
Carbon Tetrachloride	ND	U	0.000144	0.000954	mg/kg	1	10/10/18 19:58
Chlorobenzene	ND	U	0.000138	0.000954	mg/kg	1	10/10/18 19:58
Chlorodibromomethane	ND	U	0.000117	0.000954	mg/kg	1	10/10/18 19:58
Chloroethane	ND	U	0.000163	0.000954	mg/kg	1	10/10/18 19:58
Chloroform	ND	U	0.000160	0.000954	mg/kg	1	10/10/18 19:58

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-05 (Soil) Sample Name: **NTP-4B** Collected: **10/10/2018 12:35:00PM**

SW 846 8260C - Volatile Organics - GC/MS - VO+15 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Chloromethane	ND	U	0.000367	0.000954	mg/kg	1	10/10/18 19:58
cis-1,2-Dichloroethene	ND	U	0.0000461	0.000954	mg/kg	1	10/10/18 19:58
cis-1,3-Dichloropropene	ND	U	0.000121	0.000954	mg/kg	1	10/10/18 19:58
Cyclohexane	ND	U	0.000211	0.000954	mg/kg	1	10/10/18 19:58
Dichlorodifluoromethane	ND	U	0.000322	0.000954	mg/kg	1	10/10/18 19:58
EthylBenzene	ND	U	0.000129	0.000954	mg/kg	1	10/10/18 19:58
Isopropylbenzene	ND	U	0.000150	0.000954	mg/kg	1	10/10/18 19:58
m+p-Xylenes	ND	U	0.000241	0.00191	mg/kg	1	10/10/18 19:58
Methyl Acetate	ND	U	0.000126	0.000954	mg/kg	1	10/10/18 19:58
Methyl tert-Butyl Ether	ND	U	0.000161	0.000954	mg/kg	1	10/10/18 19:58
Methylcyclohexane	ND	U	0.000154	0.000954	mg/kg	1	10/10/18 19:58
Methylene Chloride	ND	U	0.000287	0.000954	mg/kg	1	10/10/18 19:58
o-Xylene	ND	U	0.000123	0.000954	mg/kg	1	10/10/18 19:58
Styrene	ND	U	0.000136	0.000954	mg/kg	1	10/10/18 19:58
tert-Butyl alcohol	ND	U	0.00200	0.00954	mg/kg	1	10/10/18 19:58
Tetrachloroethene	ND	U	0.0000944	0.000954	mg/kg	1	10/10/18 19:58
Toluene	ND	U	0.0000768	0.000954	mg/kg	1	10/10/18 19:58
Total Xylenes	ND	U	0.000123	0.000954	mg/kg	1	10/10/18 19:58
trans-1,2-Dichloroethene	ND	U	0.000129	0.000954	mg/kg	1	10/10/18 19:58
trans-1,3-Dichloropropene	ND	U	0.000182	0.000954	mg/kg	1	10/10/18 19:58
Trichloroethene	ND	U	0.000140	0.000954	mg/kg	1	10/10/18 19:58
Trichlorofluoromethane	ND	U	0.000110	0.000954	mg/kg	1	10/10/18 19:58
Vinyl chloride	ND	U	0.000181	0.000954	mg/kg	1	10/10/18 19:58

SW 846 8260C - Volatile Organics - GC/MS - VO+15 - TIC

Tentitively Identified Compound	Est Conc	RT	Qual	Units	Dilution	Analyzed
No TICs Found						

Gravimetric - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	**92.0**				**%**	**1**	**10/11/18 10:54**

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-06 (Soil) Sample Name: **NTP-6** Collected: **10/10/2018 12:50:00PM**

SW 846 8082A - PCBs

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aroclor-1016	ND	U	0.000670	0.0376	mg/kg	1	10/11/18 14:26
Aroclor-1221	ND	U	0.00116	0.0376	mg/kg	1	10/11/18 14:26
Aroclor-1232	ND	U	0.000886	0.0376	mg/kg	1	10/11/18 14:26
Aroclor-1242	ND	U	0.00128	0.0376	mg/kg	1	10/11/18 14:26
Aroclor-1248	ND	U	0.000883	0.0376	mg/kg	1	10/11/18 14:26
Aroclor-1254	ND	U	0.00134	0.0376	mg/kg	1	10/11/18 14:26
Aroclor-1260	ND	U	0.000992	0.0376	mg/kg	1	10/11/18 14:26
Aroclor-1262	ND	U	0.00145	0.0376	mg/kg	1	10/11/18 14:26
Aroclor-1268	ND	U	0.000761	0.0376	mg/kg	1	10/11/18 14:26
Total PCBs	ND	U	0.000670	0.0376	mg/kg	1	10/11/18 14:26

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	ND	U	11.4	22.8	mg/kg	1	10/11/18 16:00

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	ND		0.0249	0.0508	mg/kg	1	10/11/18 12:04

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	**6670**		**0.0631**	**2.94**	**mg/kg**	**1**	**10/11/18 14:42**
Antimony	ND		0.00621	1.47	mg/kg	1	10/11/18 14:42
Arsenic	**1.71**		**0.0141**	**1.47**	**mg/kg**	**1**	**10/11/18 14:42**
Barium	**29.1**		**0.00113**	**0.588**	**mg/kg**	**1**	**10/11/18 14:42**
Beryllium	**0.282**		**0.000106**	**0.0294**	**mg/kg**	**1**	**10/11/18 14:42**
Cadmium	ND		0.00100	0.294	mg/kg	1	10/11/18 14:42
Calcium	**1140**		**0.334**	**29.4**	**mg/kg**	**1**	**10/11/18 14:42**
Chromium	**9.79**		**0.00106**	**0.294**	**mg/kg**	**1**	**10/11/18 14:42**
Cobalt	**3.59**		**0.00128**	**0.235**	**mg/kg**	**1**	**10/11/18 14:42**
Copper	**10.1**		**0.00127**	**0.294**	**mg/kg**	**1**	**10/11/18 14:42**
Iron	**12300**		**0.133**	**5.88**	**mg/kg**	**1**	**10/11/18 14:42**
Lead	**7.82**		**0.00614**	**1.47**	**mg/kg**	**1**	**10/11/18 14:42**
Magnesium	**1290**		**0.856**	**58.8**	**mg/kg**	**1**	**10/11/18 14:42**
Manganese	**176**		**0.000728**	**0.294**	**mg/kg**	**1**	**10/11/18 14:42**
Nickel	**6.47**		**0.00202**	**0.147**	**mg/kg**	**1**	**10/11/18 14:42**
Potassium	**361**		**2.76**	**118**	**mg/kg**	**1**	**10/11/18 14:42**
Selenium	ND		0.0127	1.47	mg/kg	1	10/11/18 14:42
Silver	ND		0.00350	0.588	mg/kg	1	10/11/18 14:42

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-06 (Soil) Sample Name: **NTP-6** Collected: **10/10/2018 12:50:00PM**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Sodium	**132**		**0.161**	**58.8**	**mg/kg**	**1**	**10/11/18 14:42**
Thallium	ND		0.00815	1.47	mg/kg	1	10/11/18 14:42
Vanadium	**17.4**		**0.0102**	**0.588**	**mg/kg**	**1**	**10/11/18 14:42**
Zinc	**20.9**		**0.00270**	**0.882**	**mg/kg**	**1**	**10/11/18 14:42**

SW 846 8081B - Pesticides

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
4,4'-DDD	ND	U	0.000897	0.00148	mg/kg	1	10/11/18 16:29
4,4'-DDE	ND	U	0.00105	0.00148	mg/kg	1	10/11/18 16:29
4,4'-DDT	ND	U	0.000711	0.00148	mg/kg	1	10/11/18 16:29
Aldrin	ND	U	0.000920	0.00148	mg/kg	1	10/11/18 16:29
alpha-BHC	ND	U	0.000574	0.00148	mg/kg	1	10/11/18 16:29
beta-BHC	ND	U	0.00146	0.00148	mg/kg	1	10/11/18 16:29
Chlordane	ND	U	0.000995	0.00148	mg/kg	1	10/11/18 16:29
delta-BHC	ND	U	0.00115	0.00148	mg/kg	1	10/11/18 16:29
Dieldrin	ND	U	0.000798	0.00148	mg/kg	1	10/11/18 16:29
Endosulfan I	ND	U	0.00103	0.00148	mg/kg	1	10/11/18 16:29
Endosulfan II	ND	U	0.000806	0.00148	mg/kg	1	10/11/18 16:29
Endosulfan sulfate	ND	U	0.000806	0.00148	mg/kg	1	10/11/18 16:29
Endrin	ND	U	0.000761	0.00148	mg/kg	1	10/11/18 16:29
Endrin aldehyde	ND	U	0.000633	0.00148	mg/kg	1	10/11/18 16:29
Endrin ketone	ND	U	0.000904	0.00148	mg/kg	1	10/11/18 16:29
gamma-BHC (Lindane)	ND	U	0.000677	0.00148	mg/kg	1	10/11/18 16:29
Heptachlor	ND	U	0.000867	0.00148	mg/kg	1	10/11/18 16:29
Heptachlor Epoxide	ND	U	0.000927	0.00148	mg/kg	1	10/11/18 16:29
Methoxychlor	ND	U	0.000943	0.00148	mg/kg	1	10/11/18 16:29
Toxaphene	ND	U	0.0230	0.0753	mg/kg	1	10/11/18 16:29

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1-Methylnaphthalene	ND	U	0.0364	0.228	mg/kg	1	10/11/18 16:32
2,3,4,6-Tetrachlorophenol	ND	U	0.0234	0.152	mg/kg	1	10/11/18 16:32
2,4,5-Trichlorophenol	ND	U	0.0206	0.152	mg/kg	1	10/11/18 16:32
2,4,6-Trichlorophenol	ND	U	0.00950	0.152	mg/kg	1	10/11/18 16:32
2,4-Dichlorophenol	ND	U	0.0153	0.152	mg/kg	1	10/11/18 16:32
2,4-Dimethylphenol	ND	U	0.0149	0.152	mg/kg	1	10/11/18 16:32
2,4-Dinitrophenol	ND	U	0.0219	0.761	mg/kg	1	10/11/18 16:32
2,4-Dinitrotoluene	ND	U	0.0162	0.152	mg/kg	1	10/11/18 16:32
2,6-Dinitrotoluene	ND	U	0.0363	0.152	mg/kg	1	10/11/18 16:32

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-06 (Soil) Sample Name: **NTP-6** Collected: **10/10/2018 12:50:00PM**

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
2-Chloronaphthalene	ND	U	0.0174	0.152	mg/kg	1	10/11/18 16:32
2-Chlorophenol	ND	U	0.0201	0.152	mg/kg	1	10/11/18 16:32
2-Methylnaphthalene	ND	U	0.0364	0.228	mg/kg	1	10/11/18 16:32
2-Methylphenol	ND	U	0.0300	0.152	mg/kg	1	10/11/18 16:32
2-Nitroaniline	ND	U	0.0122	0.152	mg/kg	1	10/11/18 16:32
2-Nitrophenol	ND	U	0.0169	0.152	mg/kg	1	10/11/18 16:32
3,3'-Dichlorobenzidine	ND	U	0.0160	0.152	mg/kg	1	10/11/18 16:32
3+4-Methylphenol	ND	U	0.0278	0.152	mg/kg	1	10/11/18 16:32
3-Nitroaniline	ND	U	0.0282	0.152	mg/kg	1	10/11/18 16:32
4,6-Dinitro-2-methylphenol	ND	U	0.0286	0.380	mg/kg	1	10/11/18 16:32
4-Bromophenyl-phenyl ether	ND	U	0.0217	0.152	mg/kg	1	10/11/18 16:32
4-Chloro-3-methylphenol	ND	U	0.0239	0.152	mg/kg	1	10/11/18 16:32
4-Chloroaniline	ND	U	0.00531	0.152	mg/kg	1	10/11/18 16:32
4-Chlorophenyl phenyl ether	ND	U	0.00820	0.152	mg/kg	1	10/11/18 16:32
4-Nitroaniline	ND	U	0.0759	0.152	mg/kg	1	10/11/18 16:32
4-Nitrophenol	ND	U	0.00971	0.152	mg/kg	1	10/11/18 16:32
Acenaphthene	ND	U	0.00865	0.152	mg/kg	1	10/11/18 16:32
Acenaphthylene	ND	U	0.00528	0.152	mg/kg	1	10/11/18 16:32
Acetophenone	ND	U	0.0151	0.152	mg/kg	1	10/11/18 16:32
Anthracene	ND	U	0.0220	0.152	mg/kg	1	10/11/18 16:32
Atrazine	ND	U	0.0143	0.152	mg/kg	1	10/11/18 16:32
Benzaldehyde	ND	U	0.0466	0.152	mg/kg	1	10/11/18 16:32
Benzo(a)anthracene	ND	U	0.0153	0.152	mg/kg	1	10/11/18 16:32
Benzo(a)pyrene	ND	U	0.0265	0.152	mg/kg	1	10/11/18 16:32
Benzo(b)fluoranthene	ND	U	0.0213	0.152	mg/kg	1	10/11/18 16:32
Benzo(g,h,i)perylene	ND	U	0.0123	0.152	mg/kg	1	10/11/18 16:32
Benzo(k)fluoranthene	ND	U	0.0174	0.152	mg/kg	1	10/11/18 16:32
Biphenyl	ND	U	0.0133	0.152	mg/kg	1	10/11/18 16:32
bis(2-chloroethoxy)methane	ND	U	0.0210	0.152	mg/kg	1	10/11/18 16:32
bis(2-chloroethyl)ether	ND	U	0.0166	0.152	mg/kg	1	10/11/18 16:32
bis(2-chloroisopropyl)ether	ND	U	0.0546	0.152	mg/kg	1	10/11/18 16:32
bis(2-ethylhexyl)phthalate	ND	U	0.0303	0.152	mg/kg	1	10/11/18 16:32
Butylbenzylphthalate	ND	U	0.0138	0.152	mg/kg	1	10/11/18 16:32
Caprolactam	ND	U	0.0196	0.152	mg/kg	1	10/11/18 16:32
Carbazole	ND	U	0.0292	0.380	mg/kg	1	10/11/18 16:32
Chrysene	ND	U	0.0104	0.152	mg/kg	1	10/11/18 16:32
Dibenzo(a,h)anthracene	ND	U	0.0151	0.152	mg/kg	1	10/11/18 16:32
Dibenzofuran	ND	U	0.00904	0.152	mg/kg	1	10/11/18 16:32
Diethylphthalate	ND	U	0.0294	0.152	mg/kg	1	10/11/18 16:32

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E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-06 (Soil) Sample Name: **NTP-6** Collected: **10/10/2018 12:50:00PM**

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Dimethylphthalate	**0.0721**	**J**	**0.00942**	**0.152**	**mg/kg**	**1**	**10/11/18 16:32**
Di-n-butylphthalate	ND	U	0.0620	0.152	mg/kg	1	10/11/18 16:32
Di-n-octylphthalate	ND	U	0.0311	0.152	mg/kg	1	10/11/18 16:32
Fluoranthene	ND	U	0.0143	0.152	mg/kg	1	10/11/18 16:32
Fluorene	ND	U	0.0127	0.152	mg/kg	1	10/11/18 16:32
Hexachlorobenzene	ND	U	0.0198	0.152	mg/kg	1	10/11/18 16:32
Hexachlorobutadiene	ND	U	0.0729	0.152	mg/kg	1	10/11/18 16:32
Hexachlorocyclopentadiene	ND	U	0.0633	0.380	mg/kg	1	10/11/18 16:32
Hexachloroethane	ND	U	0.0166	0.152	mg/kg	1	10/11/18 16:32
Indeno(1,2,3-cd)pyrene	ND	U	0.0163	0.152	mg/kg	1	10/11/18 16:32
Isophorone	ND	U	0.00994	0.152	mg/kg	1	10/11/18 16:32
Naphthalene	ND	U	0.0112	0.152	mg/kg	1	10/11/18 16:32
Nitrobenzene	ND	U	0.0258	0.152	mg/kg	1	10/11/18 16:32
n-Nitroso-di-n-propylamine	ND	U	0.00813	0.152	mg/kg	1	10/11/18 16:32
n-Nitrosodiphenylamine	ND	U	0.0324	0.152	mg/kg	1	10/11/18 16:32
Phenanthrene	ND	U	0.0200	0.152	mg/kg	1	10/11/18 16:32
Phenol	ND	U	0.0123	0.152	mg/kg	1	10/11/18 16:32
Pyrene	ND	U	0.0112	0.152	mg/kg	1	10/11/18 16:32

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25 - TIC

Tentitively Identified Compound	Est Conc	RT	Qual	Units	Dilution	Analyzed

No TICs Found

SW 846 8260C - Volatile Organics - GC/MS - VO+15

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1,1,1-Trichloroethane	ND	U	0.000166	0.00114	mg/kg	1	10/10/18 20:28
1,1,2,2-Tetrachloroethane	ND	U	0.000157	0.00114	mg/kg	1	10/10/18 20:28
1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	U	0.000488	0.00114	mg/kg	1	10/10/18 20:28
1,1,2-Trichloroethane	ND	U	0.000192	0.00114	mg/kg	1	10/10/18 20:28
1,1-Dichloroethane	ND	U	0.000166	0.00114	mg/kg	1	10/10/18 20:28
1,1-Dichloroethene	ND	U	0.000211	0.00114	mg/kg	1	10/10/18 20:28
1,2,3-Trichlorobenzene	ND	U	0.000246	0.00114	mg/kg	1	10/10/18 20:28
1,2,4-Trichlorobenzene	ND	U	0.000304	0.00114	mg/kg	1	10/10/18 20:28
1,2,4-Trimethylbenzene	ND	U	0.000157	0.00114	mg/kg	1	10/10/18 20:28
1,2-Dibromo-3-chloropropane	ND	U	0.000278	0.00114	mg/kg	1	10/10/18 20:28
1,2-Dibromoethane	ND	U	0.000144	0.00114	mg/kg	1	10/10/18 20:28
1,2-Dichlorobenzene	ND	U	0.000201	0.00114	mg/kg	1	10/10/18 20:28
1,2-Dichloroethane	ND	U	0.000161	0.00114	mg/kg	1	10/10/18 20:28

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-06 (Soil) Sample Name: **NTP-6** Collected: **10/10/2018 12:50:00PM**

SW 846 8260C - Volatile Organics - GC/MS - VO+15 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1,2-Dichloropropane	ND	U	0.000187	0.00114	mg/kg	1	10/10/18 20:28
1,3-Dichlorobenzene	ND	U	0.0000838	0.00114	mg/kg	1	10/10/18 20:28
1,4-Dichlorobenzene	ND	U	0.000164	0.00114	mg/kg	1	10/10/18 20:28
2-Butanone	ND	U	0.000186	0.00285	mg/kg	1	10/10/18 20:28
2-Hexanone	ND	U	0.000107	0.00114	mg/kg	1	10/10/18 20:28
4-Methyl-2-pentanone	ND	U	0.000143	0.00114	mg/kg	1	10/10/18 20:28
Acetone	ND	U	0.000345	0.00285	mg/kg	1	10/10/18 20:28
Benzene	ND	U	0.000104	0.00114	mg/kg	1	10/10/18 20:28
Bromochloromethane	ND	U	0.000210	0.00114	mg/kg	1	10/10/18 20:28
Bromodichloromethane	ND	U	0.000143	0.00114	mg/kg	1	10/10/18 20:28
Bromoform	ND	U	0.000200	0.00114	mg/kg	1	10/10/18 20:28
Bromomethane	ND	U	0.000329	0.00114	mg/kg	1	10/10/18 20:28
Carbon disulfide	ND	U	0.000164	0.00114	mg/kg	1	10/10/18 20:28
Carbon Tetrachloride	ND	U	0.000172	0.00114	mg/kg	1	10/10/18 20:28
Chlorobenzene	ND	U	0.000165	0.00114	mg/kg	1	10/10/18 20:28
Chlorodibromomethane	ND	U	0.000140	0.00114	mg/kg	1	10/10/18 20:28
Chloroethane	ND	U	0.000194	0.00114	mg/kg	1	10/10/18 20:28
Chloroform	ND	U	0.000192	0.00114	mg/kg	1	10/10/18 20:28
Chloromethane	ND	U	0.000439	0.00114	mg/kg	1	10/10/18 20:28
cis-1,2-Dichloroethene	ND	U	0.0000551	0.00114	mg/kg	1	10/10/18 20:28
cis-1,3-Dichloropropene	ND	U	0.000144	0.00114	mg/kg	1	10/10/18 20:28
Cyclohexane	ND	U	0.000253	0.00114	mg/kg	1	10/10/18 20:28
Dichlorodifluoromethane	ND	U	0.000385	0.00114	mg/kg	1	10/10/18 20:28
EthylBenzene	ND	U	0.000154	0.00114	mg/kg	1	10/10/18 20:28
Isopropylbenzene	ND	U	0.000179	0.00114	mg/kg	1	10/10/18 20:28
m+p-Xylenes	ND	U	0.000288	0.00228	mg/kg	1	10/10/18 20:28
Methyl Acetate	ND	U	0.000151	0.00114	mg/kg	1	10/10/18 20:28
Methyl tert-Butyl Ether	ND	U	0.000193	0.00114	mg/kg	1	10/10/18 20:28
Methylcyclohexane	ND	U	0.000184	0.00114	mg/kg	1	10/10/18 20:28
Methylene Chloride	ND	U	0.000343	0.00114	mg/kg	1	10/10/18 20:28
o-Xylene	ND	U	0.000147	0.00114	mg/kg	1	10/10/18 20:28
Styrene	ND	U	0.000163	0.00114	mg/kg	1	10/10/18 20:28
tert-Butyl alcohol	ND	U	0.00239	0.0114	mg/kg	1	10/10/18 20:28
Tetrachloroethene	ND	U	0.000113	0.00114	mg/kg	1	10/10/18 20:28
Toluene	ND	U	0.0000918	0.00114	mg/kg	1	10/10/18 20:28
Total Xylenes	ND	U	0.000147	0.00114	mg/kg	1	10/10/18 20:28
trans-1,2-Dichloroethene	ND	U	0.000154	0.00114	mg/kg	1	10/10/18 20:28
trans-1,3-Dichloropropene	ND	U	0.000218	0.00114	mg/kg	1	10/10/18 20:28
Trichloroethene	ND	U	0.000168	0.00114	mg/kg	1	10/10/18 20:28

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental **Work Order:** 8100452
Project: Ridgewood **Date to Lab:** 10/10/2018 3:40:00PM

8100452-06 (Soil) Sample Name: NTP-6 Collected: 10/10/2018 12:50:00PM

SW 846 8260C - Volatile Organics - GC/MS - VO+15 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Trichlorofluoromethane	ND	U	0.000131	0.00114	mg/kg	1	10/10/18 20:28
Vinyl chloride	ND	U	0.000217	0.00114	mg/kg	1	10/10/18 20:28

SW 846 8260C - Volatile Organics - GC/MS - VO+15 - TIC

Tentitively Identified Compound	Est Conc	RT	Qual	Units	Dilution	Analyzed
No TICs Found						

Gravimetric - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	**87.7**				**%**	**1**	**10/11/18 10:54**

SW 846 9014 - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Cyanide	ND		0.0855	0.285	mg/kg	1	10/11/18 13:30

8100452-07 (Soil) Sample Name: NTP-7 Collected: 10/10/2018 1:00:00PM

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	**65.8**		**10.9**	**21.9**	**mg/kg**	**1**	**10/11/18 16:35**

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	ND		0.0235	0.0479	mg/kg	1	10/11/18 12:43

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	**4450**		**0.0582**	**2.71**	**mg/kg**	**1**	**10/11/18 14:44**
Antimony	ND		0.00572	1.35	mg/kg	1	10/11/18 14:44
Arsenic	ND		0.0130	1.35	mg/kg	1	10/11/18 14:44
Barium	**21.4**		**0.00104**	**0.542**	**mg/kg**	**1**	**10/11/18 14:44**
Beryllium	**0.160**		**0.0000978**	**0.0271**	**mg/kg**	**1**	**10/11/18 14:44**
Cadmium	ND		0.000923	0.271	mg/kg	1	10/11/18 14:44
Calcium	**1080**		**0.308**	**27.1**	**mg/kg**	**1**	**10/11/18 14:44**
Chromium	**6.67**		**0.000974**	**0.271**	**mg/kg**	**1**	**10/11/18 14:44**
Cobalt	**3.01**		**0.00118**	**0.217**	**mg/kg**	**1**	**10/11/18 14:44**
Copper	**8.67**		**0.00117**	**0.271**	**mg/kg**	**1**	**10/11/18 14:44**
Iron	**8450**		**0.122**	**5.42**	**mg/kg**	**1**	**10/11/18 14:44**

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental **Work Order:** 8100452
Project: Ridgewood **Date to Lab:** 10/10/2018 3:40:00PM

8100452-07 (Soil) Sample Name: **NTP-7** Collected: **10/10/2018 1:00:00PM**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Lead	**11.3**		**0.00566**	**1.35**	**mg/kg**	**1**	**10/11/18 14:44**
Magnesium	**1090**		**0.789**	**54.2**	**mg/kg**	**1**	**10/11/18 14:44**
Manganese	**145**		**0.000671**	**0.271**	**mg/kg**	**1**	**10/11/18 14:44**
Nickel	**5.23**		**0.00186**	**0.135**	**mg/kg**	**1**	**10/11/18 14:44**
Potassium	**230**		**2.55**	**108**	**mg/kg**	**1**	**10/11/18 14:44**
Selenium	ND		0.0117	1.35	mg/kg	1	10/11/18 14:44
Silver	ND		0.00323	0.542	mg/kg	1	10/11/18 14:44
Sodium	**160**		**0.148**	**54.2**	**mg/kg**	**1**	**10/11/18 14:44**
Thallium	ND		0.00751	1.35	mg/kg	1	10/11/18 14:44
Vanadium	**12.8**		**0.00939**	**0.542**	**mg/kg**	**1**	**10/11/18 14:44**
Zinc	**21.1**		**0.00249**	**0.813**	**mg/kg**	**1**	**10/11/18 14:44**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1-Methylnaphthalene	ND	U	0.122	0.219	mg/kg	1	10/11/18 17:01
2-Methylnaphthalene	ND	U	0.0349	0.219	mg/kg	1	10/11/18 17:01
Acenaphthene	ND	U	0.00831	0.146	mg/kg	1	10/11/18 17:01
Acenaphthylene	ND	U	0.00507	0.146	mg/kg	1	10/11/18 17:01
Anthracene	ND	U	0.0211	0.146	mg/kg	1	10/11/18 17:01
Benzo(a)anthracene	**0.133**	**J**	**0.0147**	**0.146**	**mg/kg**	**1**	**10/11/18 17:01**
Benzo(a)pyrene	**0.105**	**J**	**0.0254**	**0.146**	**mg/kg**	**1**	**10/11/18 17:01**
Benzo(b)fluoranthene	**0.169**		**0.0205**	**0.146**	**mg/kg**	**1**	**10/11/18 17:01**
Benzo(g,h,i)perylene	**0.124**	**J**	**0.0118**	**0.146**	**mg/kg**	**1**	**10/11/18 17:01**
Benzo(k)fluoranthene	**0.106**	**J**	**0.0167**	**0.146**	**mg/kg**	**1**	**10/11/18 17:01**
Chrysene	**0.134**	**J**	**0.00998**	**0.146**	**mg/kg**	**1**	**10/11/18 17:01**
Dibenzo(a,h)anthracene	ND	U	0.0144	0.146	mg/kg	1	10/11/18 17:01
Fluoranthene	**0.193**		**0.0137**	**0.146**	**mg/kg**	**1**	**10/11/18 17:01**
Fluorene	ND	U	0.0122	0.146	mg/kg	1	10/11/18 17:01
Indeno(1,2,3-cd)pyrene	ND	U	0.0157	0.146	mg/kg	1	10/11/18 17:01
Naphthalene	ND	U	0.0108	0.146	mg/kg	1	10/11/18 17:01
Phenanthrene	**0.0964**	**J**	**0.0192**	**0.146**	**mg/kg**	**1**	**10/11/18 17:01**
Pyrene	**0.184**		**0.0107**	**0.146**	**mg/kg**	**1**	**10/11/18 17:01**

SW 846 8260C - Volatile Organics - GC/MS - VO+15

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1,1,1-Trichloroethane	ND	U	0.000155	0.00106	mg/kg	1	10/10/18 21:02
1,1,2,2-Tetrachloroethane	ND	U	0.000147	0.00106	mg/kg	1	10/10/18 21:02
1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	U	0.000455	0.00106	mg/kg	1	10/10/18 21:02

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-07 (Soil) Sample Name: **NTP-7** Collected: **10/10/2018 1:00:00PM**

SW 846 8260C - Volatile Organics - GC/MS - VO+15 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1,1,2-Trichloroethane	ND	U	0.000179	0.00106	mg/kg	1	10/10/18 21:02
1,1-Dichloroethane	ND	U	0.000155	0.00106	mg/kg	1	10/10/18 21:02
1,1-Dichloroethene	ND	U	0.000197	0.00106	mg/kg	1	10/10/18 21:02
1,2,3-Trichlorobenzene	ND	U	0.000230	0.00106	mg/kg	1	10/10/18 21:02
1,2,4-Trichlorobenzene	ND	U	0.000283	0.00106	mg/kg	1	10/10/18 21:02
1,2,4-Trimethylbenzene	ND	U	0.000147	0.00106	mg/kg	1	10/10/18 21:02
1,2-Dibromo-3-chloropropane	ND	U	0.000259	0.00106	mg/kg	1	10/10/18 21:02
1,2-Dibromoethane	ND	U	0.000134	0.00106	mg/kg	1	10/10/18 21:02
1,2-Dichlorobenzene	ND	U	0.000188	0.00106	mg/kg	1	10/10/18 21:02
1,2-Dichloroethane	ND	U	0.000150	0.00106	mg/kg	1	10/10/18 21:02
1,2-Dichloropropane	ND	U	0.000174	0.00106	mg/kg	1	10/10/18 21:02
1,3-Dichlorobenzene	ND	U	0.0000781	0.00106	mg/kg	1	10/10/18 21:02
1,4-Dichlorobenzene	ND	U	0.000153	0.00106	mg/kg	1	10/10/18 21:02
2-Butanone	ND	U	0.000173	0.00266	mg/kg	1	10/10/18 21:02
2-Hexanone	ND	U	0.0000994	0.00106	mg/kg	1	10/10/18 21:02
4-Methyl-2-pentanone	ND	U	0.000133	0.00106	mg/kg	1	10/10/18 21:02
Acetone	ND	U	0.000322	0.00266	mg/kg	1	10/10/18 21:02
Benzene	ND	U	0.0000967	0.00106	mg/kg	1	10/10/18 21:02
Bromochloromethane	ND	U	0.000196	0.00106	mg/kg	1	10/10/18 21:02
Bromodichloromethane	ND	U	0.000133	0.00106	mg/kg	1	10/10/18 21:02
Bromoform	ND	U	0.000187	0.00106	mg/kg	1	10/10/18 21:02
Bromomethane	ND	U	0.000307	0.00106	mg/kg	1	10/10/18 21:02
Carbon disulfide	ND	U	0.000153	0.00106	mg/kg	1	10/10/18 21:02
Carbon Tetrachloride	ND	U	0.000160	0.00106	mg/kg	1	10/10/18 21:02
Chlorobenzene	ND	U	0.000154	0.00106	mg/kg	1	10/10/18 21:02
Chlorodibromomethane	ND	U	0.000131	0.00106	mg/kg	1	10/10/18 21:02
Chloroethane	ND	U	0.000181	0.00106	mg/kg	1	10/10/18 21:02
Chloroform	ND	U	0.000179	0.00106	mg/kg	1	10/10/18 21:02
Chloromethane	ND	U	0.000409	0.00106	mg/kg	1	10/10/18 21:02
cis-1,2-Dichloroethene	ND	U	0.0000514	0.00106	mg/kg	1	10/10/18 21:02
cis-1,3-Dichloropropene	ND	U	0.000134	0.00106	mg/kg	1	10/10/18 21:02
Cyclohexane	ND	U	0.000235	0.00106	mg/kg	1	10/10/18 21:02
Dichlorodifluoromethane	ND	U	0.000359	0.00106	mg/kg	1	10/10/18 21:02
EthylBenzene	ND	U	0.000144	0.00106	mg/kg	1	10/10/18 21:02
Isopropylbenzene	ND	U	0.000167	0.00106	mg/kg	1	10/10/18 21:02
m+p-Xylenes	ND	U	0.000268	0.00213	mg/kg	1	10/10/18 21:02
Methyl Acetate	ND	U	0.000141	0.00106	mg/kg	1	10/10/18 21:02
Methyl tert-Butyl Ether	ND	U	0.000180	0.00106	mg/kg	1	10/10/18 21:02
Methylcyclohexane	ND	U	0.000171	0.00106	mg/kg	1	10/10/18 21:02

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E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental **Work Order:** 8100452
Project: Ridgewood **Date to Lab:** 10/10/2018 3:40:00PM

8100452-07 (Soil) Sample Name: NTP-7 Collected: 10/10/2018 1:00:00PM

SW 846 8260C - Volatile Organics - GC/MS - VO+15 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Methylene Chloride	ND	U	0.000319	0.00106	mg/kg	1	10/10/18 21:02
o-Xylene	ND	U	0.000137	0.00106	mg/kg	1	10/10/18 21:02
Styrene	ND	U	0.000152	0.00106	mg/kg	1	10/10/18 21:02
tert-Butyl alcohol	ND	U	0.00223	0.0106	mg/kg	1	10/10/18 21:02
Tetrachloroethene	ND	U	0.000105	0.00106	mg/kg	1	10/10/18 21:02
Toluene	ND	U	0.0000856	0.00106	mg/kg	1	10/10/18 21:02
Total Xylenes	ND	U	0.000137	0.00106	mg/kg	1	10/10/18 21:02
trans-1,2-Dichloroethene	ND	U	0.000144	0.00106	mg/kg	1	10/10/18 21:02
trans-1,3-Dichloropropene	ND	U	0.000203	0.00106	mg/kg	1	10/10/18 21:02
Trichloroethene	ND	U	0.000156	0.00106	mg/kg	1	10/10/18 21:02
Trichlorofluoromethane	ND	U	0.000122	0.00106	mg/kg	1	10/10/18 21:02
Vinyl chloride	ND	U	0.000202	0.00106	mg/kg	1	10/10/18 21:02

SW 846 8260C - Volatile Organics - GC/MS - VO+15 - TIC

Tentitively Identified Compound	Est Conc	RT	Qual	Units	Dilution	Analyzed
No TICs Found						

Gravimetric - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	**91.4**				**%**	**1**	**10/11/18 10:54**

8100452-08 (Soil) Sample Name: STP-1B Collected: 10/10/2018 1:15:00PM

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	ND	U	11.2	22.3	mg/kg	1	10/11/18 17:10

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	ND		0.0224	0.0457	mg/kg	1	10/11/18 12:46

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	**5040**		**0.0576**	**2.68**	**mg/kg**	**1**	**10/11/18 14:46**
Antimony	ND		0.00567	1.34	mg/kg	1	10/11/18 14:46
Arsenic	ND		0.0129	1.34	mg/kg	1	10/11/18 14:46
Barium	**20.2**		**0.00103**	**0.537**	**mg/kg**	**1**	**10/11/18 14:46**
Beryllium	**0.191**		**0.0000968**	**0.0268**	**mg/kg**	**1**	**10/11/18 14:46**

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental **Work Order:** 8100452
Project: Ridgewood **Date to Lab:** 10/10/2018 3:40:00PM

8100452-08 (Soil) Sample Name: **STP-1B** Collected: **10/10/2018 1:15:00PM**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Cadmium	ND		0.000914	0.268	mg/kg	1	10/11/18 14:46
Calcium	**453**		**0.305**	**26.8**	**mg/kg**	**1**	**10/11/18 14:46**
Chromium	**7.08**		**0.000965**	**0.268**	**mg/kg**	**1**	**10/11/18 14:46**
Cobalt	**3.03**		**0.00117**	**0.215**	**mg/kg**	**1**	**10/11/18 14:46**
Copper	**7.22**		**0.00116**	**0.268**	**mg/kg**	**1**	**10/11/18 14:46**
Iron	**9500**		**0.121**	**5.37**	**mg/kg**	**1**	**10/11/18 14:46**
Lead	**4.88**		**0.00560**	**1.34**	**mg/kg**	**1**	**10/11/18 14:46**
Magnesium	**966**		**0.781**	**53.7**	**mg/kg**	**1**	**10/11/18 14:46**
Manganese	**144**		**0.000664**	**0.268**	**mg/kg**	**1**	**10/11/18 14:46**
Nickel	**5.18**		**0.00185**	**0.134**	**mg/kg**	**1**	**10/11/18 14:46**
Potassium	**260**		**2.52**	**107**	**mg/kg**	**1**	**10/11/18 14:46**
Selenium	ND		0.0116	1.34	mg/kg	1	10/11/18 14:46
Silver	ND		0.00320	0.537	mg/kg	1	10/11/18 14:46
Sodium	**72.2**		**0.147**	**53.7**	**mg/kg**	**1**	**10/11/18 14:46**
Thallium	ND		0.00744	1.34	mg/kg	1	10/11/18 14:46
Vanadium	**13.0**		**0.00929**	**0.537**	**mg/kg**	**1**	**10/11/18 14:46**
Zinc	**23.5**		**0.00247**	**0.805**	**mg/kg**	**1**	**10/11/18 14:46**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1-Methylnaphthalene	ND	U	0.124	0.223	mg/kg	1	10/11/18 17:29
2-Methylnaphthalene	ND	U	0.0356	0.223	mg/kg	1	10/11/18 17:29
Acenaphthene	ND	U	0.00847	0.148	mg/kg	1	10/11/18 17:29
Acenaphthylene	ND	U	0.00517	0.148	mg/kg	1	10/11/18 17:29
Anthracene	ND	U	0.0215	0.148	mg/kg	1	10/11/18 17:29
Benzo(a)anthracene	ND	U	0.0150	0.148	mg/kg	1	10/11/18 17:29
Benzo(a)pyrene	ND	U	0.0259	0.148	mg/kg	1	10/11/18 17:29
Benzo(b)fluoranthene	ND	U	0.0209	0.148	mg/kg	1	10/11/18 17:29
Benzo(g,h,i)perylene	ND	U	0.0121	0.148	mg/kg	1	10/11/18 17:29
Benzo(k)fluoranthene	ND	U	0.0171	0.148	mg/kg	1	10/11/18 17:29
Chrysene	ND	U	0.0102	0.148	mg/kg	1	10/11/18 17:29
Dibenzo(a,h)anthracene	ND	U	0.0147	0.148	mg/kg	1	10/11/18 17:29
Fluoranthene	ND	U	0.0140	0.148	mg/kg	1	10/11/18 17:29
Fluorene	ND	U	0.0124	0.148	mg/kg	1	10/11/18 17:29
Indeno(1,2,3-cd)pyrene	ND	U	0.0160	0.148	mg/kg	1	10/11/18 17:29
Naphthalene	ND	U	0.0110	0.148	mg/kg	1	10/11/18 17:29
Phenanthrene	ND	U	0.0195	0.148	mg/kg	1	10/11/18 17:29
Pyrene	ND	U	0.0109	0.148	mg/kg	1	10/11/18 17:29

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-08 (Soil) Sample Name: **STP-1B** Collected: **10/10/2018 1:15:00PM**

SW 846 8260C - Volatile Organics - GC/MS - VO+15

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1,1,1-Trichloroethane	ND	U	0.000397	0.00272	mg/kg	1	10/11/18 13:34
1,1,2,2-Tetrachloroethane	ND	U	0.000376	0.00272	mg/kg	1	10/11/18 13:34
1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	U	0.00117	0.00272	mg/kg	1	10/11/18 13:34
1,1,2-Trichloroethane	ND	U	0.000459	0.00272	mg/kg	1	10/11/18 13:34
1,1-Dichloroethane	ND	U	0.000397	0.00272	mg/kg	1	10/11/18 13:34
1,1-Dichloroethene	ND	U	0.000504	0.00272	mg/kg	1	10/11/18 13:34
1,2,3-Trichlorobenzene	ND	U	0.000588	0.00272	mg/kg	1	10/11/18 13:34
1,2,4-Trichlorobenzene	ND	U	0.000726	0.00272	mg/kg	1	10/11/18 13:34
1,2,4-Trimethylbenzene	ND	U	0.000376	0.00272	mg/kg	1	10/11/18 13:34
1,2-Dibromo-3-chloropropane	ND	U	0.000664	0.00272	mg/kg	1	10/11/18 13:34
1,2-Dibromoethane	ND	U	0.000343	0.00272	mg/kg	1	10/11/18 13:34
1,2-Dichlorobenzene	ND	U	0.000481	0.00272	mg/kg	1	10/11/18 13:34
1,2-Dichloroethane	ND	U	0.000384	0.00272	mg/kg	1	10/11/18 13:34
1,2-Dichloropropane	ND	U	0.000446	0.00272	mg/kg	1	10/11/18 13:34
1,3-Dichlorobenzene	ND	U	0.000200	0.00272	mg/kg	1	10/11/18 13:34
1,4-Dichlorobenzene	ND	U	0.000392	0.00272	mg/kg	1	10/11/18 13:34
2-Butanone	ND	U	0.000444	0.00681	mg/kg	1	10/11/18 13:34
2-Hexanone	ND	U	0.000255	0.00272	mg/kg	1	10/11/18 13:34
4-Methyl-2-pentanone	ND	U	0.000340	0.00272	mg/kg	1	10/11/18 13:34
Acetone	ND	U	0.000825	0.00681	mg/kg	1	10/11/18 13:34
Benzene	ND	U	0.000248	0.00272	mg/kg	1	10/11/18 13:34
Bromochloromethane	ND	U	0.000502	0.00272	mg/kg	1	10/11/18 13:34
Bromodichloromethane	ND	U	0.000342	0.00272	mg/kg	1	10/11/18 13:34
Bromoform	ND	U	0.000478	0.00272	mg/kg	1	10/11/18 13:34
Bromomethane	ND	U	0.000785	0.00272	mg/kg	1	10/11/18 13:34
Carbon disulfide	ND	U	0.000391	0.00272	mg/kg	1	10/11/18 13:34
Carbon Tetrachloride	ND	U	0.000410	0.00272	mg/kg	1	10/11/18 13:34
Chlorobenzene	ND	U	0.000395	0.00272	mg/kg	1	10/11/18 13:34
Chlorodibromomethane	ND	U	0.000335	0.00272	mg/kg	1	10/11/18 13:34
Chloroethane	ND	U	0.000464	0.00272	mg/kg	1	10/11/18 13:34
Chloroform	ND	U	0.000457	0.00272	mg/kg	1	10/11/18 13:34
Chloromethane	ND	U	0.00105	0.00272	mg/kg	1	10/11/18 13:34
cis-1,2-Dichloroethene	ND	U	0.000132	0.00272	mg/kg	1	10/11/18 13:34
cis-1,3-Dichloropropene	ND	U	0.000344	0.00272	mg/kg	1	10/11/18 13:34
Cyclohexane	ND	U	0.000603	0.00272	mg/kg	1	10/11/18 13:34
Dichlorodifluoromethane	ND	U	0.000919	0.00272	mg/kg	1	10/11/18 13:34
EthylBenzene	ND	U	0.000369	0.00272	mg/kg	1	10/11/18 13:34
Isopropylbenzene	ND	U	0.000427	0.00272	mg/kg	1	10/11/18 13:34

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental **Work Order:** 8100452
Project: Ridgewood **Date to Lab:** 10/10/2018 3:40:00PM

8100452-08 (Soil) Sample Name: **STP-1B** Collected: **10/10/2018 1:15:00PM**

SW 846 8260C - Volatile Organics - GC/MS - VO+15 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
m+p-Xylenes	ND	U	0.000687	0.00544	mg/kg	1	10/11/18 13:34
Methyl Acetate	ND	U	0.000361	0.00272	mg/kg	1	10/11/18 13:34
Methyl tert-Butyl Ether	ND	U	0.000460	0.00272	mg/kg	1	10/11/18 13:34
Methylcyclohexane	ND	U	0.000438	0.00272	mg/kg	1	10/11/18 13:34
Methylene Chloride	ND	U	0.000818	0.00272	mg/kg	1	10/11/18 13:34
o-Xylene	ND	U	0.000350	0.00272	mg/kg	1	10/11/18 13:34
Styrene	ND	U	0.000389	0.00272	mg/kg	1	10/11/18 13:34
tert-Butyl alcohol	ND	U	0.00572	0.0272	mg/kg	1	10/11/18 13:34
Tetrachloroethene	ND	U	0.000270	0.00272	mg/kg	1	10/11/18 13:34
Toluene	ND	U	0.000219	0.00272	mg/kg	1	10/11/18 13:34
Total Xylenes	ND	U	0.000350	0.00272	mg/kg	1	10/11/18 13:34
trans-1,2-Dichloroethene	ND	U	0.000369	0.00272	mg/kg	1	10/11/18 13:34
trans-1,3-Dichloropropene	ND	U	0.000520	0.00272	mg/kg	1	10/11/18 13:34
Trichloroethene	ND	U	0.000400	0.00272	mg/kg	1	10/11/18 13:34
Trichlorofluoromethane	ND	U	0.000313	0.00272	mg/kg	1	10/11/18 13:34
Vinyl chloride	ND	U	0.000517	0.00272	mg/kg	1	10/11/18 13:34

SW 846 8260C - Volatile Organics - GC/MS - VO+15 - TIC

Tentitively Identified Compound	Est Conc	RT	Qual	Units	Dilution	Analyzed
No TICs Found						

Gravimetric - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	**89.6**				**%**	**1**	**10/11/18 10:54**

8100452-09 (Soil) Sample Name: **STP-2B** Collected: **10/10/2018 1:30:00PM**

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	ND	U	10.9	21.8	mg/kg	1	10/12/18 11:28

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	ND		0.0252	0.0514	mg/kg	1	10/11/18 12:49

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-09 (Soil) Sample Name: **STP-2B** Collected: **10/10/2018 1:30:00PM**

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	**5700**		**0.0631**	**2.94**	**mg/kg**	**1**	**10/11/18 14:48**
Antimony	ND		0.00620	1.47	mg/kg	1	10/11/18 14:48
Arsenic	ND		0.0141	1.47	mg/kg	1	10/11/18 14:48
Barium	**23.4**		**0.00113**	**0.587**	**mg/kg**	**1**	**10/11/18 14:48**
Beryllium	**0.223**		**0.000106**	**0.0294**	**mg/kg**	**1**	**10/11/18 14:48**
Cadmium	ND		0.00100	0.294	mg/kg	1	10/11/18 14:48
Calcium	**473**		**0.334**	**29.4**	**mg/kg**	**1**	**10/11/18 14:48**
Chromium	**7.63**		**0.00106**	**0.294**	**mg/kg**	**1**	**10/11/18 14:48**
Cobalt	**3.23**		**0.00128**	**0.235**	**mg/kg**	**1**	**10/11/18 14:48**
Copper	**8.57**		**0.00127**	**0.294**	**mg/kg**	**1**	**10/11/18 14:48**
Iron	**11100**		**0.133**	**5.87**	**mg/kg**	**1**	**10/11/18 14:48**
Lead	**6.05**		**0.00613**	**1.47**	**mg/kg**	**1**	**10/11/18 14:48**
Magnesium	**1070**		**0.855**	**58.7**	**mg/kg**	**1**	**10/11/18 14:48**
Manganese	**187**		**0.000727**	**0.294**	**mg/kg**	**1**	**10/11/18 14:48**
Nickel	**5.76**		**0.00202**	**0.147**	**mg/kg**	**1**	**10/11/18 14:48**
Potassium	**271**		**2.76**	**117**	**mg/kg**	**1**	**10/11/18 14:48**
Selenium	ND		0.0127	1.47	mg/kg	1	10/11/18 14:48
Silver	ND		0.00350	0.587	mg/kg	1	10/11/18 14:48
Sodium	**74.3**		**0.161**	**58.7**	**mg/kg**	**1**	**10/11/18 14:48**
Thallium	ND		0.00814	1.47	mg/kg	1	10/11/18 14:48
Vanadium	**13.9**		**0.0102**	**0.587**	**mg/kg**	**1**	**10/11/18 14:48**
Zinc	**38.2**		**0.00270**	**0.881**	**mg/kg**	**1**	**10/11/18 14:48**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1-Methylnaphthalene	ND	U	0.121	0.218	mg/kg	1	10/11/18 17:26
2-Methylnaphthalene	ND	U	0.0348	0.218	mg/kg	1	10/11/18 17:26
Acenaphthene	ND	U	0.00829	0.145	mg/kg	1	10/11/18 17:26
Acenaphthylene	ND	U	0.00506	0.145	mg/kg	1	10/11/18 17:26
Anthracene	ND	U	0.0211	0.145	mg/kg	1	10/11/18 17:26
Benzo(a)anthracene	ND	U	0.0146	0.145	mg/kg	1	10/11/18 17:26
Benzo(a)pyrene	ND	U	0.0253	0.145	mg/kg	1	10/11/18 17:26
Benzo(b)fluoranthene	ND	U	0.0204	0.145	mg/kg	1	10/11/18 17:26
Benzo(g,h,i)perylene	ND	U	0.0118	0.145	mg/kg	1	10/11/18 17:26
Benzo(k)fluoranthene	ND	U	0.0167	0.145	mg/kg	1	10/11/18 17:26
Chrysene	ND	U	0.00996	0.145	mg/kg	1	10/11/18 17:26
Dibenzo(a,h)anthracene	ND	U	0.0144	0.145	mg/kg	1	10/11/18 17:26
Fluoranthene	ND	U	0.0137	0.145	mg/kg	1	10/11/18 17:26
Fluorene	ND	U	0.0121	0.145	mg/kg	1	10/11/18 17:26

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-09 (Soil) Sample Name: **STP-2B** Collected: **10/10/2018 1:30:00PM**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Indeno(1,2,3-cd)pyrene	ND	U	0.0156	0.145	mg/kg	1	10/11/18 17:26
Naphthalene	ND	U	0.0108	0.145	mg/kg	1	10/11/18 17:26
Phenanthrene	ND	U	0.0191	0.145	mg/kg	1	10/11/18 17:26
Pyrene	ND	U	0.0107	0.145	mg/kg	1	10/11/18 17:26

Gravimetric - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	**91.5**				**%**	**1**	**10/11/18 10:54**

8100452-10 (Soil) Sample Name: **STP-3B** Collected: **10/10/2018 1:40:00PM**

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	ND	U	10.9	21.9	mg/kg	1	10/12/18 12:03

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	**0.0562**		**0.0235**	**0.0478**	**mg/kg**	**1**	**10/11/18 12:53**

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	**4900**		**0.0556**	**2.59**	**mg/kg**	**1**	**10/11/18 14:50**
Antimony	ND		0.00547	1.29	mg/kg	1	10/11/18 14:50
Arsenic	**1.65**		**0.0124**	**1.29**	**mg/kg**	**1**	**10/11/18 14:50**
Barium	**19.4**		**0.000998**	**0.518**	**mg/kg**	**1**	**10/11/18 14:50**
Beryllium	**0.184**		**0.0000934**	**0.0259**	**mg/kg**	**1**	**10/11/18 14:50**
Cadmium	ND		0.000882	0.259	mg/kg	1	10/11/18 14:50
Calcium	**463**		**0.294**	**25.9**	**mg/kg**	**1**	**10/11/18 14:50**
Chromium	**6.68**		**0.000931**	**0.259**	**mg/kg**	**1**	**10/11/18 14:50**
Cobalt	**2.90**		**0.00113**	**0.207**	**mg/kg**	**1**	**10/11/18 14:50**
Copper	**7.66**		**0.00112**	**0.259**	**mg/kg**	**1**	**10/11/18 14:50**
Iron	**9550**		**0.117**	**5.18**	**mg/kg**	**1**	**10/11/18 14:50**
Lead	**6.01**		**0.00541**	**1.29**	**mg/kg**	**1**	**10/11/18 14:50**
Magnesium	**977**		**0.754**	**51.8**	**mg/kg**	**1**	**10/11/18 14:50**
Manganese	**163**		**0.000641**	**0.259**	**mg/kg**	**1**	**10/11/18 14:50**
Nickel	**5.18**		**0.00178**	**0.129**	**mg/kg**	**1**	**10/11/18 14:50**
Potassium	**272**		**2.43**	**104**	**mg/kg**	**1**	**10/11/18 14:50**
Selenium	ND		0.0112	1.29	mg/kg	1	10/11/18 14:50

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-10 (Soil) Sample Name: **STP-3B** Collected: **10/10/2018 1:40:00PM**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Silver	ND		0.00309	0.518	mg/kg	1	10/11/18 14:50
Sodium	**74.0**		**0.142**	**51.8**	**mg/kg**	**1**	**10/11/18 14:50**
Thallium	ND		0.00718	1.29	mg/kg	1	10/11/18 14:50
Vanadium	**12.7**		**0.00897**	**0.518**	**mg/kg**	**1**	**10/11/18 14:50**
Zinc	**21.0**		**0.00238**	**0.777**	**mg/kg**	**1**	**10/11/18 14:50**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1-Methylnaphthalene	ND	U	0.121	0.219	mg/kg	1	10/11/18 14:58
2-Methylnaphthalene	ND	U	0.0349	0.219	mg/kg	1	10/11/18 14:58
Acenaphthene	ND	U	0.00829	0.145	mg/kg	1	10/11/18 14:58
Acenaphthylene	ND	U	0.00506	0.145	mg/kg	1	10/11/18 14:58
Anthracene	ND	U	0.0211	0.145	mg/kg	1	10/11/18 14:58
Benzo(a)anthracene	ND	U	0.0146	0.145	mg/kg	1	10/11/18 14:58
Benzo(a)pyrene	ND	U	0.0253	0.145	mg/kg	1	10/11/18 14:58
Benzo(b)fluoranthene	ND	U	0.0204	0.145	mg/kg	1	10/11/18 14:58
Benzo(g,h,i)perylene	ND	U	0.0118	0.145	mg/kg	1	10/11/18 14:58
Benzo(k)fluoranthene	ND	U	0.0167	0.145	mg/kg	1	10/11/18 14:58
Chrysene	ND	U	0.00996	0.145	mg/kg	1	10/11/18 14:58
Dibenzo(a,h)anthracene	ND	U	0.0144	0.145	mg/kg	1	10/11/18 14:58
Fluoranthene	ND	U	0.0137	0.145	mg/kg	1	10/11/18 14:58
Fluorene	ND	U	0.0121	0.145	mg/kg	1	10/11/18 14:58
Indeno(1,2,3-cd)pyrene	ND	U	0.0156	0.145	mg/kg	1	10/11/18 14:58
Naphthalene	ND	U	0.0108	0.145	mg/kg	1	10/11/18 14:58
Phenanthrene	ND	U	0.0191	0.145	mg/kg	1	10/11/18 14:58
Pyrene	ND	U	0.0107	0.145	mg/kg	1	10/11/18 14:58

Gravimetric - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	**91.5**				**%**	**1**	**10/11/18 10:54**

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

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All Results Summary

Client: Peak Environmental **Work Order:** 8100452
Project: Ridgewood **Date to Lab:** 10/10/2018 3:40:00PM

8100452-11 (Soil) Sample Name: **STP-4A** Collected: **10/10/2018 12:00:00AM**

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	ND	U	11.0	22.1	mg/kg	1	10/12/18 12:38

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	ND		0.0265	0.0540	mg/kg	1	10/11/18 12:56

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	**6100**		**0.0608**	**2.83**	**mg/kg**	**1**	**10/11/18 15:31**
Antimony	ND		0.00598	1.41	mg/kg	1	10/11/18 15:31
Arsenic	ND		0.0136	1.41	mg/kg	1	10/11/18 15:31
Barium	**23.3**		**0.00109**	**0.566**	**mg/kg**	**1**	**10/11/18 15:31**
Beryllium	**0.215**		**0.000102**	**0.0283**	**mg/kg**	**1**	**10/11/18 15:31**
Cadmium	ND		0.000964	0.283	mg/kg	1	10/11/18 15:31
Calcium	**634**		**0.321**	**28.3**	**mg/kg**	**1**	**10/11/18 15:31**
Chromium	**8.26**		**0.00102**	**0.283**	**mg/kg**	**1**	**10/11/18 15:31**
Cobalt	**3.51**		**0.00123**	**0.226**	**mg/kg**	**1**	**10/11/18 15:31**
Copper	**9.17**		**0.00122**	**0.283**	**mg/kg**	**1**	**10/11/18 15:31**
Iron	**10900**		**0.128**	**5.66**	**mg/kg**	**1**	**10/11/18 15:31**
Lead	**10.6**		**0.00591**	**1.41**	**mg/kg**	**1**	**10/11/18 15:31**
Magnesium	**1110**		**0.824**	**56.6**	**mg/kg**	**1**	**10/11/18 15:31**
Manganese	**209**		**0.000701**	**0.283**	**mg/kg**	**1**	**10/11/18 15:31**
Nickel	**6.25**		**0.00195**	**0.141**	**mg/kg**	**1**	**10/11/18 15:31**
Potassium	**286**		**2.66**	**113**	**mg/kg**	**1**	**10/11/18 15:31**
Selenium	ND		0.0122	1.41	mg/kg	1	10/11/18 15:31
Silver	ND		0.00337	0.566	mg/kg	1	10/11/18 15:31
Sodium	**85.2**		**0.155**	**56.6**	**mg/kg**	**1**	**10/11/18 15:31**
Thallium	ND		0.00784	1.41	mg/kg	1	10/11/18 15:31
Vanadium	**15.4**		**0.00980**	**0.566**	**mg/kg**	**1**	**10/11/18 15:31**
Zinc	**20.4**		**0.00260**	**0.849**	**mg/kg**	**1**	**10/11/18 15:31**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1-Methylnaphthalene	ND	U	0.122	0.221	mg/kg	1	10/11/18 15:28
2-Methylnaphthalene	ND	U	0.0352	0.221	mg/kg	1	10/11/18 15:28
Acenaphthene	ND	U	0.00837	0.147	mg/kg	1	10/11/18 15:28
Acenaphthylene	ND	U	0.00511	0.147	mg/kg	1	10/11/18 15:28
Anthracene	ND	U	0.0213	0.147	mg/kg	1	10/11/18 15:28
Benzo(a)anthracene	ND	U	0.0148	0.147	mg/kg	1	10/11/18 15:28

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-11 (Soil) Sample Name: **STP-4A** Collected: **10/10/2018 12:00:00AM**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Benzo(a)pyrene	ND	U	0.0256	0.147	mg/kg	1	10/11/18 15:28
Benzo(b)fluoranthene	ND	U	0.0206	0.147	mg/kg	1	10/11/18 15:28
Benzo(g,h,i)perylene	ND	U	0.0119	0.147	mg/kg	1	10/11/18 15:28
Benzo(k)fluoranthene	ND	U	0.0169	0.147	mg/kg	1	10/11/18 15:28
Chrysene	ND	U	0.0101	0.147	mg/kg	1	10/11/18 15:28
Dibenzo(a,h)anthracene	ND	U	0.0146	0.147	mg/kg	1	10/11/18 15:28
Fluoranthene	ND	U	0.0138	0.147	mg/kg	1	10/11/18 15:28
Fluorene	ND	U	0.0122	0.147	mg/kg	1	10/11/18 15:28
Indeno(1,2,3-cd)pyrene	ND	U	0.0158	0.147	mg/kg	1	10/11/18 15:28
Naphthalene	ND	U	0.0109	0.147	mg/kg	1	10/11/18 15:28
Phenanthrene	ND	U	0.0193	0.147	mg/kg	1	10/11/18 15:28
Pyrene	ND	U	0.0108	0.147	mg/kg	1	10/11/18 15:28

SW 846 8260C - Volatile Organics - GC/MS - VO+15

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1,1,1-Trichloroethane	ND	U	0.000109	0.000746	mg/kg	1	10/10/18 22:01
1,1,2,2-Tetrachloroethane	ND	U	0.000103	0.000746	mg/kg	1	10/10/18 22:01
1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	U	0.000319	0.000746	mg/kg	1	10/10/18 22:01
1,1,2-Trichloroethane	ND	U	0.000126	0.000746	mg/kg	1	10/10/18 22:01
1,1-Dichloroethane	ND	U	0.000109	0.000746	mg/kg	1	10/10/18 22:01
1,1-Dichloroethene	ND	U	0.000138	0.000746	mg/kg	1	10/10/18 22:01
1,2,3-Trichlorobenzene	ND	U	0.000161	0.000746	mg/kg	1	10/10/18 22:01
1,2,4-Trichlorobenzene	ND	U	0.000199	0.000746	mg/kg	1	10/10/18 22:01
1,2,4-Trimethylbenzene	ND	U	0.000103	0.000746	mg/kg	1	10/10/18 22:01
1,2-Dibromo-3-chloropropane	ND	U	0.000182	0.000746	mg/kg	1	10/10/18 22:01
1,2-Dibromoethane	ND	U	0.0000939	0.000746	mg/kg	1	10/10/18 22:01
1,2-Dichlorobenzene	ND	U	0.000132	0.000746	mg/kg	1	10/10/18 22:01
1,2-Dichloroethane	ND	U	0.000105	0.000746	mg/kg	1	10/10/18 22:01
1,2-Dichloropropane	ND	U	0.000122	0.000746	mg/kg	1	10/10/18 22:01
1,3-Dichlorobenzene	ND	U	0.0000548	0.000746	mg/kg	1	10/10/18 22:01
1,4-Dichlorobenzene	ND	U	0.000107	0.000746	mg/kg	1	10/10/18 22:01
2-Butanone	ND	U	0.000122	0.00186	mg/kg	1	10/10/18 22:01
2-Hexanone	ND	U	0.0000697	0.000746	mg/kg	1	10/10/18 22:01
4-Methyl-2-pentanone	ND	U	0.0000932	0.000746	mg/kg	1	10/10/18 22:01
Acetone	ND	U	0.000226	0.00186	mg/kg	1	10/10/18 22:01
Benzene	ND	U	0.0000678	0.000746	mg/kg	1	10/10/18 22:01
Bromochloromethane	ND	U	0.000138	0.000746	mg/kg	1	10/10/18 22:01
Bromodichloromethane	ND	U	0.0000936	0.000746	mg/kg	1	10/10/18 22:01

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-11 (Soil) Sample Name: **STP-4A** Collected: **10/10/2018 12:00:00AM**

SW 846 8260C - Volatile Organics - GC/MS - VO+15 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Bromoform	ND	U	0.000131	0.000746	mg/kg	1	10/10/18 22:01
Bromomethane	ND	U	0.000215	0.000746	mg/kg	1	10/10/18 22:01
Carbon disulfide	ND	U	0.000107	0.000746	mg/kg	1	10/10/18 22:01
Carbon Tetrachloride	ND	U	0.000112	0.000746	mg/kg	1	10/10/18 22:01
Chlorobenzene	ND	U	0.000108	0.000746	mg/kg	1	10/10/18 22:01
Chlorodibromomethane	ND	U	0.0000917	0.000746	mg/kg	1	10/10/18 22:01
Chloroethane	ND	U	0.000127	0.000746	mg/kg	1	10/10/18 22:01
Chloroform	ND	U	0.000125	0.000746	mg/kg	1	10/10/18 22:01
Chloromethane	ND	U	0.000287	0.000746	mg/kg	1	10/10/18 22:01
cis-1,2-Dichloroethene	ND	U	0.0000360	0.000746	mg/kg	1	10/10/18 22:01
cis-1,3-Dichloropropene	ND	U	0.0000943	0.000746	mg/kg	1	10/10/18 22:01
Cyclohexane	ND	U	0.000165	0.000746	mg/kg	1	10/10/18 22:01
Dichlorodifluoromethane	ND	U	0.000252	0.000746	mg/kg	1	10/10/18 22:01
EthylBenzene	ND	U	0.000101	0.000746	mg/kg	1	10/10/18 22:01
Isopropylbenzene	ND	U	0.000117	0.000746	mg/kg	1	10/10/18 22:01
m+p-Xylenes	ND	U	0.000188	0.00149	mg/kg	1	10/10/18 22:01
Methyl Acetate	ND	U	0.0000988	0.000746	mg/kg	1	10/10/18 22:01
Methyl tert-Butyl Ether	ND	U	0.000126	0.000746	mg/kg	1	10/10/18 22:01
Methylcyclohexane	ND	U	0.000120	0.000746	mg/kg	1	10/10/18 22:01
Methylene Chloride	ND	U	0.000224	0.000746	mg/kg	1	10/10/18 22:01
o-Xylene	ND	U	0.0000958	0.000746	mg/kg	1	10/10/18 22:01
Styrene	ND	U	0.000107	0.000746	mg/kg	1	10/10/18 22:01
tert-Butyl alcohol	ND	U	0.00157	0.00746	mg/kg	1	10/10/18 22:01
Tetrachloroethene	ND	U	0.0000738	0.000746	mg/kg	1	10/10/18 22:01
Toluene	ND	U	0.0000600	0.000746	mg/kg	1	10/10/18 22:01
Total Xylenes	ND	U	0.0000958	0.000746	mg/kg	1	10/10/18 22:01
trans-1,2-Dichloroethene	ND	U	0.000101	0.000746	mg/kg	1	10/10/18 22:01
trans-1,3-Dichloropropene	ND	U	0.000142	0.000746	mg/kg	1	10/10/18 22:01
Trichloroethene	ND	U	0.000110	0.000746	mg/kg	1	10/10/18 22:01
Trichlorofluoromethane	ND	U	0.0000857	0.000746	mg/kg	1	10/10/18 22:01
Vinyl chloride	ND	U	0.000142	0.000746	mg/kg	1	10/10/18 22:01

SW 846 8260C - Volatile Organics - GC/MS - VO+15 - TIC

Tentitively Identified Compound	Est Conc	RT	Qual	Units	Dilution	Analyzed
No TICs Found						

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

All Results Summary

Client: Peak Environmental **Work Order:** 8100452
Project: Ridgewood **Date to Lab:** 10/10/2018 3:40:00PM

8100452-11 (Soil) Sample Name: **STP-4A** Collected: **10/10/2018 12:00:00AM**

Gravimetric - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	**90.6**				**%**	**1**	**10/11/18 10:54**

8100452-12 (Soil) Sample Name: **STP-4B** Collected: **10/10/2018 12:00:00AM**

SW 846 8082A - PCBs

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aroclor-1016	ND	U	0.000641	0.0360	mg/kg	1	10/11/18 14:52
Aroclor-1221	ND	U	0.00111	0.0360	mg/kg	1	10/11/18 14:52
Aroclor-1232	ND	U	0.000847	0.0360	mg/kg	1	10/11/18 14:52
Aroclor-1242	ND	U	0.00122	0.0360	mg/kg	1	10/11/18 14:52
Aroclor-1248	ND	U	0.000844	0.0360	mg/kg	1	10/11/18 14:52
Aroclor-1254	ND	U	0.00128	0.0360	mg/kg	1	10/11/18 14:52
Aroclor-1260	ND	U	0.000949	0.0360	mg/kg	1	10/11/18 14:52
Aroclor-1262	ND	U	0.00139	0.0360	mg/kg	1	10/11/18 14:52
Aroclor-1268	ND	U	0.000727	0.0360	mg/kg	1	10/11/18 14:52
Total PCBs	ND	U	0.000641	0.0360	mg/kg	1	10/11/18 14:52

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	ND	U	10.9	21.8	mg/kg	1	10/12/18 13:13

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	ND		0.0243	0.0495	mg/kg	1	10/11/18 12:59

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	**5610**		**0.0580**	**2.70**	**mg/kg**	**1**	**10/11/18 15:33**
Antimony	ND		0.00570	1.35	mg/kg	1	10/11/18 15:33
Arsenic	ND		0.0130	1.35	mg/kg	1	10/11/18 15:33
Barium	**24.9**		**0.00104**	**0.540**	**mg/kg**	**1**	**10/11/18 15:33**
Beryllium	**0.211**		**0.0000974**	**0.0270**	**mg/kg**	**1**	**10/11/18 15:33**
Cadmium	ND		0.000920	0.270	mg/kg	1	10/11/18 15:33
Calcium	**899**		**0.307**	**27.0**	**mg/kg**	**1**	**10/11/18 15:33**
Chromium	**7.75**		**0.000971**	**0.270**	**mg/kg**	**1**	**10/11/18 15:33**
Cobalt	**3.46**		**0.00118**	**0.216**	**mg/kg**	**1**	**10/11/18 15:33**
Copper	**8.07**		**0.00117**	**0.270**	**mg/kg**	**1**	**10/11/18 15:33**
Iron	**10600**		**0.122**	**5.40**	**mg/kg**	**1**	**10/11/18 15:33**

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-12 (Soil) Sample Name: **STP-4B** Collected: **10/10/2018 12:00:00AM**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Lead	**8.26**		**0.00564**	**1.35**	**mg/kg**	**1**	**10/11/18 15:33**
Magnesium	**1220**		**0.786**	**54.0**	**mg/kg**	**1**	**10/11/18 15:33**
Manganese	**261**		**0.000668**	**0.270**	**mg/kg**	**1**	**10/11/18 15:33**
Nickel	**6.18**		**0.00186**	**0.135**	**mg/kg**	**1**	**10/11/18 15:33**
Potassium	**283**		**2.54**	**108**	**mg/kg**	**1**	**10/11/18 15:33**
Selenium	ND		0.0117	1.35	mg/kg	1	10/11/18 15:33
Silver	ND		0.00322	0.540	mg/kg	1	10/11/18 15:33
Sodium	**82.6**		**0.148**	**54.0**	**mg/kg**	**1**	**10/11/18 15:33**
Thallium	ND		0.00748	1.35	mg/kg	1	10/11/18 15:33
Vanadium	**14.7**		**0.00935**	**0.540**	**mg/kg**	**1**	**10/11/18 15:33**
Zinc	**23.2**		**0.00248**	**0.810**	**mg/kg**	**1**	**10/11/18 15:33**

SW 846 8081B - Pesticides

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
4,4'-DDD	ND	U	0.000858	0.00142	mg/kg	1	10/11/18 16:51
4,4'-DDE	ND	U	0.00100	0.00142	mg/kg	1	10/11/18 16:51
4,4'-DDT	ND	U	0.000681	0.00142	mg/kg	1	10/11/18 16:51
Aldrin	ND	U	0.000880	0.00142	mg/kg	1	10/11/18 16:51
alpha-BHC	ND	U	0.000549	0.00142	mg/kg	1	10/11/18 16:51
beta-BHC	ND	U	0.00140	0.00142	mg/kg	1	10/11/18 16:51
Chlordane	**0.0103**		**0.000952**	**0.00142**	**mg/kg**	**1**	**10/11/18 16:51**
delta-BHC	ND	U	0.00110	0.00142	mg/kg	1	10/11/18 16:51
Dieldrin	ND	U	0.000763	0.00142	mg/kg	1	10/11/18 16:51
Endosulfan I	ND	U	0.000981	0.00142	mg/kg	1	10/11/18 16:51
Endosulfan II	ND	U	0.000771	0.00142	mg/kg	1	10/11/18 16:51
Endosulfan sulfate	ND	U	0.000771	0.00142	mg/kg	1	10/11/18 16:51
Endrin	ND	U	0.000727	0.00142	mg/kg	1	10/11/18 16:51
Endrin aldehyde	ND	U	0.000605	0.00142	mg/kg	1	10/11/18 16:51
Endrin ketone	ND	U	0.000865	0.00142	mg/kg	1	10/11/18 16:51
gamma-BHC (Lindane)	ND	U	0.000648	0.00142	mg/kg	1	10/11/18 16:51
Heptachlor	ND	U	0.000829	0.00142	mg/kg	1	10/11/18 16:51
Heptachlor Epoxide	ND	U	0.000887	0.00142	mg/kg	1	10/11/18 16:51
Methoxychlor	ND	U	0.000902	0.00142	mg/kg	1	10/11/18 16:51
Toxaphene	ND	U	0.0220	0.0720	mg/kg	1	10/11/18 16:51

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B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-12 (Soil) Sample Name: **STP-4B** Collected: **10/10/2018 12:00:00AM**

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1-Methylnaphthalene	ND	U	0.0348	0.218	mg/kg	1	10/11/18 15:57
2,3,4,6-Tetrachlorophenol	ND	U	0.0224	0.145	mg/kg	1	10/11/18 15:57
2,4,5-Trichlorophenol	ND	U	0.0197	0.145	mg/kg	1	10/11/18 15:57
2,4,6-Trichlorophenol	ND	U	0.00908	0.145	mg/kg	1	10/11/18 15:57
2,4-Dichlorophenol	ND	U	0.0146	0.145	mg/kg	1	10/11/18 15:57
2,4-Dimethylphenol	ND	U	0.0143	0.145	mg/kg	1	10/11/18 15:57
2,4-Dinitrophenol	ND	U	0.0209	0.727	mg/kg	1	10/11/18 15:57
2,4-Dinitrotoluene	ND	U	0.0155	0.145	mg/kg	1	10/11/18 15:57
2,6-Dinitrotoluene	ND	U	0.0347	0.145	mg/kg	1	10/11/18 15:57
2-Chloronaphthalene	ND	U	0.0167	0.145	mg/kg	1	10/11/18 15:57
2-Chlorophenol	ND	U	0.0192	0.145	mg/kg	1	10/11/18 15:57
2-Methylnaphthalene	ND	U	0.0348	0.218	mg/kg	1	10/11/18 15:57
2-Methylphenol	ND	U	0.0287	0.145	mg/kg	1	10/11/18 15:57
2-Nitroaniline	ND	U	0.0117	0.145	mg/kg	1	10/11/18 15:57
2-Nitrophenol	ND	U	0.0161	0.145	mg/kg	1	10/11/18 15:57
3,3'-Dichlorobenzidine	ND	U	0.0153	0.145	mg/kg	1	10/11/18 15:57
3+4-Methylphenol	ND	U	0.0266	0.145	mg/kg	1	10/11/18 15:57
3-Nitroaniline	ND	U	0.0269	0.145	mg/kg	1	10/11/18 15:57
4,6-Dinitro-2-methylphenol	ND	U	0.0274	0.363	mg/kg	1	10/11/18 15:57
4-Bromophenyl-phenyl ether	ND	U	0.0207	0.145	mg/kg	1	10/11/18 15:57
4-Chloro-3-methylphenol	ND	U	0.0229	0.145	mg/kg	1	10/11/18 15:57
4-Chloroaniline	ND	U	0.00508	0.145	mg/kg	1	10/11/18 15:57
4-Chlorophenyl phenyl ether	ND	U	0.00784	0.145	mg/kg	1	10/11/18 15:57
4-Nitroaniline	ND	U	0.0726	0.145	mg/kg	1	10/11/18 15:57
4-Nitrophenol	ND	U	0.00929	0.145	mg/kg	1	10/11/18 15:57
Acenaphthene	ND	U	0.00828	0.145	mg/kg	1	10/11/18 15:57
Acenaphthylene	ND	U	0.00505	0.145	mg/kg	1	10/11/18 15:57
Acetophenone	ND	U	0.0144	0.145	mg/kg	1	10/11/18 15:57
Anthracene	ND	U	0.0210	0.145	mg/kg	1	10/11/18 15:57
Atrazine	ND	U	0.0136	0.145	mg/kg	1	10/11/18 15:57
Benzaldehyde	ND	U	0.0446	0.145	mg/kg	1	10/11/18 15:57
Benzo(a)anthracene	ND	U	0.0146	0.145	mg/kg	1	10/11/18 15:57
Benzo(a)pyrene	ND	U	0.0253	0.145	mg/kg	1	10/11/18 15:57
Benzo(b)fluoranthene	ND	U	0.0204	0.145	mg/kg	1	10/11/18 15:57
Benzo(g,h,i)perylene	ND	U	0.0118	0.145	mg/kg	1	10/11/18 15:57
Benzo(k)fluoranthene	ND	U	0.0167	0.145	mg/kg	1	10/11/18 15:57
Biphenyl	ND	U	0.0128	0.145	mg/kg	1	10/11/18 15:57
bis(2-chloroethoxy)methane	ND	U	0.0201	0.145	mg/kg	1	10/11/18 15:57
bis(2-chloroethyl)ether	ND	U	0.0159	0.145	mg/kg	1	10/11/18 15:57

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-12 (Soil) Sample Name: **STP-4B** Collected: **10/10/2018 12:00:00AM**

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
bis(2-chloroisopropyl)ether	ND	U	0.0522	0.145	mg/kg	1	10/11/18 15:57
bis(2-ethylhexyl)phthalate	ND	U	0.0290	0.145	mg/kg	1	10/11/18 15:57
Butylbenzylphthalate	ND	U	0.0132	0.145	mg/kg	1	10/11/18 15:57
Caprolactam	ND	U	0.0188	0.145	mg/kg	1	10/11/18 15:57
Carbazole	ND	U	0.0279	0.363	mg/kg	1	10/11/18 15:57
Chrysene	ND	U	0.00995	0.145	mg/kg	1	10/11/18 15:57
Dibenzo(a,h)anthracene	ND	U	0.0144	0.145	mg/kg	1	10/11/18 15:57
Dibenzofuran	ND	U	0.00865	0.145	mg/kg	1	10/11/18 15:57
Diethylphthalate	ND	U	0.0281	0.145	mg/kg	1	10/11/18 15:57
Dimethylphthalate	**0.0632**	**J**	**0.00901**	**0.145**	**mg/kg**	**1**	**10/11/18 15:57**
Di-n-butylphthalate	ND	U	0.0593	0.145	mg/kg	1	10/11/18 15:57
Di-n-octylphthalate	ND	U	0.0298	0.145	mg/kg	1	10/11/18 15:57
Fluoranthene	ND	U	0.0136	0.145	mg/kg	1	10/11/18 15:57
Fluorene	ND	U	0.0121	0.145	mg/kg	1	10/11/18 15:57
Hexachlorobenzene	ND	U	0.0190	0.145	mg/kg	1	10/11/18 15:57
Hexachlorobutadiene	ND	U	0.0697	0.145	mg/kg	1	10/11/18 15:57
Hexachlorocyclopentadiene	ND	U	0.0605	0.363	mg/kg	1	10/11/18 15:57
Hexachloroethane	ND	U	0.0159	0.145	mg/kg	1	10/11/18 15:57
Indeno(1,2,3-cd)pyrene	ND	U	0.0156	0.145	mg/kg	1	10/11/18 15:57
Isophorone	ND	U	0.00951	0.145	mg/kg	1	10/11/18 15:57
Naphthalene	ND	U	0.0108	0.145	mg/kg	1	10/11/18 15:57
Nitrobenzene	ND	U	0.0246	0.145	mg/kg	1	10/11/18 15:57
n-Nitroso-di-n-propylamine	ND	U	0.00778	0.145	mg/kg	1	10/11/18 15:57
n-Nitrosodiphenylamine	ND	U	0.0310	0.145	mg/kg	1	10/11/18 15:57
Phenanthrene	ND	U	0.0191	0.145	mg/kg	1	10/11/18 15:57
Phenol	ND	U	0.0118	0.145	mg/kg	1	10/11/18 15:57
Pyrene	ND	U	0.0107	0.145	mg/kg	1	10/11/18 15:57

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25 - TIC

Tentitively Identified Compound	Est Conc	RT	Qual	Units	Dilution	Analyzed
No TICs Found						

SW 846 8260C - Volatile Organics - GC/MS - VO+15

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1,1,1-Trichloroethane	ND	U	0.000129	0.000887	mg/kg	1	10/10/18 22:30
1,1,2,2-Tetrachloroethane	ND	U	0.000122	0.000887	mg/kg	1	10/10/18 22:30
1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	U	0.000379	0.000887	mg/kg	1	10/10/18 22:30
1,1,2-Trichloroethane	ND	U	0.000149	0.000887	mg/kg	1	10/10/18 22:30

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-12 (Soil) Sample Name: **STP-4B** Collected: **10/10/2018 12:00:00AM**

SW 846 8260C - Volatile Organics - GC/MS - VO+15 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1,1-Dichloroethane	ND	U	0.000129	0.000887	mg/kg	1	10/10/18 22:30
1,1-Dichloroethene	ND	U	0.000164	0.000887	mg/kg	1	10/10/18 22:30
1,2,3-Trichlorobenzene	ND	U	0.000192	0.000887	mg/kg	1	10/10/18 22:30
1,2,4-Trichlorobenzene	ND	U	0.000236	0.000887	mg/kg	1	10/10/18 22:30
1,2,4-Trimethylbenzene	ND	U	0.000122	0.000887	mg/kg	1	10/10/18 22:30
1,2-Dibromo-3-chloropropane	ND	U	0.000216	0.000887	mg/kg	1	10/10/18 22:30
1,2-Dibromoethane	ND	U	0.000112	0.000887	mg/kg	1	10/10/18 22:30
1,2-Dichlorobenzene	ND	U	0.000156	0.000887	mg/kg	1	10/10/18 22:30
1,2-Dichloroethane	ND	U	0.000125	0.000887	mg/kg	1	10/10/18 22:30
1,2-Dichloropropane	ND	U	0.000145	0.000887	mg/kg	1	10/10/18 22:30
1,3-Dichlorobenzene	ND	U	0.0000652	0.000887	mg/kg	1	10/10/18 22:30
1,4-Dichlorobenzene	ND	U	0.000128	0.000887	mg/kg	1	10/10/18 22:30
2-Butanone	ND	U	0.000145	0.00222	mg/kg	1	10/10/18 22:30
2-Hexanone	ND	U	0.0000829	0.000887	mg/kg	1	10/10/18 22:30
4-Methyl-2-pentanone	ND	U	0.000111	0.000887	mg/kg	1	10/10/18 22:30
Acetone	ND	U	0.000269	0.00222	mg/kg	1	10/10/18 22:30
Benzene	ND	U	0.0000807	0.000887	mg/kg	1	10/10/18 22:30
Bromochloromethane	ND	U	0.000164	0.000887	mg/kg	1	10/10/18 22:30
Bromodichloromethane	ND	U	0.000111	0.000887	mg/kg	1	10/10/18 22:30
Bromoform	ND	U	0.000156	0.000887	mg/kg	1	10/10/18 22:30
Bromomethane	ND	U	0.000256	0.000887	mg/kg	1	10/10/18 22:30
Carbon disulfide	ND	U	0.000127	0.000887	mg/kg	1	10/10/18 22:30
Carbon Tetrachloride	ND	U	0.000133	0.000887	mg/kg	1	10/10/18 22:30
Chlorobenzene	ND	U	0.000129	0.000887	mg/kg	1	10/10/18 22:30
Chlorodibromomethane	ND	U	0.000109	0.000887	mg/kg	1	10/10/18 22:30
Chloroethane	ND	U	0.000151	0.000887	mg/kg	1	10/10/18 22:30
Chloroform	ND	U	0.000149	0.000887	mg/kg	1	10/10/18 22:30
Chloromethane	ND	U	0.000341	0.000887	mg/kg	1	10/10/18 22:30
cis-1,2-Dichloroethene	ND	U	0.0000429	0.000887	mg/kg	1	10/10/18 22:30
cis-1,3-Dichloropropene	ND	U	0.000112	0.000887	mg/kg	1	10/10/18 22:30
Cyclohexane	ND	U	0.000196	0.000887	mg/kg	1	10/10/18 22:30
Dichlorodifluoromethane	ND	U	0.000299	0.000887	mg/kg	1	10/10/18 22:30
EthylBenzene	ND	U	0.000120	0.000887	mg/kg	1	10/10/18 22:30
Isopropylbenzene	ND	U	0.000139	0.000887	mg/kg	1	10/10/18 22:30
m+p-Xylenes	ND	U	0.000224	0.00177	mg/kg	1	10/10/18 22:30
Methyl Acetate	ND	U	0.000117	0.000887	mg/kg	1	10/10/18 22:30
Methyl tert-Butyl Ether	ND	U	0.000150	0.000887	mg/kg	1	10/10/18 22:30
Methylcyclohexane	ND	U	0.000143	0.000887	mg/kg	1	10/10/18 22:30
Methylene Chloride	ND	U	0.000266	0.000887	mg/kg	1	10/10/18 22:30

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental **Work Order:** 8100452
Project: Ridgewood **Date to Lab:** 10/10/2018 3:40:00PM

8100452-12 (Soil) Sample Name: STP-4B Collected: 10/10/2018 12:00:00AM

SW 846 8260C - Volatile Organics - GC/MS - VO+15 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
o-Xylene	ND	U	0.000114	0.000887	mg/kg	1	10/10/18 22:30
Styrene	ND	U	0.000127	0.000887	mg/kg	1	10/10/18 22:30
tert-Butyl alcohol	ND	U	0.00186	0.00887	mg/kg	1	10/10/18 22:30
Tetrachloroethene	ND	U	0.0000878	0.000887	mg/kg	1	10/10/18 22:30
Toluene	ND	U	0.0000714	0.000887	mg/kg	1	10/10/18 22:30
Total Xylenes	ND	U	0.000114	0.000887	mg/kg	1	10/10/18 22:30
trans-1,2-Dichloroethene	ND	U	0.000120	0.000887	mg/kg	1	10/10/18 22:30
trans-1,3-Dichloropropene	ND	U	0.000169	0.000887	mg/kg	1	10/10/18 22:30
Trichloroethene	ND	U	0.000130	0.000887	mg/kg	1	10/10/18 22:30
Trichlorofluoromethane	ND	U	0.000102	0.000887	mg/kg	1	10/10/18 22:30
Vinyl chloride	ND	U	0.000168	0.000887	mg/kg	1	10/10/18 22:30

SW 846 8260C - Volatile Organics - GC/MS - VO+15 - TIC

Tentitively Identified Compound	Est Conc	RT	Qual	Units	Dilution	Analyzed
No TICs Found						

Gravimetric - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	**91.7**				**%**	**1**	**10/11/18 10:54**

SW 846 9014 - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Cyanide	ND		0.0818	0.273	mg/kg	1	10/11/18 13:30

8100452-13 (Soil) Sample Name: STP-5 Collected: 10/10/2018 12:00:00AM

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	ND	U	10.8	21.6	mg/kg	1	10/12/18 15:07

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	ND		0.0254	0.0518	mg/kg	1	10/11/18 13:02

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-13 (Soil) Sample Name: **STP-5** Collected: **10/10/2018 12:00:00AM**

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	**6860**		**0.0617**	**2.87**	**mg/kg**	**1**	**10/11/18 15:37**
Antimony	ND		0.00606	1.44	mg/kg	1	10/11/18 15:37
Arsenic	**3.01**		**0.0138**	**1.44**	**mg/kg**	**1**	**10/11/18 15:37**
Barium	**23.0**		**0.00111**	**0.574**	**mg/kg**	**1**	**10/11/18 15:37**
Beryllium	**0.256**		**0.000104**	**0.0287**	**mg/kg**	**1**	**10/11/18 15:37**
Cadmium	ND		0.000978	0.287	mg/kg	1	10/11/18 15:37
Calcium	**310**		**0.326**	**28.7**	**mg/kg**	**1**	**10/11/18 15:37**
Chromium	**8.30**		**0.00103**	**0.287**	**mg/kg**	**1**	**10/11/18 15:37**
Cobalt	**4.74**		**0.00125**	**0.230**	**mg/kg**	**1**	**10/11/18 15:37**
Copper	**9.68**		**0.00124**	**0.287**	**mg/kg**	**1**	**10/11/18 15:37**
Iron	**15100**		**0.130**	**5.74**	**mg/kg**	**1**	**10/11/18 15:37**
Lead	**5.25**		**0.00599**	**1.44**	**mg/kg**	**1**	**10/11/18 15:37**
Magnesium	**1150**		**0.836**	**57.4**	**mg/kg**	**1**	**10/11/18 15:37**
Manganese	**333**		**0.000711**	**0.287**	**mg/kg**	**1**	**10/11/18 15:37**
Nickel	**7.29**		**0.00198**	**0.144**	**mg/kg**	**1**	**10/11/18 15:37**
Potassium	**241**		**2.70**	**115**	**mg/kg**	**1**	**10/11/18 15:37**
Selenium	ND		0.0124	1.44	mg/kg	1	10/11/18 15:37
Silver	ND		0.00342	0.574	mg/kg	1	10/11/18 15:37
Sodium	ND		0.157	57.4	mg/kg	1	10/11/18 15:37
Thallium	ND		0.00796	1.44	mg/kg	1	10/11/18 15:37
Vanadium	**17.3**		**0.00995**	**0.574**	**mg/kg**	**1**	**10/11/18 15:37**
Zinc	**39.9**		**0.00264**	**0.861**	**mg/kg**	**1**	**10/11/18 15:37**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1-Methylnaphthalene	ND	U	0.120	0.216	mg/kg	1	10/11/18 16:27
2-Methylnaphthalene	ND	U	0.0344	0.216	mg/kg	1	10/11/18 16:27
Acenaphthene	ND	U	0.00819	0.144	mg/kg	1	10/11/18 16:27
Acenaphthylene	ND	U	0.00500	0.144	mg/kg	1	10/11/18 16:27
Anthracene	ND	U	0.0208	0.144	mg/kg	1	10/11/18 16:27
Benzo(a)anthracene	ND	U	0.0145	0.144	mg/kg	1	10/11/18 16:27
Benzo(a)pyrene	ND	U	0.0250	0.144	mg/kg	1	10/11/18 16:27
Benzo(b)fluoranthene	ND	U	0.0202	0.144	mg/kg	1	10/11/18 16:27
Benzo(g,h,i)perylene	ND	U	0.0117	0.144	mg/kg	1	10/11/18 16:27
Benzo(k)fluoranthene	ND	U	0.0165	0.144	mg/kg	1	10/11/18 16:27
Chrysene	ND	U	0.00985	0.144	mg/kg	1	10/11/18 16:27
Dibenzo(a,h)anthracene	ND	U	0.0142	0.144	mg/kg	1	10/11/18 16:27
Fluoranthene	ND	U	0.0135	0.144	mg/kg	1	10/11/18 16:27
Fluorene	ND	U	0.0120	0.144	mg/kg	1	10/11/18 16:27

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-13 (Soil) Sample Name: **STP-5** Collected: **10/10/2018 12:00:00AM**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Indeno(1,2,3-cd)pyrene	ND	U	0.0154	0.144	mg/kg	1	10/11/18 16:27
Naphthalene	ND	U	0.0106	0.144	mg/kg	1	10/11/18 16:27
Phenanthrene	ND	U	0.0189	0.144	mg/kg	1	10/11/18 16:27
Pyrene	ND	U	0.0106	0.144	mg/kg	1	10/11/18 16:27

Gravimetric - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	**92.6**				**%**	**1**	**10/11/18 10:54**

8100452-14 (Soil) Sample Name: **STP-7** Collected: **10/10/2018 12:00:00AM**

SW 846 8082A - PCBs

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aroclor-1016	ND	U	0.000633	0.0355	mg/kg	1	10/11/18 15:17
Aroclor-1221	ND	U	0.00109	0.0355	mg/kg	1	10/11/18 15:17
Aroclor-1232	ND	U	0.000836	0.0355	mg/kg	1	10/11/18 15:17
Aroclor-1242	ND	U	0.00121	0.0355	mg/kg	1	10/11/18 15:17
Aroclor-1248	ND	U	0.000833	0.0355	mg/kg	1	10/11/18 15:17
Aroclor-1254	ND	U	0.00127	0.0355	mg/kg	1	10/11/18 15:17
Aroclor-1260	ND	U	0.000936	0.0355	mg/kg	1	10/11/18 15:17
Aroclor-1262	ND	U	0.00137	0.0355	mg/kg	1	10/11/18 15:17
Aroclor-1268	ND	U	0.000718	0.0355	mg/kg	1	10/11/18 15:17
Total PCBs	ND	U	0.000633	0.0355	mg/kg	1	10/11/18 15:17

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	ND	U	10.8	21.5	mg/kg	1	10/12/18 15:42

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	ND		0.0227	0.0463	mg/kg	1	10/11/18 13:05

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	**4650**		**0.0545**	**2.54**	**mg/kg**	**1**	**10/11/18 15:39**
Antimony	ND		0.00536	1.27	mg/kg	1	10/11/18 15:39
Arsenic	**1.49**		**0.0122**	**1.27**	**mg/kg**	**1**	**10/11/18 15:39**
Barium	**18.5**		**0.000979**	**0.508**	**mg/kg**	**1**	**10/11/18 15:39**

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental **Work Order:** 8100452
Project: Ridgewood **Date to Lab:** 10/10/2018 3:40:00PM

8100452-14 (Soil) Sample Name: **STP-7** Collected: **10/10/2018 12:00:00AM**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Beryllium	**0.178**		**0.0000916**	**0.0254**	**mg/kg**	**1**	**10/11/18 15:39**
Cadmium	ND		0.000865	0.254	mg/kg	1	10/11/18 15:39
Calcium	**294**		**0.288**	**25.4**	**mg/kg**	**1**	**10/11/18 15:39**
Chromium	**6.14**		**0.000913**	**0.254**	**mg/kg**	**1**	**10/11/18 15:39**
Cobalt	**2.97**		**0.00111**	**0.203**	**mg/kg**	**1**	**10/11/18 15:39**
Copper	**6.73**		**0.00110**	**0.254**	**mg/kg**	**1**	**10/11/18 15:39**
Iron	**9110**		**0.115**	**5.08**	**mg/kg**	**1**	**10/11/18 15:39**
Lead	**4.31**		**0.00530**	**1.27**	**mg/kg**	**1**	**10/11/18 15:39**
Magnesium	**910**		**0.739**	**50.8**	**mg/kg**	**1**	**10/11/18 15:39**
Manganese	**240**		**0.000628**	**0.254**	**mg/kg**	**1**	**10/11/18 15:39**
Nickel	**5.05**		**0.00175**	**0.127**	**mg/kg**	**1**	**10/11/18 15:39**
Potassium	**210**		**2.39**	**102**	**mg/kg**	**1**	**10/11/18 15:39**
Selenium	ND		0.0110	1.27	mg/kg	1	10/11/18 15:39
Silver	ND		0.00303	0.508	mg/kg	1	10/11/18 15:39
Sodium	**52.0**		**0.139**	**50.8**	**mg/kg**	**1**	**10/11/18 15:39**
Thallium	ND		0.00703	1.27	mg/kg	1	10/11/18 15:39
Vanadium	**11.8**		**0.00879**	**0.508**	**mg/kg**	**1**	**10/11/18 15:39**
Zinc	**24.1**		**0.00233**	**0.761**	**mg/kg**	**1**	**10/11/18 15:39**

SW 846 8081B - Pesticides

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
4,4'-DDD	ND	U	0.000847	0.00140	mg/kg	1	10/11/18 17:14
4,4'-DDE	ND	U	0.000990	0.00140	mg/kg	1	10/11/18 17:14
4,4'-DDT [2C]	**0.00928**		**0.000586**	**0.00140**	**mg/kg**	**1**	**10/11/18 17:14**
Aldrin	ND	U	0.000868	0.00140	mg/kg	1	10/11/18 17:14
alpha-BHC	ND	U	0.000541	0.00140	mg/kg	1	10/11/18 17:14
beta-BHC	ND	U	0.00138	0.00140	mg/kg	1	10/11/18 17:14
Chlordane	**0.0136**		**0.000939**	**0.00140**	**mg/kg**	**1**	**10/11/18 17:14**
delta-BHC	ND	U	0.00108	0.00140	mg/kg	1	10/11/18 17:14
Dieldrin	ND	U	0.000753	0.00140	mg/kg	1	10/11/18 17:14
Endosulfan I	ND	U	0.000968	0.00140	mg/kg	1	10/11/18 17:14
Endosulfan II	ND	U	0.000761	0.00140	mg/kg	1	10/11/18 17:14
Endosulfan sulfate	ND	U	0.000761	0.00140	mg/kg	1	10/11/18 17:14
Endrin	ND	U	0.000718	0.00140	mg/kg	1	10/11/18 17:14
Endrin aldehyde	ND	U	0.000597	0.00140	mg/kg	1	10/11/18 17:14
Endrin ketone	ND	U	0.000853	0.00140	mg/kg	1	10/11/18 17:14
gamma-BHC (Lindane)	ND	U	0.000639	0.00140	mg/kg	1	10/11/18 17:14
Heptachlor	ND	U	0.000818	0.00140	mg/kg	1	10/11/18 17:14
Heptachlor Epoxide	ND	U	0.000875	0.00140	mg/kg	1	10/11/18 17:14

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-14 (Soil) Sample Name: **STP-7** Collected: **10/10/2018 12:00:00AM**

SW 846 8081B - Pesticides (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Methoxychlor	ND	U	0.000890	0.00140	mg/kg	1	10/11/18 17:14
Toxaphene	ND	U	0.0217	0.0710	mg/kg	1	10/11/18 17:14

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1-Methylnaphthalene	ND	U	0.0343	0.215	mg/kg	1	10/11/18 16:57
2,3,4,6-Tetrachlorophenol	ND	U	0.0221	0.143	mg/kg	1	10/11/18 16:57
2,4,5-Trichlorophenol	ND	U	0.0195	0.143	mg/kg	1	10/11/18 16:57
2,4,6-Trichlorophenol	ND	U	0.00896	0.143	mg/kg	1	10/11/18 16:57
2,4-Dichlorophenol	ND	U	0.0144	0.143	mg/kg	1	10/11/18 16:57
2,4-Dimethylphenol	ND	U	0.0141	0.143	mg/kg	1	10/11/18 16:57
2,4-Dinitrophenol	ND	U	0.0207	0.718	mg/kg	1	10/11/18 16:57
2,4-Dinitrotoluene	ND	U	0.0153	0.143	mg/kg	1	10/11/18 16:57
2,6-Dinitrotoluene	ND	U	0.0342	0.143	mg/kg	1	10/11/18 16:57
2-Chloronaphthalene	ND	U	0.0165	0.143	mg/kg	1	10/11/18 16:57
2-Chlorophenol	ND	U	0.0189	0.143	mg/kg	1	10/11/18 16:57
2-Methylnaphthalene	ND	U	0.0343	0.215	mg/kg	1	10/11/18 16:57
2-Methylphenol	ND	U	0.0283	0.143	mg/kg	1	10/11/18 16:57
2-Nitroaniline	ND	U	0.0115	0.143	mg/kg	1	10/11/18 16:57
2-Nitrophenol	ND	U	0.0159	0.143	mg/kg	1	10/11/18 16:57
3,3'-Dichlorobenzidine	ND	U	0.0151	0.143	mg/kg	1	10/11/18 16:57
3+4-Methylphenol	ND	U	0.0263	0.143	mg/kg	1	10/11/18 16:57
3-Nitroaniline	ND	U	0.0266	0.143	mg/kg	1	10/11/18 16:57
4,6-Dinitro-2-methylphenol	ND	U	0.0270	0.358	mg/kg	1	10/11/18 16:57
4-Bromophenyl-phenyl ether	ND	U	0.0204	0.143	mg/kg	1	10/11/18 16:57
4-Chloro-3-methylphenol	ND	U	0.0226	0.143	mg/kg	1	10/11/18 16:57
4-Chloroaniline	ND	U	0.00501	0.143	mg/kg	1	10/11/18 16:57
4-Chlorophenyl phenyl ether	ND	U	0.00774	0.143	mg/kg	1	10/11/18 16:57
4-Nitroaniline	ND	U	0.0717	0.143	mg/kg	1	10/11/18 16:57
4-Nitrophenol	ND	U	0.00917	0.143	mg/kg	1	10/11/18 16:57
Acenaphthene	ND	U	0.00817	0.143	mg/kg	1	10/11/18 16:57
Acenaphthylene	ND	U	0.00498	0.143	mg/kg	1	10/11/18 16:57
Acetophenone	ND	U	0.0142	0.143	mg/kg	1	10/11/18 16:57
Anthracene	ND	U	0.0208	0.143	mg/kg	1	10/11/18 16:57
Atrazine	ND	U	0.0135	0.143	mg/kg	1	10/11/18 16:57
Benzaldehyde	ND	U	0.0440	0.143	mg/kg	1	10/11/18 16:57
Benzo(a)anthracene	ND	U	0.0144	0.143	mg/kg	1	10/11/18 16:57
Benzo(a)pyrene	ND	U	0.0250	0.143	mg/kg	1	10/11/18 16:57
Benzo(b)fluoranthene	ND	U	0.0201	0.143	mg/kg	1	10/11/18 16:57

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-14 (Soil) Sample Name: **STP-7** Collected: **10/10/2018 12:00:00AM**

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Benzo(g,h,i)perylene	ND	U	0.0116	0.143	mg/kg	1	10/11/18 16:57
Benzo(k)fluoranthene	ND	U	0.0165	0.143	mg/kg	1	10/11/18 16:57
Biphenyl	ND	U	0.0126	0.143	mg/kg	1	10/11/18 16:57
bis(2-chloroethoxy)methane	ND	U	0.0198	0.143	mg/kg	1	10/11/18 16:57
bis(2-chloroethyl)ether	ND	U	0.0157	0.143	mg/kg	1	10/11/18 16:57
bis(2-chloroisopropyl)ether	ND	U	0.0515	0.143	mg/kg	1	10/11/18 16:57
bis(2-ethylhexyl)phthalate	ND	U	0.0286	0.143	mg/kg	1	10/11/18 16:57
Butylbenzylphthalate	ND	U	0.0130	0.143	mg/kg	1	10/11/18 16:57
Caprolactam	ND	U	0.0185	0.143	mg/kg	1	10/11/18 16:57
Carbazole	ND	U	0.0275	0.358	mg/kg	1	10/11/18 16:57
Chrysene	ND	U	0.00981	0.143	mg/kg	1	10/11/18 16:57
Dibenzo(a,h)anthracene	ND	U	0.0142	0.143	mg/kg	1	10/11/18 16:57
Dibenzofuran	ND	U	0.00853	0.143	mg/kg	1	10/11/18 16:57
Diethylphthalate	ND	U	0.0278	0.143	mg/kg	1	10/11/18 16:57
Dimethylphthalate	ND	U	0.00889	0.143	mg/kg	1	10/11/18 16:57
Di-n-butylphthalate	ND	U	0.0585	0.143	mg/kg	1	10/11/18 16:57
Di-n-octylphthalate	ND	U	0.0294	0.143	mg/kg	1	10/11/18 16:57
Fluoranthene	ND	U	0.0135	0.143	mg/kg	1	10/11/18 16:57
Fluorene	ND	U	0.0119	0.143	mg/kg	1	10/11/18 16:57
Hexachlorobenzene	ND	U	0.0187	0.143	mg/kg	1	10/11/18 16:57
Hexachlorobutadiene	ND	U	0.0688	0.143	mg/kg	1	10/11/18 16:57
Hexachlorocyclopentadiene	ND	U	0.0597	0.358	mg/kg	1	10/11/18 16:57
Hexachloroethane	ND	U	0.0157	0.143	mg/kg	1	10/11/18 16:57
Indeno(1,2,3-cd)pyrene	ND	U	0.0154	0.143	mg/kg	1	10/11/18 16:57
Isophorone	ND	U	0.00938	0.143	mg/kg	1	10/11/18 16:57
Naphthalene	ND	U	0.0106	0.143	mg/kg	1	10/11/18 16:57
Nitrobenzene	ND	U	0.0243	0.143	mg/kg	1	10/11/18 16:57
n-Nitroso-di-n-propylamine	ND	U	0.00767	0.143	mg/kg	1	10/11/18 16:57
n-Nitrosodiphenylamine	ND	U	0.0306	0.143	mg/kg	1	10/11/18 16:57
Phenanthrene	ND	U	0.0188	0.143	mg/kg	1	10/11/18 16:57
Phenol	ND	U	0.0116	0.143	mg/kg	1	10/11/18 16:57
Pyrene	ND	U	0.0105	0.143	mg/kg	1	10/11/18 16:57

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25 - TIC

Tentitively Identified Compound	Est Conc	RT	Qual	Units	Dilution	Analyzed
No TICs Found						

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

APL

AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

All Results Summary

Client: Peak Environmental
Project: Ridgewood

Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-14 (Soil) Sample Name: **STP-7** Collected: **10/10/2018 12:00:00AM**

SW 846 8260C - Volatile Organics - GC/MS - VO+15

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1,1,1-Trichloroethane	ND	U	0.000133	0.000912	mg/kg	1	10/10/18 22:59
1,1,2,2-Tetrachloroethane	ND	U	0.000126	0.000912	mg/kg	1	10/10/18 22:59
1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	U	0.000390	0.000912	mg/kg	1	10/10/18 22:59
1,1,2-Trichloroethane	ND	U	0.000154	0.000912	mg/kg	1	10/10/18 22:59
1,1-Dichloroethane	ND	U	0.000133	0.000912	mg/kg	1	10/10/18 22:59
1,1-Dichloroethene	ND	U	0.000169	0.000912	mg/kg	1	10/10/18 22:59
1,2,3-Trichlorobenzene	ND	U	0.000197	0.000912	mg/kg	1	10/10/18 22:59
1,2,4-Trichlorobenzene	ND	U	0.000243	0.000912	mg/kg	1	10/10/18 22:59
1,2,4-Trimethylbenzene	ND	U	0.000126	0.000912	mg/kg	1	10/10/18 22:59
1,2-Dibromo-3-chloropropane	ND	U	0.000222	0.000912	mg/kg	1	10/10/18 22:59
1,2-Dibromoethane	ND	U	0.000115	0.000912	mg/kg	1	10/10/18 22:59
1,2-Dichlorobenzene	ND	U	0.000161	0.000912	mg/kg	1	10/10/18 22:59
1,2-Dichloroethane	ND	U	0.000129	0.000912	mg/kg	1	10/10/18 22:59
1,2-Dichloropropane	ND	U	0.000150	0.000912	mg/kg	1	10/10/18 22:59
1,3-Dichlorobenzene	ND	U	0.0000670	0.000912	mg/kg	1	10/10/18 22:59
1,4-Dichlorobenzene	ND	U	0.000131	0.000912	mg/kg	1	10/10/18 22:59
2-Butanone	ND	U	0.000149	0.00228	mg/kg	1	10/10/18 22:59
2-Hexanone	ND	U	0.0000853	0.000912	mg/kg	1	10/10/18 22:59
4-Methyl-2-pentanone	ND	U	0.000114	0.000912	mg/kg	1	10/10/18 22:59
Acetone	ND	U	0.000276	0.00228	mg/kg	1	10/10/18 22:59
Benzene	ND	U	0.0000830	0.000912	mg/kg	1	10/10/18 22:59
Bromochloromethane	ND	U	0.000168	0.000912	mg/kg	1	10/10/18 22:59
Bromodichloromethane	ND	U	0.000114	0.000912	mg/kg	1	10/10/18 22:59
Bromoform	ND	U	0.000160	0.000912	mg/kg	1	10/10/18 22:59
Bromomethane	ND	U	0.000263	0.000912	mg/kg	1	10/10/18 22:59
Carbon disulfide	ND	U	0.000131	0.000912	mg/kg	1	10/10/18 22:59
Carbon Tetrachloride	ND	U	0.000137	0.000912	mg/kg	1	10/10/18 22:59
Chlorobenzene	ND	U	0.000132	0.000912	mg/kg	1	10/10/18 22:59
Chlorodibromomethane	ND	U	0.000112	0.000912	mg/kg	1	10/10/18 22:59
Chloroethane	ND	U	0.000155	0.000912	mg/kg	1	10/10/18 22:59
Chloroform	ND	U	0.000153	0.000912	mg/kg	1	10/10/18 22:59
Chloromethane	ND	U	0.000351	0.000912	mg/kg	1	10/10/18 22:59
cis-1,2-Dichloroethene	ND	U	0.0000441	0.000912	mg/kg	1	10/10/18 22:59
cis-1,3-Dichloropropene	ND	U	0.000115	0.000912	mg/kg	1	10/10/18 22:59
Cyclohexane	ND	U	0.000202	0.000912	mg/kg	1	10/10/18 22:59
Dichlorodifluoromethane	ND	U	0.000308	0.000912	mg/kg	1	10/10/18 22:59
EthylBenzene	ND	U	0.000124	0.000912	mg/kg	1	10/10/18 22:59
Isopropylbenzene	ND	U	0.000143	0.000912	mg/kg	1	10/10/18 22:59

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-14 (Soil) Sample Name: **STP-7** Collected: **10/10/2018 12:00:00AM**

SW 846 8260C - Volatile Organics - GC/MS - VO+15 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
m+p-Xylenes	ND	U	0.000230	0.00182	mg/kg	1	10/10/18 22:59
Methyl Acetate	ND	U	0.000121	0.000912	mg/kg	1	10/10/18 22:59
Methyl tert-Butyl Ether	ND	U	0.000154	0.000912	mg/kg	1	10/10/18 22:59
Methylcyclohexane	ND	U	0.000147	0.000912	mg/kg	1	10/10/18 22:59
Methylene Chloride	ND	U	0.000274	0.000912	mg/kg	1	10/10/18 22:59
o-Xylene	ND	U	0.000117	0.000912	mg/kg	1	10/10/18 22:59
Styrene	ND	U	0.000130	0.000912	mg/kg	1	10/10/18 22:59
tert-Butyl alcohol	ND	U	0.00191	0.00912	mg/kg	1	10/10/18 22:59
Tetrachloroethene	ND	U	0.0000903	0.000912	mg/kg	1	10/10/18 22:59
Toluene	ND	U	0.0000734	0.000912	mg/kg	1	10/10/18 22:59
Total Xylenes	ND	U	0.000117	0.000912	mg/kg	1	10/10/18 22:59
trans-1,2-Dichloroethene	ND	U	0.000124	0.000912	mg/kg	1	10/10/18 22:59
trans-1,3-Dichloropropene	ND	U	0.000174	0.000912	mg/kg	1	10/10/18 22:59
Trichloroethene	ND	U	0.000134	0.000912	mg/kg	1	10/10/18 22:59
Trichlorofluoromethane	ND	U	0.000105	0.000912	mg/kg	1	10/10/18 22:59
Vinyl chloride	ND	U	0.000173	0.000912	mg/kg	1	10/10/18 22:59

SW 846 8260C - Volatile Organics - GC/MS - VO+15 - TIC

Tentitively Identified Compound	Est Conc	RT	Qual	Units	Dilution	Analyzed
No TICs Found						

Gravimetric - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	**92.9**				**%**	**1**	**10/11/18 10:54**

SW 846 9014 - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Cyanide	ND		0.0807	0.269	mg/kg	1	10/11/18 13:30

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

PCBs

Peak Environmental

Work Order: 8100452

Project: Ridgewood

ANALYSIS DATA SHEET

PCBs - SW 846 8082A

Client:	**Peak Environmental**	**Project:**	**Ridgewood**
Client Sample ID:	**Blank**	**Work Order:**	**8100452**
Lab Sample ID:	**B8J1064-BLK1**		

Init/Final Vol:	15 g / 10 mL	Prep Date:	10/10/2018 16:36	File ID:	6B23444.D
		Prep Batch:	B8J1064	Analyzed:	10/12/2018 19:13
		Matrix:	Soil	Sequence:	S8J1201
		Prep Method:	Microwave Extraction		

CAS NO.	COMPOUND	CONC. (mg/kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016	ND	0.000588	0.0330	U
11104-28-2	Aroclor-1221	ND	0.00102	0.0330	U
11141-16-5	Aroclor-1232	ND	0.000777	0.0330	U
53469-21-9	Aroclor-1242	ND	0.00112	0.0330	U
12672-29-6	Aroclor-1248	ND	0.000774	0.0330	U
11097-69-1	Aroclor-1254	ND	0.00118	0.0330	U
11096-82-5	Aroclor-1260	ND	0.000870	0.0330	U
37324-23-5	Aroclor-1262	ND	0.00127	0.0330	U
11100-14-4	Aroclor-1268	ND	0.000667	0.0330	U
1336-36-3	Total PCBs	ND	0.000588	0.0330	U

F-I

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181012\6B23444.D\ECD1A.CH Vial: 24
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181012\6B23444.D\ECD2B.CH
Acq On : 12 Oct 2018 19:13 Operator: RL
Sample : B8J1064-BLK1 Inst : GCECD-6
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 13 11:39 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Initial Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
System Monitoring Compounds						
1) S TCMX	4.25	5.25	741.2E6	252.5E6	61.566m	50.512
Spiked Amount 50.000	Range 40 - 149		Recovery =		123.13%	101.02%
2) S Decachlorobiphen	16.00	20.24	526.2E6	231.2E6	48.066	43.780
Spiked Amount 50.000	Range 52 - 136		Recovery =		96.13%	87.56%
Target Compounds						
Sum Aroclor-1016 (1)			0	0	N.D.	N.D.
Average Aroclor-1016 (1)					0.000	0.000
Sum Aroclor-1221 (1)			0	0	N.D.	N.D.
Average Aroclor-1221 (1)					0.000	0.000
Sum Aroclor-1232 (1)			0	0	N.D.	N.D.
Average Aroclor-1232 (1)					0.000	0.000
Sum Aroclor-1242 (1)			0	0	N.D.	N.D.
Average Aroclor-1242 (1)					0.000	0.000
Sum Aroclor-1248 (1)			0	0	N.D.	N.D.
Average Aroclor-1248 (1)					0.000	0.000
Sum Aroclor-1254 (1)			0	0	N.D.	N.D.
Average Aroclor-1254 (1)					0.000	0.000
Sum Aroclor-1260 (1)			0	0	N.D.	N.D.
Average Aroclor-1260 (1)					0.000	0.000
Sum Aroclor-1262 (1)			0	0	N.D.	N.D.
Average Aroclor-1262 (1)					0.000	0.000
Sum Aroclor-1268 (1)			0	0	N.D.	N.D.
Average Aroclor-1268 (1)					0.000	0.000

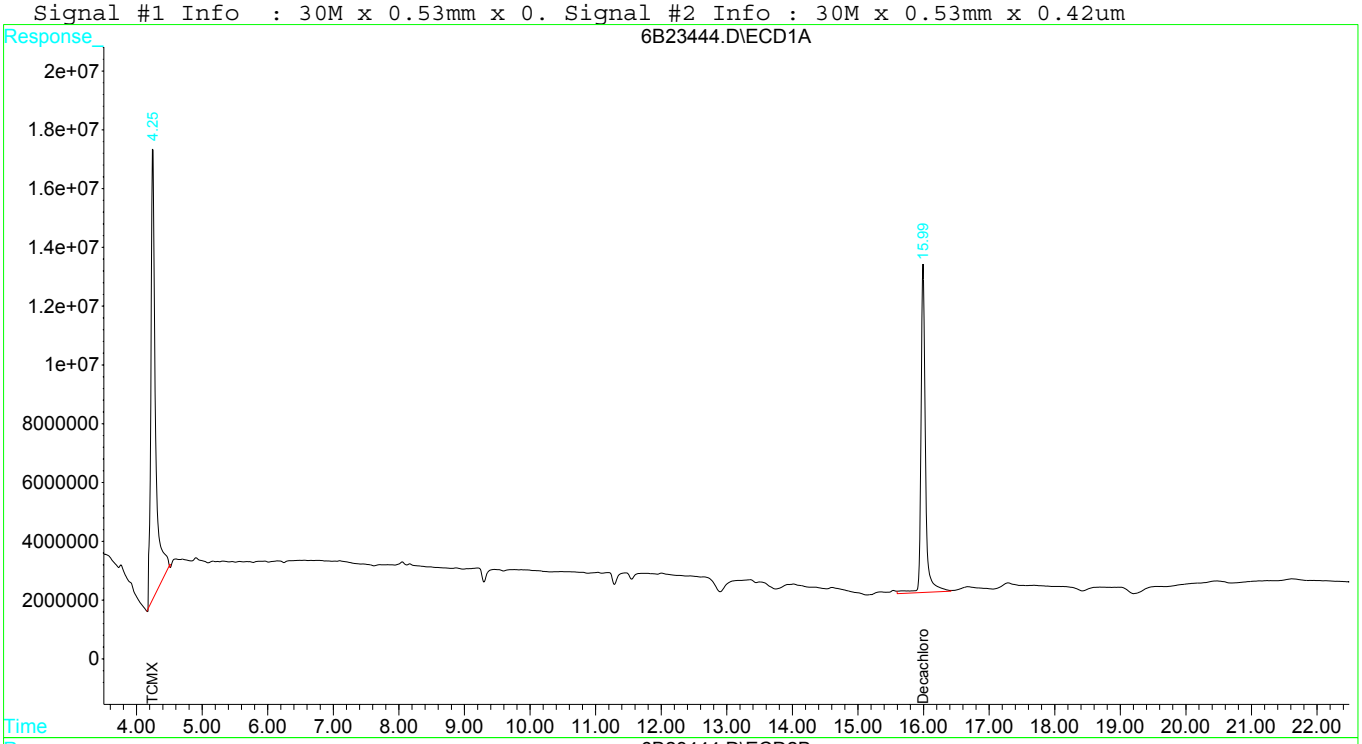
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

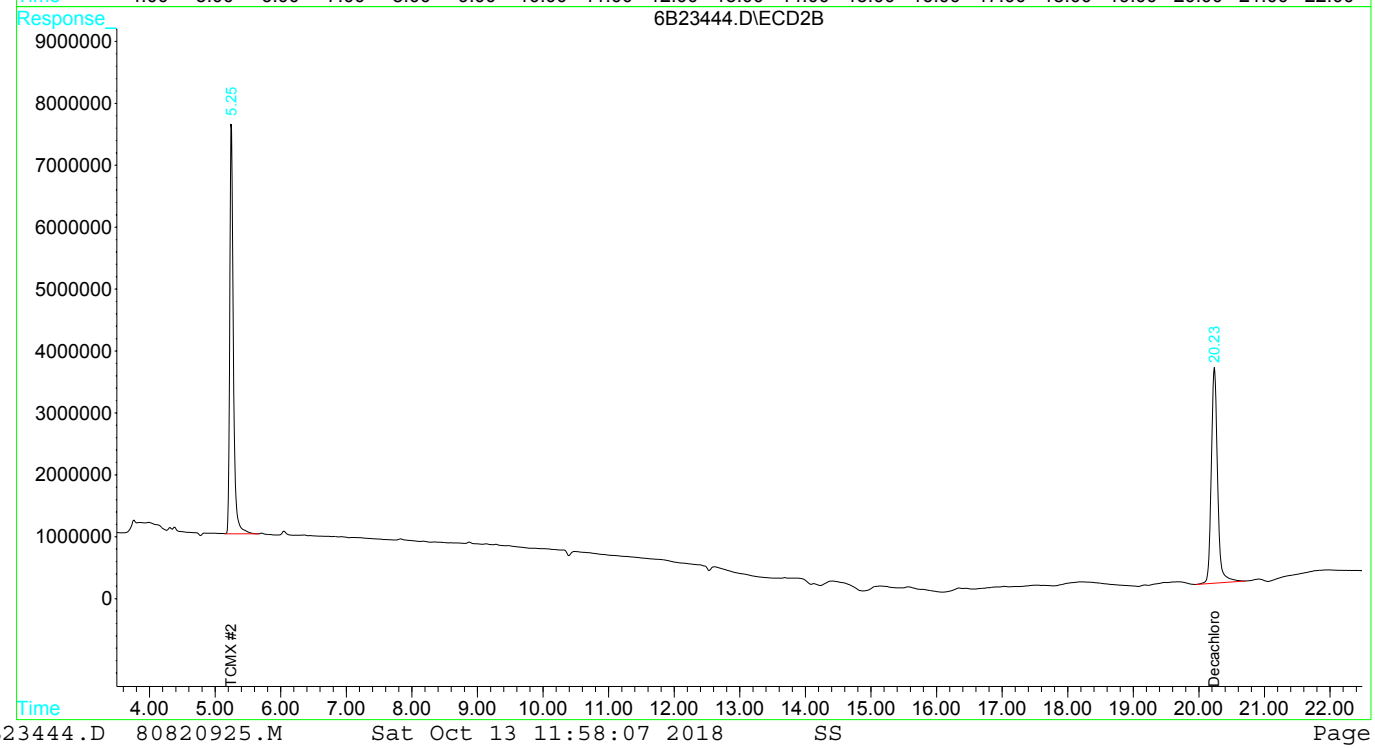
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181012\6B23444.D\ECD1A.CH Vial: 24
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181012\6B23444.D\ECD2B.CH
Acq On : 12 Oct 2018 19:13 Operator: RL
Sample : B8J1064-BLK1 Inst : GCECD-6
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 13 11:39 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





ANALYSIS DATA SHEET

PCBs - SW 846 8082A

Client: **Peak Environmental**
Client Sample ID: **NTP-1A**
Lab Sample ID: **8100452-01**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 16:36	File ID:	6B23378.D
Init/Final Vol:	15 g / 10 mL	Prep Batch:	B8J1064	Analyzed:	10/11/18 14:00
Dilution:	1	Matrix:	Soil	Sequence:	S8J1113
Percent Solids:	89.91	Prep Method:	Microwave Extraction		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016	ND	0.000654	0.0367	U
11104-28-2	Aroclor-1221	ND	0.00113	0.0367	U
11141-16-5	Aroclor-1232	ND	0.000864	0.0367	U
53469-21-9	Aroclor-1242	ND	0.00125	0.0367	U
12672-29-6	Aroclor-1248	ND	0.000861	0.0367	U
11097-69-1	Aroclor-1254	ND	0.00131	0.0367	U
11096-82-5	Aroclor-1260	ND	0.000968	0.0367	U
37324-23-5	Aroclor-1262	ND	0.00142	0.0367	U
11100-14-4	Aroclor-1268	ND	0.000742	0.0367	U
1336-36-3	Total PCBs	ND	0.000654	0.0367	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181011\6B23378.D\ECD1A.CH Vial: 1
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181011\6B23378.D\ECD2B.CH
Acq On : 11 Oct 2018 14:00 Operator: RL
Sample : 8100452-01 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 14:29 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Initial Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
System Monitoring Compounds						
1) S TCMX	4.26	5.25	619.8E6	251.3E6	51.480	50.260
Spiked Amount 50.000	Range 40 - 149		Recovery =		102.96%	100.52%
2) S Decachlorobiphen	15.99	20.23	437.6E6	200.8E6	39.976	38.024
Spiked Amount 50.000	Range 52 - 136		Recovery =		79.95%	76.05%
Target Compounds						
Sum Aroclor-1016 (1)			0	0	N.D.	N.D.
Average Aroclor-1016 (1)					0.000	0.000
Sum Aroclor-1221 (1)			0	0	N.D.	N.D.
Average Aroclor-1221 (1)					0.000	0.000
Sum Aroclor-1232 (1)			0	0	N.D.	N.D.
Average Aroclor-1232 (1)					0.000	0.000
Sum Aroclor-1242 (1)			0	0	N.D.	N.D.
Average Aroclor-1242 (1)					0.000	0.000
Sum Aroclor-1248 (1)			0	0	N.D.	N.D.
Average Aroclor-1248 (1)					0.000	0.000
Sum Aroclor-1254 (1)			0	0	N.D.	N.D.
Average Aroclor-1254 (1)					0.000	0.000
Sum Aroclor-1260 (1)			0	0	N.D.	N.D.
Average Aroclor-1260 (1)					0.000	0.000
Sum Aroclor-1262 (1)			0	0	N.D.	N.D.
Average Aroclor-1262 (1)					0.000	0.000
Sum Aroclor-1268 (1)			0	0	N.D.	N.D.
Average Aroclor-1268 (1)					0.000	0.000

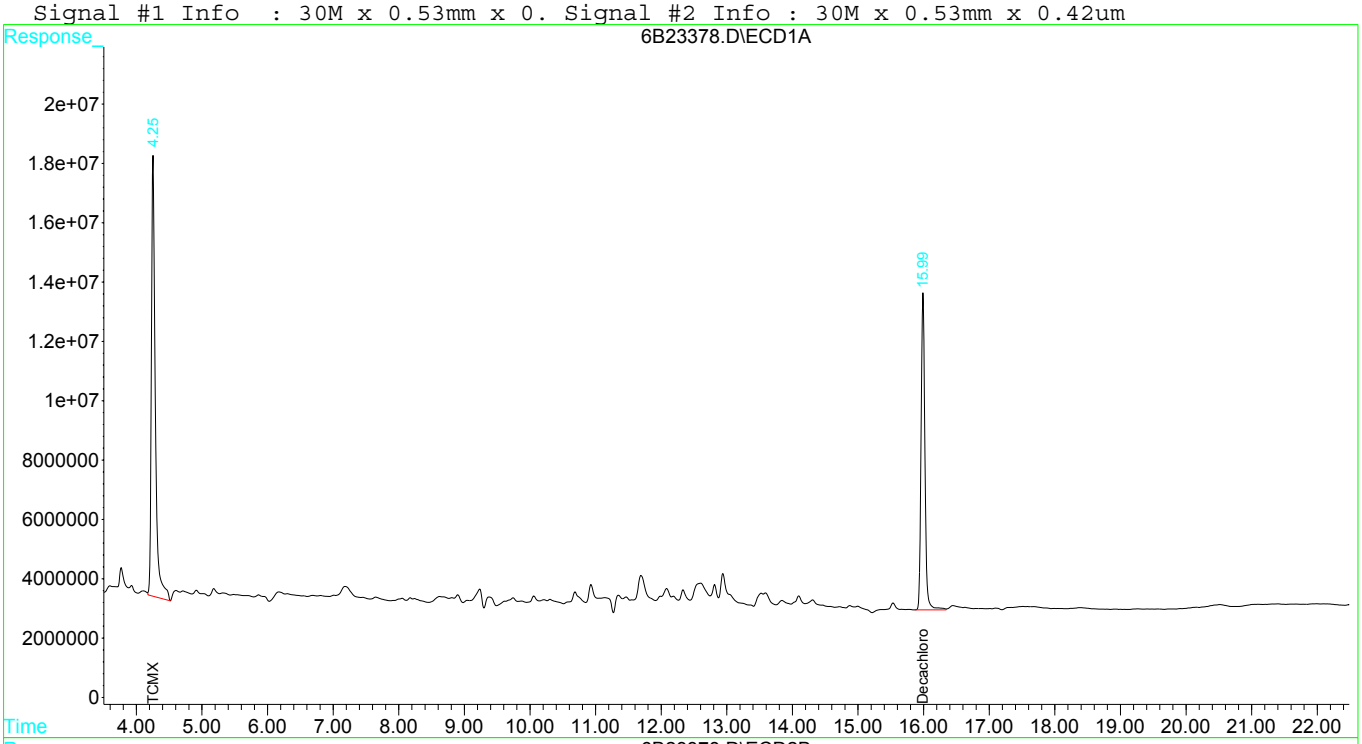
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
6B23378.D 80820925.M Thu Oct 11 15:34:58 2018 SS Page 1

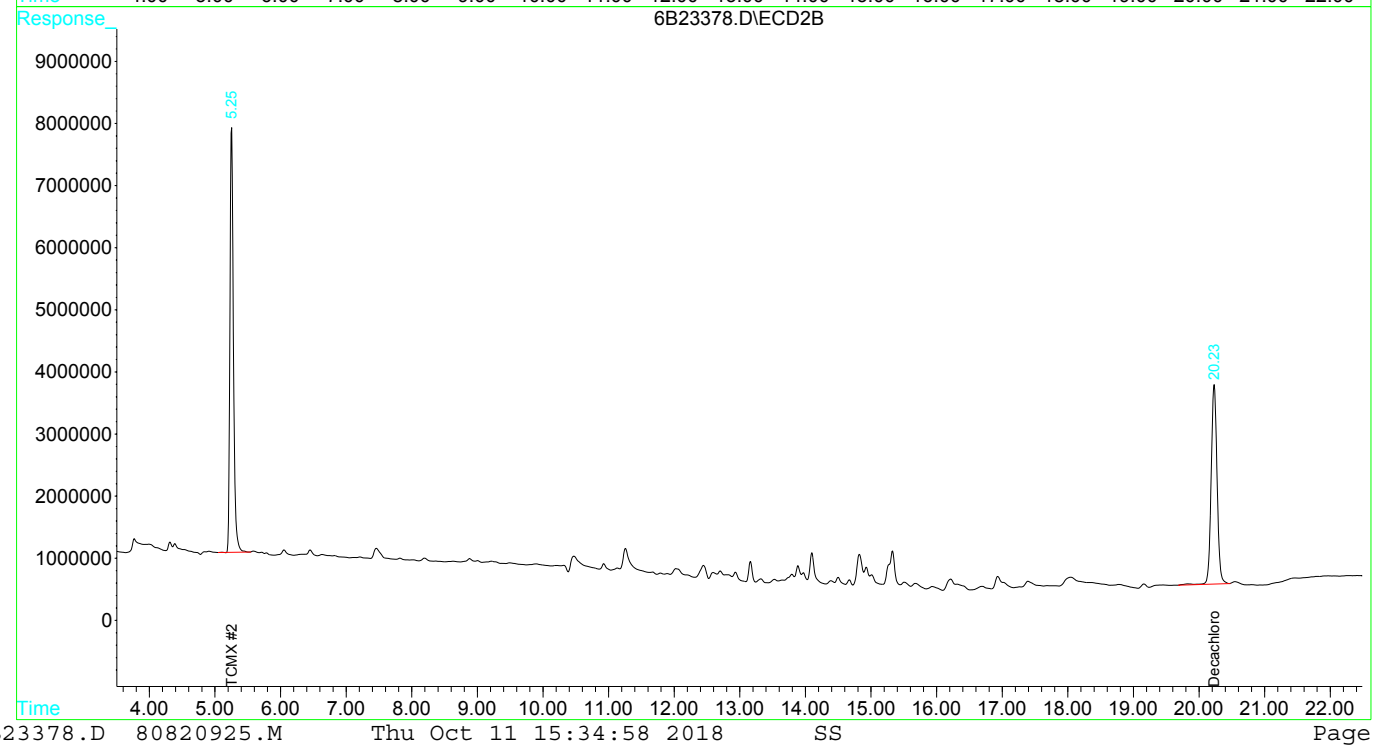
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181011\6B23378.D\ECD1A.CH Vial: 1
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181011\6B23378.D\ECD2B.CH
Acq On : 11 Oct 2018 14:00 Operator: RL
Sample : 8100452-01 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 14:29 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





ANALYSIS DATA SHEET

PCBs - SW 846 8082A

Client: **Peak Environmental**
Client Sample ID: **NTP-6**
Lab Sample ID: **8100452-06**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:50	Prep Date:	10/10/18 16:36	File ID:	6B23379.D
Init/Final Vol:	15 g / 10 mL	Prep Batch:	B8J1064	Analyzed:	10/11/18 14:26
Dilution:	1	Matrix:	Soil	Sequence:	S8J1113
Percent Solids:	87.70	Prep Method:	Microwave Extraction		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016	ND	0.000670	0.0376	U
11104-28-2	Aroclor-1221	ND	0.00116	0.0376	U
11141-16-5	Aroclor-1232	ND	0.000886	0.0376	U
53469-21-9	Aroclor-1242	ND	0.00128	0.0376	U
12672-29-6	Aroclor-1248	ND	0.000883	0.0376	U
11097-69-1	Aroclor-1254	ND	0.00134	0.0376	U
11096-82-5	Aroclor-1260	ND	0.000992	0.0376	U
37324-23-5	Aroclor-1262	ND	0.00145	0.0376	U
11100-14-4	Aroclor-1268	ND	0.000761	0.0376	U
1336-36-3	Total PCBs	ND	0.000670	0.0376	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181011\6B23379.D\ECD1A.CH Vial: 2
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181011\6B23379.D\ECD2B.CH
Acq On : 11 Oct 2018 14:26 Operator: RL
Sample : 8100452-06 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 15:33 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Initial Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
System Monitoring Compounds						
1) S TCMX	4.26	5.26	639.9E6	252.5E6	53.149	50.502
Spiked Amount 50.000	Range 40 - 149		Recovery =		106.30%	101.00%
2) S Decachlorobiphen	15.99	20.24	427.4E6	206.9E6	39.042	39.167
Spiked Amount 50.000	Range 52 - 136		Recovery =		78.08%	78.33%
Target Compounds						
Sum Aroclor-1016 (1)			0	0	N.D.	N.D.
Average Aroclor-1016 (1)					0.000	0.000
Sum Aroclor-1221 (1)			0	0	N.D.	N.D.
Average Aroclor-1221 (1)					0.000	0.000
Sum Aroclor-1232 (1)			0	0	N.D.	N.D.
Average Aroclor-1232 (1)					0.000	0.000
Sum Aroclor-1242 (1)			0	0	N.D.	N.D.
Average Aroclor-1242 (1)					0.000	0.000
Sum Aroclor-1248 (1)			0	0	N.D.	N.D.
Average Aroclor-1248 (1)					0.000	0.000
Sum Aroclor-1254 (1)			0	0	N.D.	N.D.
Average Aroclor-1254 (1)					0.000	0.000
Sum Aroclor-1260 (1)			0	0	N.D.	N.D.
Average Aroclor-1260 (1)					0.000	0.000
Sum Aroclor-1262 (1)			0	0	N.D.	N.D.
Average Aroclor-1262 (1)					0.000	0.000
Sum Aroclor-1268 (1)			0	0	N.D.	N.D.
Average Aroclor-1268 (1)					0.000	0.000

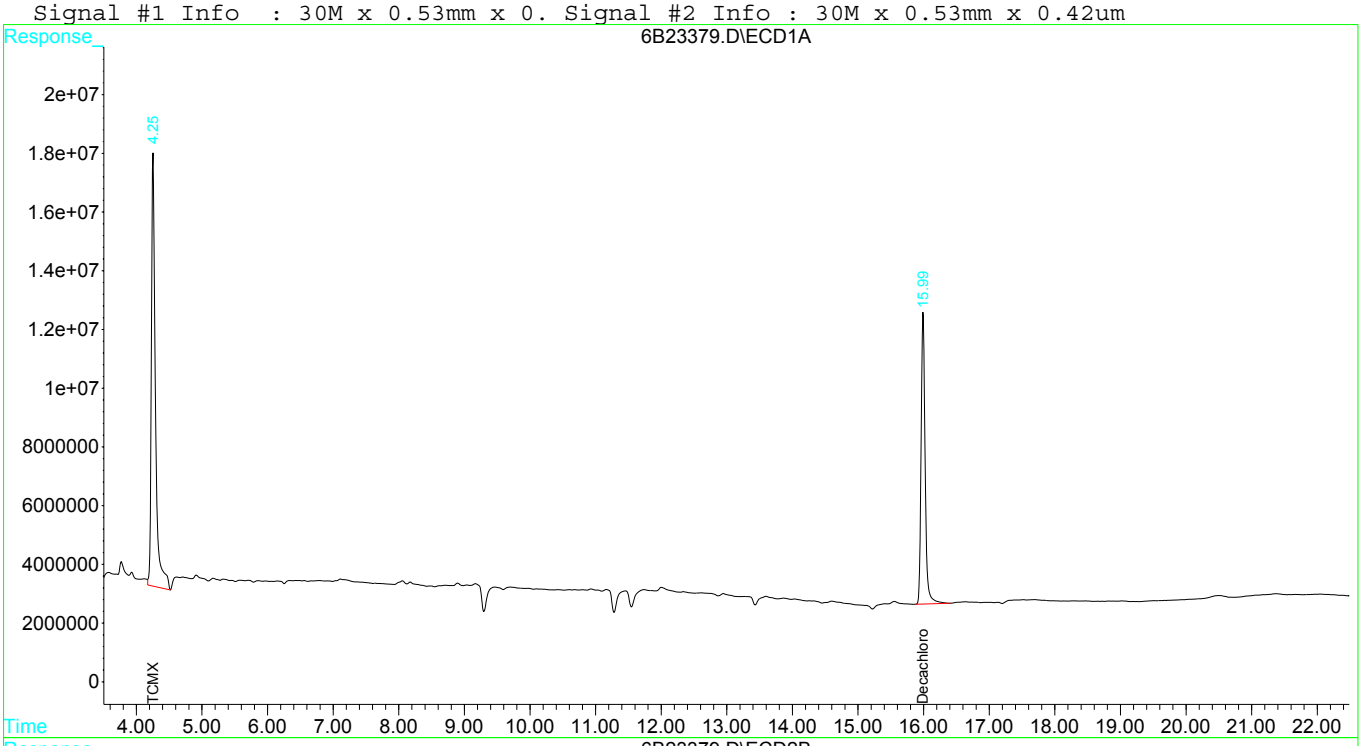
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
6B23379.D 80820925.M Thu Oct 11 15:35:00 2018 SS

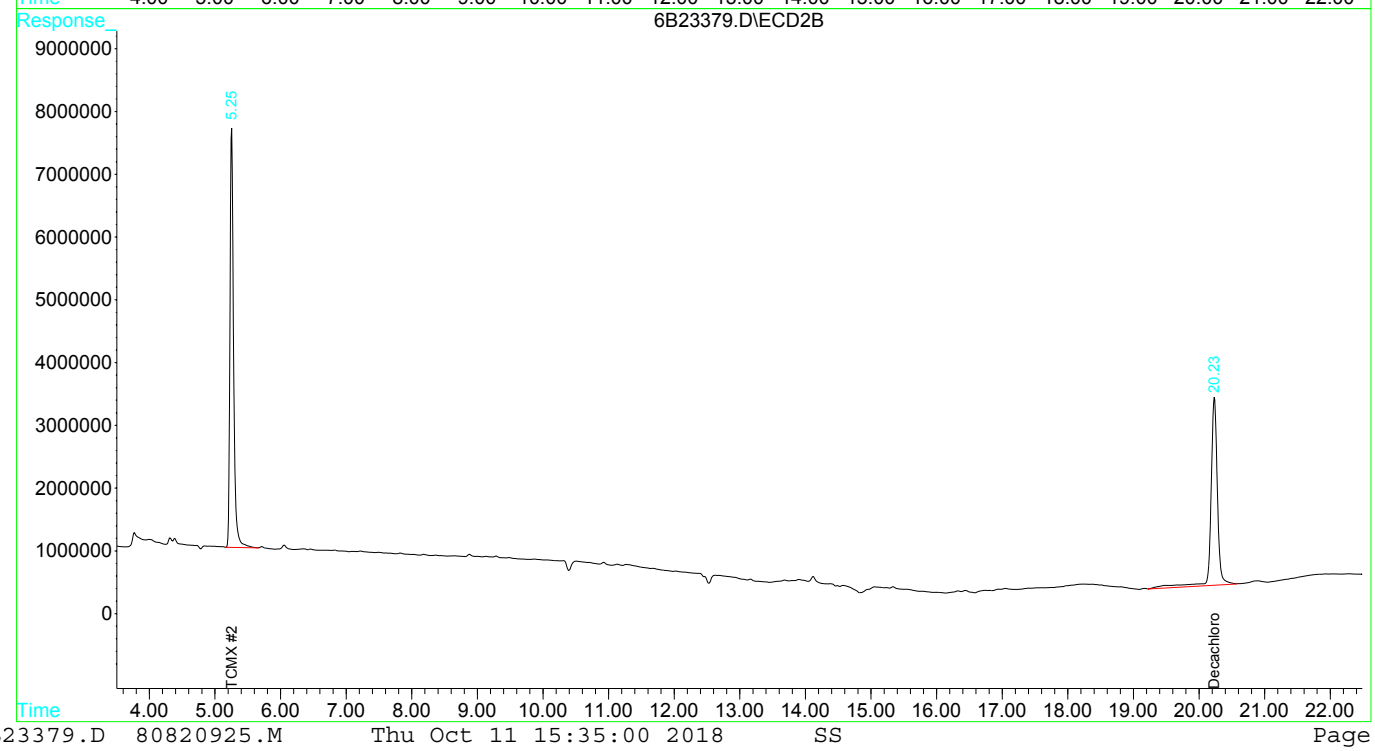
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181011\6B23379.D\ECD1A.CH Vial: 2
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181011\6B23379.D\ECD2B.CH
Acq On : 11 Oct 2018 14:26 Operator: RL
Sample : 8100452-06 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 15:33 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





ANALYSIS DATA SHEET

PCBs - SW 846 8082A

Client: **Peak Environmental**
Client Sample ID: **STP-4B**
Lab Sample ID: **8100452-12**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 16:36	File ID:	6B23380.D
Init/Final Vol:	15 g / 10 mL	Prep Batch:	B8J1064	Analyzed:	10/11/18 14:52
Dilution:	1	Matrix:	Soil	Sequence:	S8J1113
Percent Solids:	91.70	Prep Method:	Microwave Extraction		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016	ND	0.000641	0.0360	U
11104-28-2	Aroclor-1221	ND	0.00111	0.0360	U
11141-16-5	Aroclor-1232	ND	0.000847	0.0360	U
53469-21-9	Aroclor-1242	ND	0.00122	0.0360	U
12672-29-6	Aroclor-1248	ND	0.000844	0.0360	U
11097-69-1	Aroclor-1254	ND	0.00128	0.0360	U
11096-82-5	Aroclor-1260	ND	0.000949	0.0360	U
37324-23-5	Aroclor-1262	ND	0.00139	0.0360	U
11100-14-4	Aroclor-1268	ND	0.000727	0.0360	U
1336-36-3	Total PCBs	ND	0.000641	0.0360	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181011\6B23380.D\ECD1A.CH Vial: 3
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181011\6B23380.D\ECD2B.CH
Acq On : 11 Oct 2018 14:52 Operator: RL
Sample : 8100452-12 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 15:34 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Initial Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
System Monitoring Compounds						
1) S TCMX	4.26	5.26	675.3E6	267.9E6	56.089	53.582
Spiked Amount 50.000	Range 40 - 149		Recovery =		112.18%	107.16%
2) S Decachlorobiphen	16.00	20.24	455.0E6	223.6E6	41.566	42.335
Spiked Amount 50.000	Range 52 - 136		Recovery =		83.13%	84.67%
Target Compounds						
Sum Aroclor-1016 (1)			0	0	N.D.	N.D.
Average Aroclor-1016 (1)					0.000	0.000
Sum Aroclor-1221 (1)			0	0	N.D.	N.D.
Average Aroclor-1221 (1)					0.000	0.000
Sum Aroclor-1232 (1)			0	0	N.D.	N.D.
Average Aroclor-1232 (1)					0.000	0.000
Sum Aroclor-1242 (1)			0	0	N.D.	N.D.
Average Aroclor-1242 (1)					0.000	0.000
Sum Aroclor-1248 (1)			0	0	N.D.	N.D.
Average Aroclor-1248 (1)					0.000	0.000
Sum Aroclor-1254 (1)			0	0	N.D.	N.D.
Average Aroclor-1254 (1)					0.000	0.000
Sum Aroclor-1260 (1)			0	0	N.D.	N.D.
Average Aroclor-1260 (1)					0.000	0.000
Sum Aroclor-1262 (1)			0	0	N.D.	N.D.
Average Aroclor-1262 (1)					0.000	0.000
Sum Aroclor-1268 (1)			0	0	N.D.	N.D.
Average Aroclor-1268 (1)					0.000	0.000

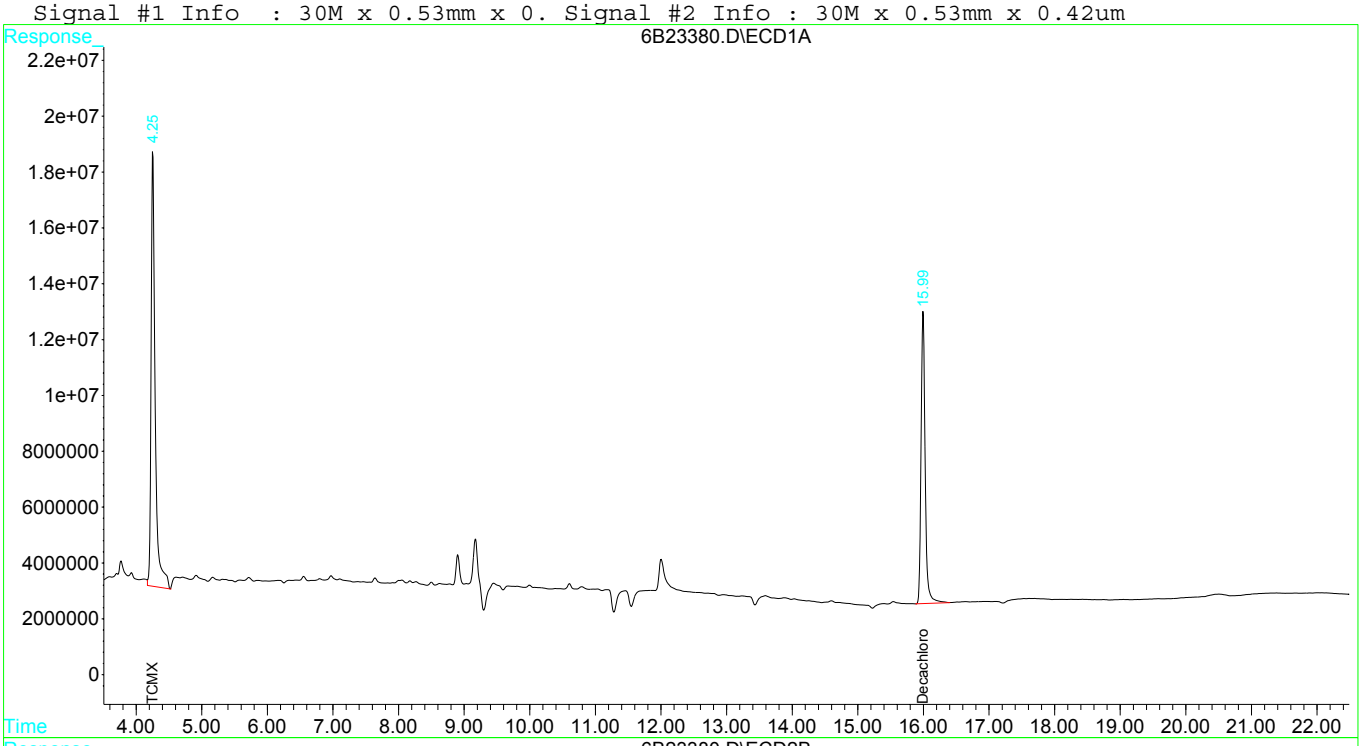
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6B23380.D 80820925.M Thu Oct 11 15:35:02 2018 SS

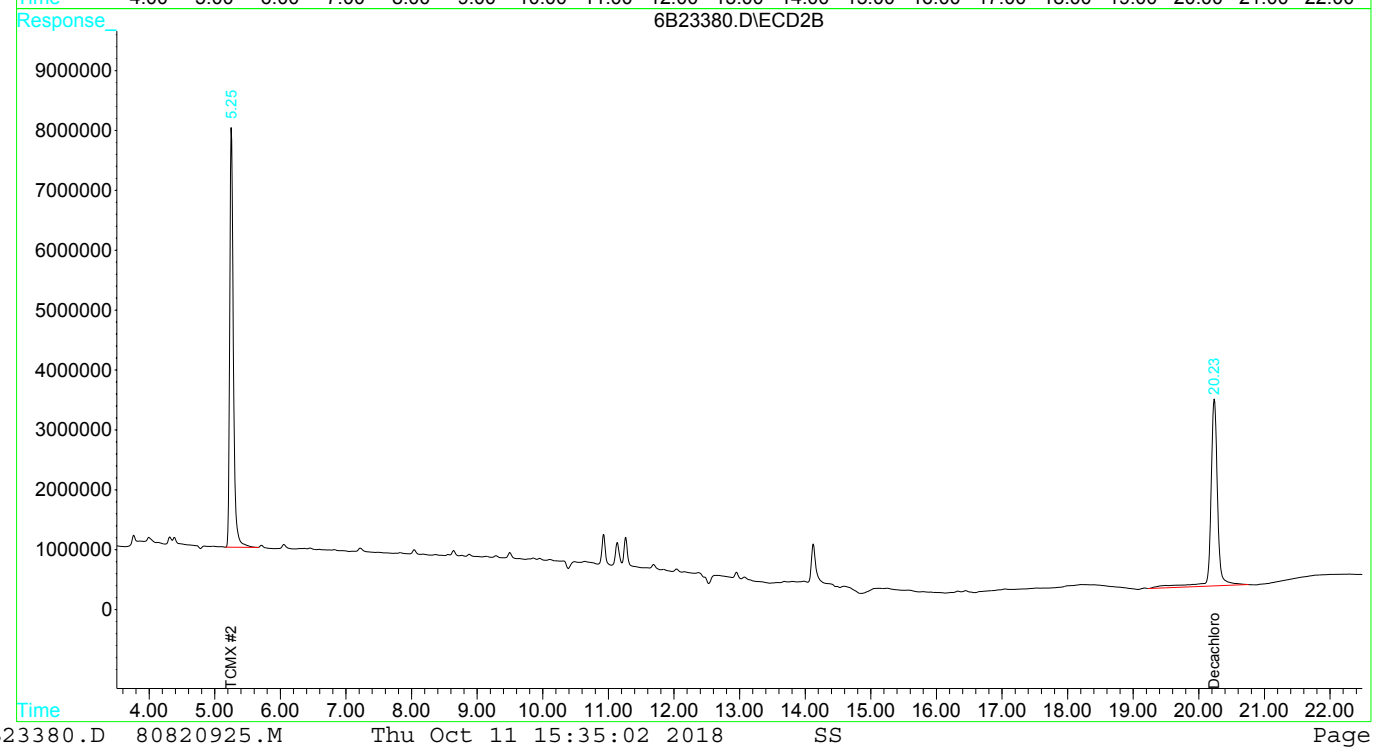
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181011\6B23380.D\ECD1A.CH Vial: 3
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181011\6B23380.D\ECD2B.CH
Acq On : 11 Oct 2018 14:52 Operator: RL
Sample : 8100452-12 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 15:34 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





ANALYSIS DATA SHEET

PCBs - SW 846 8082A

Client: **Peak Environmental**
Client Sample ID: **STP-7**
Lab Sample ID: **8100452-14**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 16:36	File ID:	6B23381.D
Init/Final Vol:	15 g / 10 mL	Prep Batch:	B8J1064	Analyzed:	10/11/18 15:17
Dilution:	1	Matrix:	Soil	Sequence:	S8J1113
Percent Solids:	92.94	Prep Method:	Microwave Extraction		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016	ND	0.000633	0.0355	U
11104-28-2	Aroclor-1221	ND	0.00109	0.0355	U
11141-16-5	Aroclor-1232	ND	0.000836	0.0355	U
53469-21-9	Aroclor-1242	ND	0.00121	0.0355	U
12672-29-6	Aroclor-1248	ND	0.000833	0.0355	U
11097-69-1	Aroclor-1254	ND	0.00127	0.0355	U
11096-82-5	Aroclor-1260	ND	0.000936	0.0355	U
37324-23-5	Aroclor-1262	ND	0.00137	0.0355	U
11100-14-4	Aroclor-1268	ND	0.000718	0.0355	U
1336-36-3	Total PCBs	ND	0.000633	0.0355	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181011\6B23381.D\ECD1A.CH Vial: 4
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181011\6B23381.D\ECD2B.CH
Acq On : 11 Oct 2018 15:17 Operator: RL
Sample : 8100452-14 Inst : GCECD-6
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 15:41 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Initial Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
System Monitoring Compounds						
1) S TCMX	4.26	5.26	695.1E6	276.6E6	57.731	55.327
Spiked Amount 50.000	Range 40 - 149		Recovery =		115.46%	110.65%
2) S Decachlorobiphen	16.00	20.24	478.6E6	231.8E6	43.722	43.890
Spiked Amount 50.000	Range 52 - 136		Recovery =		87.44%	87.78%
Target Compounds						
Sum Aroclor-1016 (1)			0	0	N.D.	N.D.
Average Aroclor-1016 (1)					0.000	0.000
Sum Aroclor-1221 (1)			0	0	N.D.	N.D.
Average Aroclor-1221 (1)					0.000	0.000
Sum Aroclor-1232 (1)			0	0	N.D.	N.D.
Average Aroclor-1232 (1)					0.000	0.000
Sum Aroclor-1242 (1)			0	0	N.D.	N.D.
Average Aroclor-1242 (1)					0.000	0.000
Sum Aroclor-1248 (1)			0	0	N.D.	N.D.
Average Aroclor-1248 (1)					0.000	0.000
Sum Aroclor-1254 (1)			0	0	N.D.	N.D.
Average Aroclor-1254 (1)					0.000	0.000
Sum Aroclor-1260 (1)			0	0	N.D.	N.D.
Average Aroclor-1260 (1)					0.000	0.000
Sum Aroclor-1262 (1)			0	0	N.D.	N.D.
Average Aroclor-1262 (1)					0.000	0.000
Sum Aroclor-1268 (1)			0	0	N.D.	N.D.
Average Aroclor-1268 (1)					0.000	0.000

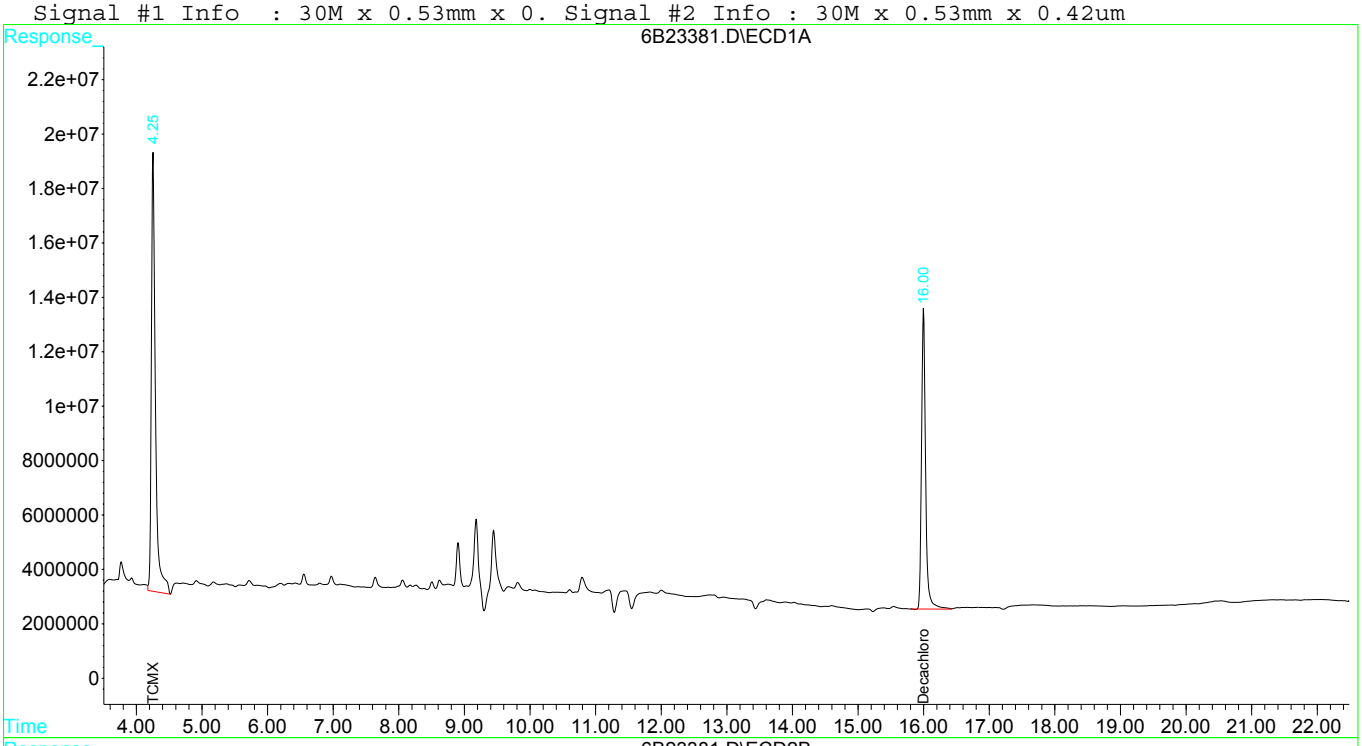
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
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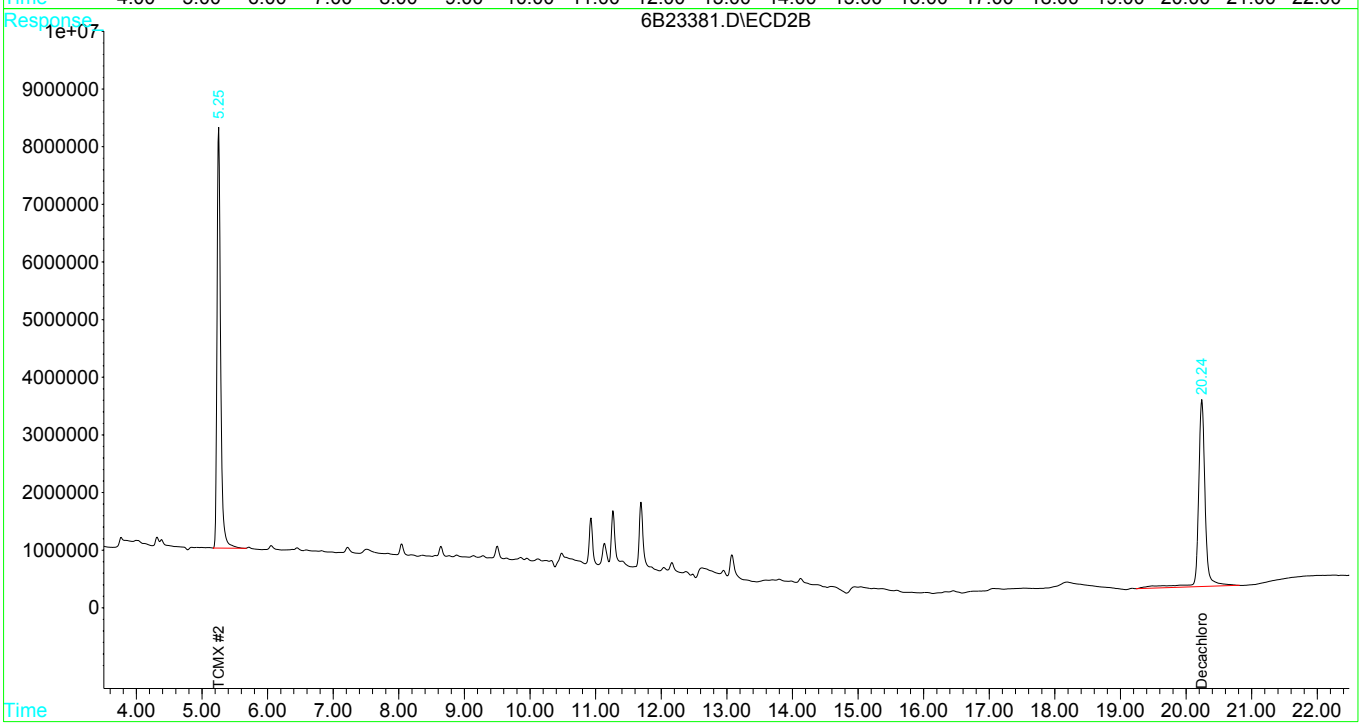
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181011\6B23381.D\ECD1A.CH Vial: 4
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181011\6B23381.D\ECD2B.CH
Acq On : 11 Oct 2018 15:17 Operator: RL
Sample : 8100452-14 Inst : GCECD-6
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 15:41 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





SURROGATE RECOVERIES

Analysis Class: PCBs

Matrix: Soil **Method:** SW 846 8082A

PCBs

Lab Number	File ID	TCMX	DCB	TCMX[2C]	DCB[2C]
8100452-01	6B23378.D	103	80.0	101	76.0
8100452-06	6B23379.D	106	78.1	101	78.3
8100452-12	6B23380.D	112	83.1	107	84.7
8100452-14	6B23381.D	115	87.4	111	87.8
B8J1064-BLK1	6B23444.D	123	96.1	101	87.6
B8J1064-BS1	6B23445.D	120	95.2	105	90.8
B8J1064-MS1	6B23446.D	101	93.6	94.5	93.1
B8J1064-MSD1	6B23447.D	107	91.2	101	94.3

Surrogate Limits		Lo Limit	Hi Limit
TCMX	Tetrachloro-m-xylene	40.2	149
DCB	Decachlorobiphenyl	52.1	136
TCMX[2C]	Tetrachloro-m-xylene [2C]	40.2	149
DCB[2C]	Decachlorobiphenyl [2C]	52.1	136

F-II

* - Outside of QC Limits

Batch B8J1064 **Method: SW 846 8082A** **Prepared: 10/10/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1064-BS1		Aroclor-1016	0.345	mg/kg wet	0.333		104	87.3-144		
B8J1064-BS1		Aroclor-1260	0.322	mg/kg wet	0.333		96.6	68.3-160		

Batch B8J1064 (cont.) **Method: SW 846 8082A** **Prepared: 10/10/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1064-MS1	8100452-01	Aroclor-1016	0.353	mg/kg dry	0.371	ND	95.3	74.4-141		
B8J1064-MS1	8100452-01	Aroclor-1260	0.384	mg/kg dry	0.371	ND	104	64.5-133		

Batch B8J1064 (cont.) **Method: SW 846 8082A** **Prepared: 10/10/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1064-MSD1	8100452-01	Aroclor-1016	0.405	mg/kg dry	0.371	ND	109	74.4-141	13.6	30
B8J1064-MSD1	8100452-01	Aroclor-1260	0.417	mg/kg dry	0.371	ND	112	64.5-133	8.12	30

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

F-III NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

METHOD BLANK SUMMARY

Batch ID: **B8J1064**

Lab Number	Sample Id	Extraction Date	Analysis Date
B8J1064-BLK1	BLK1	10/10/2018	10/12/2018 19:13
B8J1064-BS1	BS1	10/10/2018	10/12/2018 19:39
B8J1064-MS1	MS1	10/10/2018	10/12/2018 20:04
B8J1064-MSD1	MSD1	10/10/2018	10/12/2018 20:30
8100452-01	NTP-1A	10/10/2018	10/11/2018 14:00
8100452-06	NTP-6	10/10/2018	10/11/2018 14:26
8100452-12	STP-4B	10/10/2018	10/11/2018 14:52
8100452-14	STP-7	10/10/2018	10/11/2018 15:17

SURROGATE RT DRIFT REPORT

Analysis Class: PCBs

Sequence : S8J1113

		TCMX			DCB			TCMX[2C]			DCB[2C]		
Lab Number	File ID	RT	Ref RT	Drift	RT	Ref RT	Drift	RT	Ref RT	Drift	RT	Ref RT	Drift
8100452-01	6B23378.D	4.26	4.26	0.00	15.99	16	-0.01	5.25	5.25	0.00	20.23	20.24	-0.01
8100452-06	6B23379.D	4.26	4.26	0.00	15.99	16	-0.01	5.26	5.25	0.01	20.24	20.24	0.00
8100452-12	6B23380.D	4.26	4.26	0.00	16	16	0.00	5.26	5.25	0.01	20.24	20.24	0.00
8100452-14	6B23381.D	4.26	4.26	0.00	16	16	0.00	5.26	5.25	0.01	20.24	20.24	0.00

Sequence : S8J1201

		TCMX			DCB			TCMX[2C]			DCB[2C]		
Lab Number	File ID	RT	Ref RT	Drift	RT	Ref RT	Drift	RT	Ref RT	Drift	RT	Ref RT	Drift
B8J1064-BLK1	6B23444.D	4.25	4.25	0.00	16	15.99	0.01	5.25	5.25	0.00	20.24	20.24	0.00
B8J1064-BS1	6B23445.D	4.25	4.25	0.00	16	15.99	0.01	5.25	5.25	0.00	20.24	20.24	0.00
B8J1064-MS1	6B23446.D	4.24	4.25	-0.01	15.99	15.99	0.00	5.25	5.25	0.00	20.23	20.24	-0.01
B8J1064-MSD1	6B23447.D	4.25	4.25	0.00	15.99	15.99	0.00	5.25	5.25	0.00	20.23	20.24	-0.01

Surrogate		Limit
TCMX	Tetrachloro-m-xylene	0.10
DCB	Decachlorobiphenyl	0.10
TCMX[2C]	Tetrachloro-m-xylene [2C]	0.10
DCB[2C]	Decachlorobiphenyl [2C]	0.10

DISS = Dissolved Analysis

F-V

Response Factor Report GCECD-6

Method : G:\HPCHEM\GCECD6\METHODS\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018

Calibration Files
50 =6B22802.D 250 =6B22801.D 500 =6B22800.D
1000 =6B22799.D 2000 =6B22798.D

		Compound	50	250	500	1000	2000	Avg		%RSD
1)	S	TCMX	1.124	1.199	1.193	1.228	1.275	1.204	E7	4.58
2)	S	Decachlorobiphenyl	0.930	1.183	1.128	1.109	1.123	1.095	E7	8.78
3)	L3	Aroclor-1016 (1)	1.979	2.211	2.129	2.181	2.089	2.118	E5	4.27
4)	L3	Aroclor-1016 (2)	4.448	4.498	4.239	4.324	4.110	4.324	E5	3.63
5)	L3	Aroclor-1016 (3)	3.034	3.281	3.048	3.173	3.022	3.112	E5	3.62
6)	L3	Aroclor-1016 (4)	1.132	1.110	1.030	1.033	1.029	1.067	E6	4.70
7)	L3	Aroclor-1016 (5)	4.759	4.462	4.073	4.023	3.890	4.241	E5	8.47
8)	L4	Aroclor-1221 (1)					1.229	1.229	E5	0.00
9)	L4	Aroclor-1221 (2)					6.008	6.008	E4	0.00
10)	L4	Aroclor-1221 (3)					3.598	3.598	E5	0.00
11)	L5	Aroclor-1232 (1)					1.296	1.296	E5	0.00
12)	L5	Aroclor-1232 (2)					3.529	3.529	E5	0.00
13)	L5	Aroclor-1232 (3)					1.554	1.554	E5	0.00
14)	L5	Aroclor-1232 (4)					1.190	1.190	E5	0.00
15)	L6	Aroclor-1242 (1)					3.538	3.538	E5	0.00
16)	L6	Aroclor-1242 (2)					2.371	2.371	E5	0.00
17)	L6	Aroclor-1242 (3)					8.487	8.487	E5	0.00
18)	L6	Aroclor-1242 (4)					2.887	2.887	E5	0.00
19)	L6	Aroclor-1242 (5)					2.666	2.666	E5	0.00
20)	L7	Aroclor-1248 (1)					1.511	1.511	E5	0.00
21)	L7	Aroclor-1248 (2)					4.275	4.275	E5	0.00
22)	L7	Aroclor-1248 (3)					5.986	5.986	E5	0.00
23)	L7	Aroclor-1248 (4)					4.502	4.502	E5	0.00
24)	L8	Aroclor-1254 (1)					7.957	7.957	E5	0.00
25)	L8	Aroclor-1254 (2)					6.157	6.157	E5	0.00
26)	L8	Aroclor-1254 (3)					6.310	6.310	E5	0.00
27)	L8	Aroclor-1254 (4)					8.613	8.613	E5	0.00
28)	L9	Aroclor-1260 (1)	5.536	6.418	5.741	5.855	5.372	5.784	E5	6.92
29)	L9	Aroclor-1260 (2)	1.027	1.323	1.209	1.245	1.207	1.202	E6	9.05
30)	L9	Aroclor-1260 (3)	0.934	1.060	0.989	1.020	0.998	1.000	E6	4.61
31)	L9	Aroclor-1260 (4)	1.396	1.728	1.665	1.717	1.735	1.648	E6	8.72
32)	L9	Aroclor-1260 (5)	4.232	3.743	3.701	3.780	4.055	3.902	E5	5.92
33)	L1	Aroclor-1262 (1)					6.160	6.160	E5	0.00
34)	L1	Aroclor-1262 (2)					5.399	5.399	E5	0.00
35)	L1	Aroclor-1262 (3)					2.370	2.370	E6	0.00
36)	L2	Aroclor-1268 (1)					6.571	6.571	E5	0.00
37)	L2	Aroclor-1268 (2)					5.099	5.099	E6	0.00
38)	L2	Aroclor-1268 (3)					1.047	1.047	E6	0.00

Signal #2 Calibration Files
50 =6B22802.D 250 =6B22801.D 500 =6B22800.D
1000 =6B22799.D 2000 =6B22798.D

		Compound	50	250	500	1000	2000	Avg		%RSD
1)	S	TCMX	4.211	5.014	5.084	5.206	5.481	4.999	E6	9.51
2)	S	Decachlorobiphenyl	5.488	5.746	4.805	5.093	5.277	5.282	E6	6.83
3)	L3	Aroclor-1016 (1)	9.455	9.385	8.910	8.628	8.478	8.971	E4	4.89
4)	L3	Aroclor-1016 (2)	1.996	1.958	1.792	1.706	1.667	1.824	E5	8.10
5)	L3	Aroclor-1016 (3)	8.050	8.007	7.654	7.437	7.124	7.654	E4	5.10
6)	L3	Aroclor-1016 (4)	4.199	4.250	3.998	3.942	3.977	4.073	E5	3.46
7)	L3	Aroclor-1016 (5)	1.686	1.816	1.745	1.699	1.631	1.716	E5	4.05
8)	L4	Aroclor-1221 (1)					5.255	5.255	E4	0.00
9)	L4	Aroclor-1221 (2)					3.282	3.282	E4	0.00
10)	L4	Aroclor-1221 (3)					1.320	1.320	E5	0.00
11)	L5	Aroclor-1232 (1)					1.053	1.053	E5	0.00
12)	L5	Aroclor-1232 (2)					7.772	7.772	E4	0.00
13)	L5	Aroclor-1232 (3)					1.715	1.715	E5	0.00
14)	L5	Aroclor-1232 (4)					7.694	7.694	E4	0.00
15)	L6	Aroclor-1242 (1)					1.395	1.395	E5	0.00
16)	L6	Aroclor-1242 (2)					3.269	3.269	E5	0.00

(#) = Out of Range

Response Factor Report GCECD-6

Method : G:\HPCHEM\GCECD6\METHODS\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018

Calibration Files
50 =6B22802.D 250 =6B22801.D 500 =6B22800.D
1000 =6B22799.D 2000 =6B22798.D

		Compound	50	250	500	1000	2000	Avg		%RSD
17)	L6	Aroclor-1242 (3)						1.415	E5	0.00
18)	L6	Aroclor-1242 (4)						4.403	E4	0.00
19)	L6	Aroclor-1242 (5)						1.351	E5	0.00
20)	L7	Aroclor-1248 (1)						7.096	E4	0.00
21)	L7	Aroclor-1248 (2)						1.874	E5	0.00
22)	L7	Aroclor-1248 (3)						5.568	E4	0.00
23)	L7	Aroclor-1248 (4)						1.854	E5	0.00
24)	L8	Aroclor-1254 (1)						2.440	E5	0.00
25)	L8	Aroclor-1254 (2)						1.577	E5	0.00
26)	L8	Aroclor-1254 (3)						1.391	E5	0.00
27)	L8	Aroclor-1254 (4)						2.902	E5	0.00
28)	L9	Aroclor-1260 (1)	2.385	2.235	2.018	1.951	1.962	2.110	E5	9.08
29)	L9	Aroclor-1260 (2)	2.687	2.878	2.644	2.552	2.613	2.675	E5	4.63
30)	L9	Aroclor-1260 (3)	2.473	2.492	2.324	2.291	2.374	2.391	E5	3.73
31)	L9	Aroclor-1260 (4)	2.429	2.129	2.080	2.096	2.198	2.187	E5	6.54
32)	L9	Aroclor-1260 (5)	6.170	5.259	5.378	5.260	5.513	5.516	E5	6.90
33)	L1	Aroclor-1262 (1)						1.505	E5	0.00
34)	L1	Aroclor-1262 (2)						2.912	E5	0.00
35)	L1	Aroclor-1262 (3)						7.018	E5	0.00
36)	L2	Aroclor-1268 (1)						2.827	E5	0.00
37)	L2	Aroclor-1268 (2)						2.413	E6	0.00
38)	L2	Aroclor-1268 (3)						4.433	E5	0.00

(#) = Out of Range

Compound List Report GCECD-6

Method : G:\HPCHEM\GCECD6\METHODS\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Initial Calibration
Total Cpnds : 77

PK#	Type	Compound Name	Exp RT	Rel RT	Cal	A/H	ID
1	S	TCMX	4.25	1.000	A	A	B
2	S	Decachlorobiphenyl	16.00	1.000	A	A	B
3	L3	Aroclor-1016 (1)	4.85	1.000	A	A	B
4	L3	Aroclor-1016 (2)	5.47	1.000	A	A	B
5	L3	Aroclor-1016 (3)	5.85	1.000	A	A	B
6	L3	Aroclor-1016 (4)	6.40	1.000	A	A	B
7	L3	Aroclor-1016 (5)	6.65	1.000	A	A	B
8	L4	Aroclor-1221 (1)	4.53	1.000	A	A	B
9	L4	Aroclor-1221 (2)	4.78	1.000	A	A	B
10	L4	Aroclor-1221 (3)	4.85	1.000	A	A	B
11	L5	Aroclor-1232 (1)	5.85	1.000	A	A	B
12	L5	Aroclor-1232 (2)	6.40	1.000	A	A	B
13	L5	Aroclor-1232 (3)	7.04	1.000	A	A	B
14	L5	Aroclor-1232 (4)	7.45	1.000	A	A	B
15	L6	Aroclor-1242 (1)	5.47	1.000	A	A	B
16	L6	Aroclor-1242 (2)	5.85	1.000	A	A	B
17	L6	Aroclor-1242 (3)	6.39	1.000	A	A	B
18	L6	Aroclor-1242 (4)	7.45	1.000	A	A	B
19	L6	Aroclor-1242 (5)	7.64	1.000	A	A	B
20	L7	Aroclor-1248 (1)	5.46	1.000	A	A	B
21	L7	Aroclor-1248 (2)	6.39	1.000	A	A	B
22	L7	Aroclor-1248 (3)	7.04	1.000	A	A	B
23	L7	Aroclor-1248 (4)	7.45	1.000	A	A	B
24	L8	Aroclor-1254 (1)	9.68	1.000	A	A	B
25	L8	Aroclor-1254 (2)	10.34	1.000	A	A	B
26	L8	Aroclor-1254 (3)	10.68	1.000	A	A	B
27	L8	Aroclor-1254 (4)	11.32	1.000	A	A	B
28	L9	Aroclor-1260 (1)	10.05	1.000	A	A	B
29	L9	Aroclor-1260 (2)	10.68	1.000	A	A	B
30	L9	Aroclor-1260 (3)	11.33	1.000	A	A	B
31	L9	Aroclor-1260 (4)	12.82	1.000	A	A	B
32	L9	Aroclor-1260 (5)	14.89	1.000	A	A	B
33	L1	Aroclor-1262 (1)	11.65	1.000	A	A	B
34	L1	Aroclor-1262 (2)	12.20	1.000	A	A	B
35	L1	Aroclor-1262 (3)	12.82	1.000	A	A	B
36	L2	Aroclor-1268 (1)	14.88	1.000	A	A	B
37	L2	Aroclor-1268 (2)	15.54	1.000	A	A	B
38	L2	Aroclor-1268 (3)	16.00	1.000	A	A	B
39		Signal #2	34.78	1.000	A	A	B
40	S	TCMX #2	5.25	1.000	A	A	B
41	S	Decachlorobiphenyl #2	20.24	1.000	A	A	B
42	L3	Aroclor-1016 (1) #2	6.26	1.000	A	A	B
43	L3	Aroclor-1016 (2) #2	7.13	1.000	A	A	B
44	L3	Aroclor-1016 (3) #2	7.68	1.000	A	A	B
45	L3	Aroclor-1016 (4) #2	8.19	1.000	A	A	B
46	L3	Aroclor-1016 (5) #2	8.48	1.000	A	A	B
47	L4	Aroclor-1221 (1) #2	5.83	1.000	A	A	B
48	L4	Aroclor-1221 (2) #2	6.13	1.000	A	A	B
49	L4	Aroclor-1221 (3) #2	6.27	1.000	A	A	B
50	L5	Aroclor-1232 (1) #2	6.27	1.000	A	A	B
51	L5	Aroclor-1232 (2) #2	7.13	1.000	A	A	B
52	L5	Aroclor-1232 (3) #2	8.19	1.000	A	A	B
53	L5	Aroclor-1232 (4) #2	8.49	1.000	A	A	B
54	L6	Aroclor-1242 (1) #2	7.13	1.000	A	A	B
55	L6	Aroclor-1242 (2) #2	8.18	1.000	A	A	B
56	L6	Aroclor-1242 (3) #2	8.48	1.000	A	A	B
57	L6	Aroclor-1242 (4) #2	9.63	1.000	A	A	B
58	L6	Aroclor-1242 (5) #2	9.82	1.000	A	A	B
59	L7	Aroclor-1248 (1) #2	7.13	1.000	A	A	B
60	L7	Aroclor-1248 (2) #2	8.18	1.000	A	A	B
61	L7	Aroclor-1248 (3) #2	8.73	1.000	A	A	B
62	L7	Aroclor-1248 (4) #2	9.53	1.000	A	A	B
63	L8	Aroclor-1254 (1) #2	10.48	1.000	A	A	B
64	L8	Aroclor-1254 (2) #2	11.07	1.000	A	A	B
65	L8	Aroclor-1254 (3) #2	11.74	1.000	A	A	B
66	L8	Aroclor-1254 (4) #2	12.02	1.000	A	A	B

67	L9	Aroclor-1260 (1) #2	12.45	1.000	A	A	B
68	L9	Aroclor-1260 (2) #2	12.94	1.000	A	A	B
69	L9	Aroclor-1260 (3) #2	13.33	1.000	A	A	B
70	L9	Aroclor-1260 (4) #2	14.68	1.000	A	A	B
71	L9	Aroclor-1260 (5) #2	15.28	1.000	A	A	B
72	L1	Aroclor-1262 (1) #2	14.11	1.000	A	A	B
73	L1	Aroclor-1262 (2) #2	14.68	1.000	A	A	B
74	L1	Aroclor-1262 (3) #2	15.28	1.000	A	A	B
75	L2	Aroclor-1268 (1) #2	17.98	1.000	A	A	B
76	L2	Aroclor-1268 (2) #2	19.17	1.000	A	A	B
77	L2	Aroclor-1268 (3) #2	20.24	1.000	A	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

80820925.M Tue Oct 02 12:32:28 2018 SS

CALIBRATION VERIFICATION SUMMARY

Client: **Peak Environmental**
Work Order: **8100452**

Lab Sample ID (500):	S8J1113-CCV1(1)	Init. Calib. Date(s):	09/25/2018
File ID:	6B23377.D	Date Analyzed:	10/11/2018 13:34
PCBs	Column 1	Matrix:	Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Average-Aroclor-1016	-----	-----	-----	489212	492245	0.60
Aroclor-1016 (1)	04.86	04.76	04.96	211764	242144	14.30
Aroclor-1016 (2)	05.47	05.37	05.57	432364	350618	18.90
Aroclor-1016 (3)	05.86	05.76	05.96	311160	362270	16.40
Aroclor-1016 (4)	06.42	06.32	06.52	1066628	1057362	0.90
Aroclor-1016 (5)	06.67	06.57	06.77	424144	448831	5.80
Average-Aroclor-1260	-----	-----	-----	963897	982236	1.90
Aroclor-1260 (1)	10.06	09.96	10.16	578436	484968	16.20
Aroclor-1260 (2)	10.70	10.60	10.80	1202407	1318524	9.70
Aroclor-1260 (3)	11.34	11.24	11.44	1000381	1006615	0.60
Aroclor-1260 (4)	12.83	12.73	12.93	1648039	1697299	3.00
Aroclor-1260 (5)	14.89	14.79	14.99	390220	403773	3.50
Tetrachloro-m-xylene	04.26	04.16	04.36	12039880	11968110	0.60
Decachlorobiphenyl	16.00	15.90	16.10	10947110	9284400	15.20
					Average %D:	8.76

* - Outside of QC limits

F-VII

CALIBRATION VERIFICATION SUMMARY

Client: **Peak Environmental**
Work Order: **8100452**

Lab Sample ID (500):	S8J1113-CCV1(2)	Init. Calib. Date(s):	09/25/2018
File ID:	6B23377.D	Date Analyzed:	10/11/2018 13:34
PCBs	Column 2	Matrix:	Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Average-Aroclor-1016 [2C]	-----	-----	-----	185625	204123	10.00
Aroclor-1016 (1) [2C]	06.27	06.17	06.37	89712	97027	8.20
Aroclor-1016 (2) [2C]	07.14	07.04	07.24	182386	195712	7.30
Aroclor-1016 (3) [2C]	07.69	07.59	07.79	77154	93895	21.70
Aroclor-1016 (4) [2C]	08.20	08.10	08.30	407320	425268	4.40
Aroclor-1016 (5) [2C]	08.50	08.40	08.60	171552	208715	21.70
Average-Aroclor-1260 [2C]	-----	-----	-----	297563	314212	5.60
Aroclor-1260 (1) [2C]	12.45	12.35	12.55	211007	227921	8.00
Aroclor-1260 (2) [2C]	12.95	12.85	13.05	267464	295603	10.50
Aroclor-1260 (3) [2C]	13.33	13.23	13.43	239078	257236	7.60
Aroclor-1260 (4) [2C]	14.68	14.58	14.78	218661	226848	3.70
Aroclor-1260 (5) [2C]	15.28	15.18	15.38	551606	563451	2.10
Tetrachloro-m-xylene [2C]	05.25	05.15	05.35	4999281	5174800	3.50
Decachlorobiphenyl [2C]	20.24	20.14	20.34	5281753	4225960	20.00
					Average %D:	9.89

* - Outside of QC limits

F-VII

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181011\6B23377.D\ECD1A.CH Vial: 96
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181011\6B23377.D\ECD2B.CH
Acq On : 11 Oct 2018 13:34 Operator: RL
Sample : SEQ-CCV Inst : GCECD-6
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 14:28 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Initial Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
System Monitoring Compounds						
1) S TCMX	4.26	5.25	598.4E6	258.7E6	49.702	51.755
Spiked Amount 50.000	Range 40 - 149		Recovery =		99.40%	103.51%
2) S Decachlorobiphen	16.00	20.24	464.2E6	211.3E6	42.406	40.005m
Spiked Amount 50.000	Range 52 - 136		Recovery =		84.81%	80.01%
Target Compounds						
3) L3 Aroclor-1016 (1)	4.86	6.27	121.1E6	48513559	571.731m	540.769
4) L3 Aroclor-1016 (2)	5.47	7.14	175.3E6	97855933	405.466m	536.531 #
5) L3 Aroclor-1016 (3)	5.86	7.69	181.1E6	46947332	582.127m	613.340
6) L3 Aroclor-1016 (4)	6.42	8.20	528.7E6	212.6E6	495.656m	522.032
7) L3 Aroclor-1016 (5)	6.67	8.50	224.4E6	104.4E6	529.101m	608.315
Sum Aroclor-1016 (1)			1230.6E6	510.3E6	2584.082	2820.986
Average Aroclor-1016 (1)					516.816	564.197
Sum Aroclor-1221 (1)			0	0	N.D.	N.D.
Average Aroclor-1221 (1)					0.000	0.000
Sum Aroclor-1232 (1)			0	0	N.D.	N.D.
Average Aroclor-1232 (1)					0.000	0.000
Sum Aroclor-1242 (1)			0	0	N.D.	N.D.
Average Aroclor-1242 (1)					0.000	0.000
Sum Aroclor-1248 (1)			0	0	N.D.	N.D.
Average Aroclor-1248 (1)					0.000	0.000
Sum Aroclor-1254 (1)			0	0	N.D.	N.D.
Average Aroclor-1254 (1)					0.000	0.000
28) L9 Aroclor-1260 (1)	10.06	12.45	242.5E6	114.0E6	419.207m	540.080 #
29) L9 Aroclor-1260 (2)	10.70	12.95	659.3E6	147.8E6	548.285m	552.603
30) L9 Aroclor-1260 (3)	11.34	13.33	503.3E6	128.6E6	503.116m	537.976
31) L9 Aroclor-1260 (4)	12.83	14.68	848.6E6	113.4E6	514.945m	518.722
32) L9 Aroclor-1260 (5)	14.89	15.28	201.9E6	281.7E6	517.366	510.737
Sum Aroclor-1260 (1)			2455.6E6	785.5E6	2502.919	2660.119
Average Aroclor-1260 (1)					500.584	532.024
Sum Aroclor-1262 (1)			0	0	N.D.	N.D.
Average Aroclor-1262 (1)					0.000	0.000
Sum Aroclor-1268 (1)			0	0	N.D.	N.D.
Average Aroclor-1268 (1)					0.000	0.000

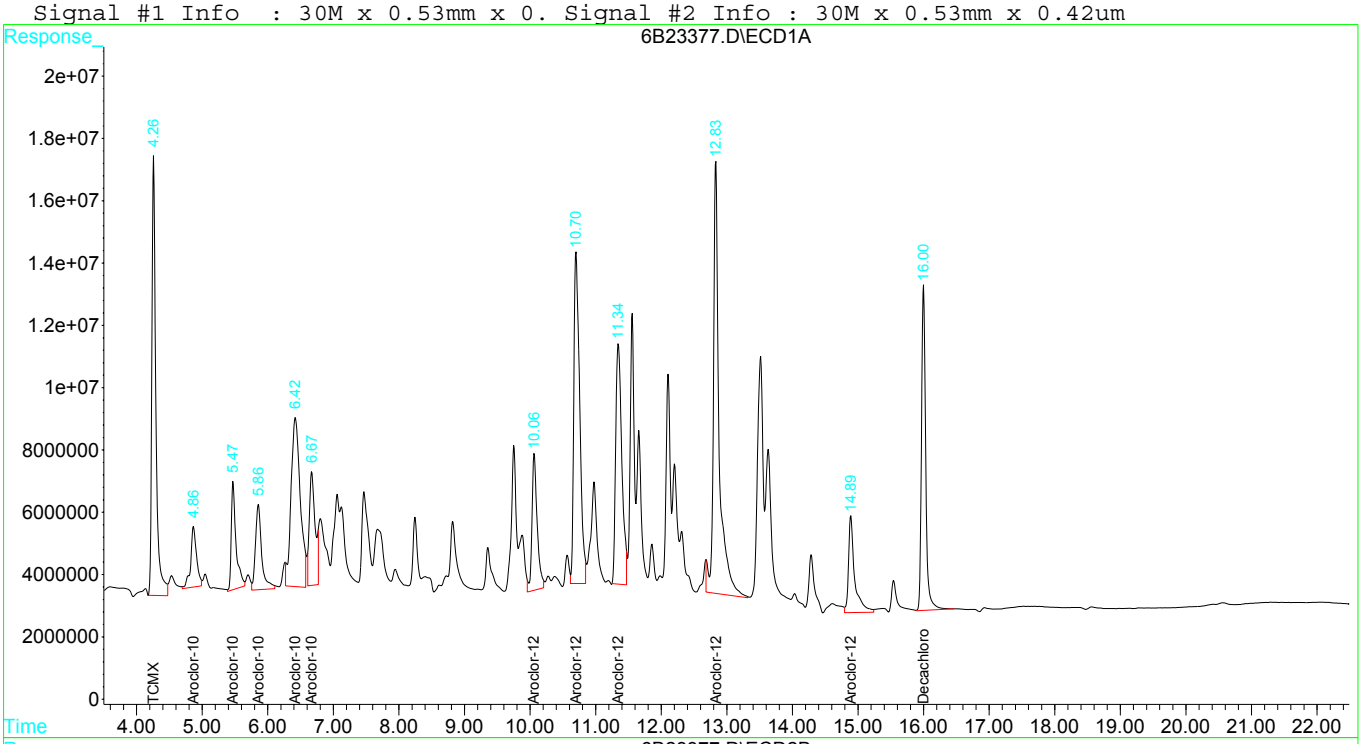
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6B23377.D 80820925.M Thu Oct 11 15:41:58 2018 SS

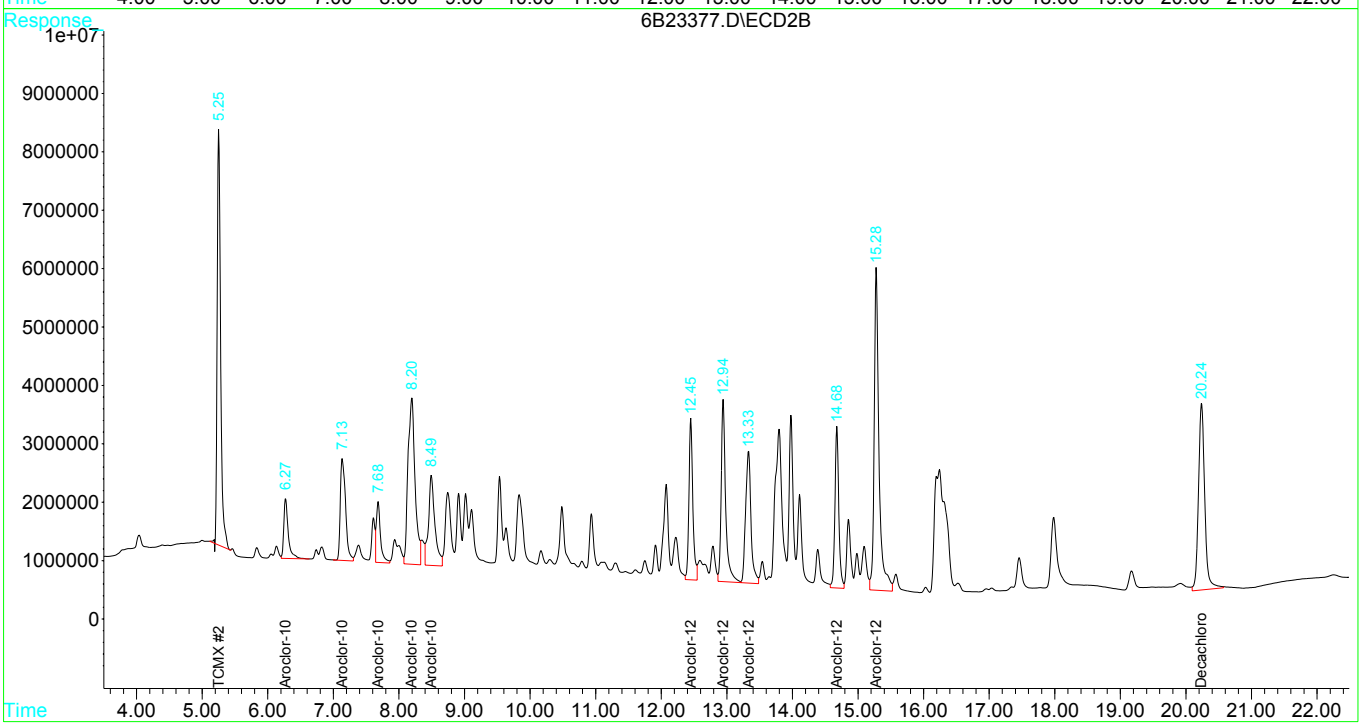
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181011\6B23377.D\ECD1A.CH Vial: 96
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181011\6B23377.D\ECD2B.CH
Acq On : 11 Oct 2018 13:34 Operator: RL
Sample : SEQ-CCV Inst : GCECD-6
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 14:28 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





CALIBRATION VERIFICATION SUMMARY

Client: **Peak Environmental**
Work Order: **8100452**

Lab Sample ID (X500):	S8J1113-CCV2(1)	Init. Calib. Date(s):	09/25/2018
File ID:	6B23397.D	Date Analyzed:	10/11/2018 22:07
PCBs	Column 1	Matrix:	Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Average-Aroclor-1016	-----	-----	-----	489212	525758	7.50
Aroclor-1016 (1)	04.87	04.77	04.97	211764	264302	24.80
Aroclor-1016 (2)	05.47	05.37	05.57	432364	354249	18.10
Aroclor-1016 (3)	05.86	05.76	05.96	311160	413866	33.00
Aroclor-1016 (4)	06.43	06.33	06.53	1066628	1107490	3.80
Aroclor-1016 (5)	06.67	06.57	06.77	424144	488881	15.30
Average-Aroclor-1260	-----	-----	-----	963897	1019026	5.70
Aroclor-1260 (1)	10.06	09.96	10.16	578436	582350	0.70
Aroclor-1260 (2)	10.70	10.60	10.80	1202407	1381838	14.90
Aroclor-1260 (3)	11.35	11.25	11.45	1000381	1067650	6.70
Aroclor-1260 (4)	12.84	12.74	12.94	1648039	1668999	1.30
Aroclor-1260 (5)	14.90	14.80	15.00	390220	394291	1.00
Tetrachloro-m-xylene	04.26	04.16	04.36	12039880	11906430	1.10
Decachlorobiphenyl	16.00	15.90	16.10	10947110	10036770	8.30
					Average %D:	10.75

* - Outside of QC limits

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CALIBRATION VERIFICATION SUMMARY

Client: **Peak Environmental**
Work Order: **8100452**

Lab Sample ID (X500):	S8J1113-CCV2(2)	Init. Calib. Date(s):	09/25/2018
File ID:	6B23397.D	Date Analyzed:	10/11/2018 22:07
PCBs	Column 2	Matrix:	Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Average-Aroclor-1016 [2C]	-----	-----	-----	185625	202212	8.90
Aroclor-1016 (1) [2C]	06.28	06.18	06.38	89712	103543	15.40
Aroclor-1016 (2) [2C]	07.14	07.04	07.24	182386	201714	10.60
Aroclor-1016 (3) [2C]	07.68	07.58	07.78	77154	84942	10.10
Aroclor-1016 (4) [2C]	08.20	08.10	08.30	407320	435194	6.80
Aroclor-1016 (5) [2C]	08.50	08.40	08.60	171552	185668	8.20
Average-Aroclor-1260 [2C]	-----	-----	-----	297563	331038	11.20
Aroclor-1260 (1) [2C]	12.46	12.36	12.56	211007	246616	16.90
Aroclor-1260 (2) [2C]	12.95	12.85	13.05	267464	324460	21.30
Aroclor-1260 (3) [2C]	13.34	13.24	13.44	239078	278363	16.40
Aroclor-1260 (4) [2C]	14.68	14.58	14.78	218661	230825	5.60
Aroclor-1260 (5) [2C]	15.29	15.19	15.39	551606	574924	4.20
Tetrachloro-m-xylene [2C]	05.26	05.16	05.36	4999281	5696838	14.00
Decachlorobiphenyl [2C]	20.25	20.15	20.35	5281753	4377342	17.10
					Average %D:	12.22

* - Outside of QC limits

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Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181011\6B23397.D\ECD1A.CH Vial: 96
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181011\6B23397.D\ECD2B.CH
Acq On : 11 Oct 2018 22:07 Operator: RL
Sample : SEQ-CCV Inst : GCECD-6
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 12 7:56 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Initial Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
System Monitoring Compounds						
1) S TCMX	4.26	5.26	595.3E6	284.8E6	49.446	56.977
Spiked Amount 50.000	Range 40 - 149		Recovery =		98.89%	113.95%
2) S Decachlorobiphen	16.00	20.25	501.8E6	218.9E6	45.842	41.438
Spiked Amount 50.000	Range 52 - 136		Recovery =		91.68%	82.88%
Target Compounds						
3) L3 Aroclor-1016 (1)	4.87	6.28	132.2E6	51771629	624.048	577.086
4) L3 Aroclor-1016 (2)	5.47	7.14	177.1E6	100.9E6	409.666	552.984 #
5) L3 Aroclor-1016 (3)	5.86	7.68	206.9E6	42470920	665.037	554.858m
6) L3 Aroclor-1016 (4)	6.43f	8.20	553.7E6	217.6E6	519.155	534.216m
7) L3 Aroclor-1016 (5)	6.67	8.50	244.4E6	92833897	576.315	541.141m
Sum Aroclor-1016 (1)			1314.4E6	505.5E6	2794.220	2760.286
Average Aroclor-1016 (1)					558.844	552.057
Sum Aroclor-1221 (1)			0	0	N.D.	N.D.
Average Aroclor-1221 (1)					0.000	0.000
Sum Aroclor-1232 (1)			0	0	N.D.	N.D.
Average Aroclor-1232 (1)					0.000	0.000
Sum Aroclor-1242 (1)			0	0	N.D.	N.D.
Average Aroclor-1242 (1)					0.000	0.000
Sum Aroclor-1248 (1)			0	0	N.D.	N.D.
Average Aroclor-1248 (1)					0.000	0.000
Sum Aroclor-1254 (1)			0	0	N.D.	N.D.
Average Aroclor-1254 (1)					0.000	0.000
28) L9 Aroclor-1260 (1)	10.06	12.46	291.2E6	123.3E6	503.384m	584.379
29) L9 Aroclor-1260 (2)	10.70	12.95	690.9E6	162.2E6	574.614m	606.549
30) L9 Aroclor-1260 (3)	11.35	13.34	533.8E6	139.2E6	533.622m	582.158
31) L9 Aroclor-1260 (4)	12.84	14.68	834.5E6	115.4E6	506.359m	527.817
32) L9 Aroclor-1260 (5)	14.90	15.29	197.1E6	287.5E6	505.217	521.137
Sum Aroclor-1260 (1)			2547.6E6	827.6E6	2623.195	2822.040
Average Aroclor-1260 (1)					524.639	564.408
Sum Aroclor-1262 (1)			0	0	N.D.	N.D.
Average Aroclor-1262 (1)					0.000	0.000
Sum Aroclor-1268 (1)			0	0	N.D.	N.D.
Average Aroclor-1268 (1)					0.000	0.000

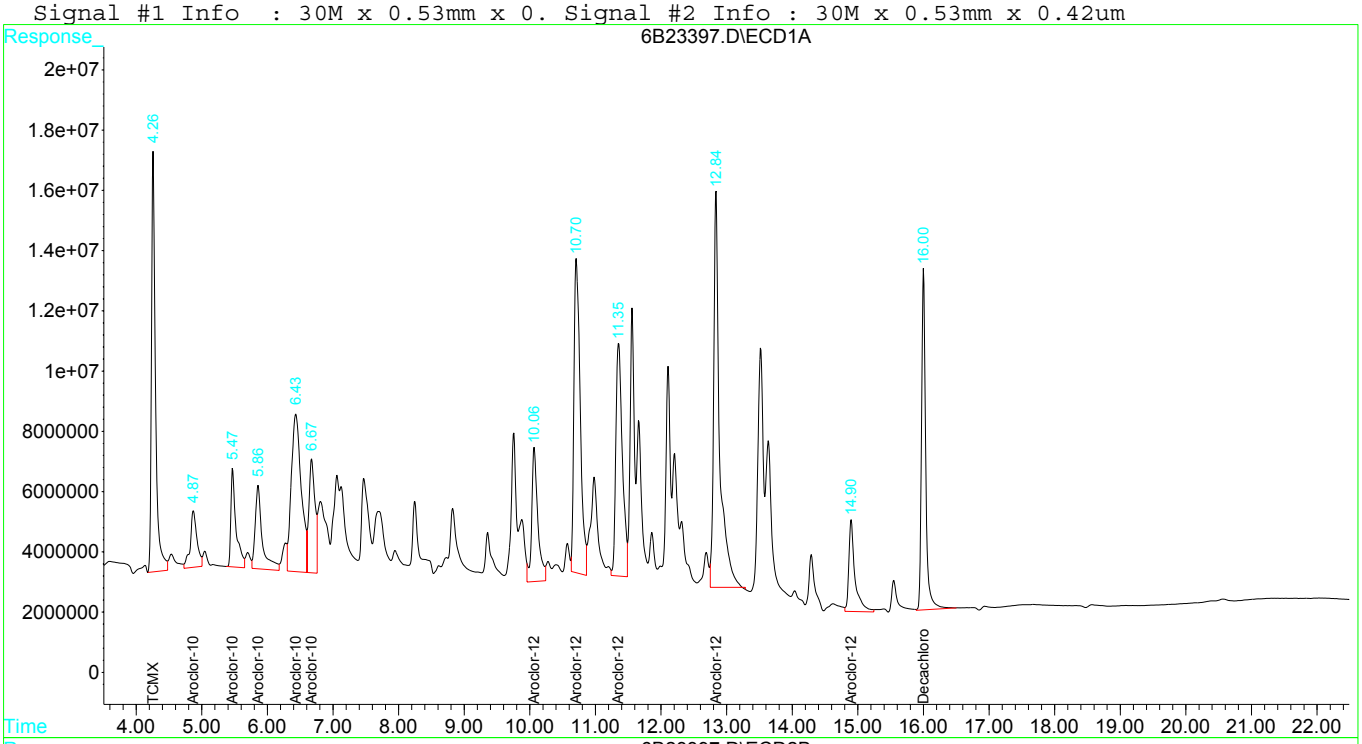
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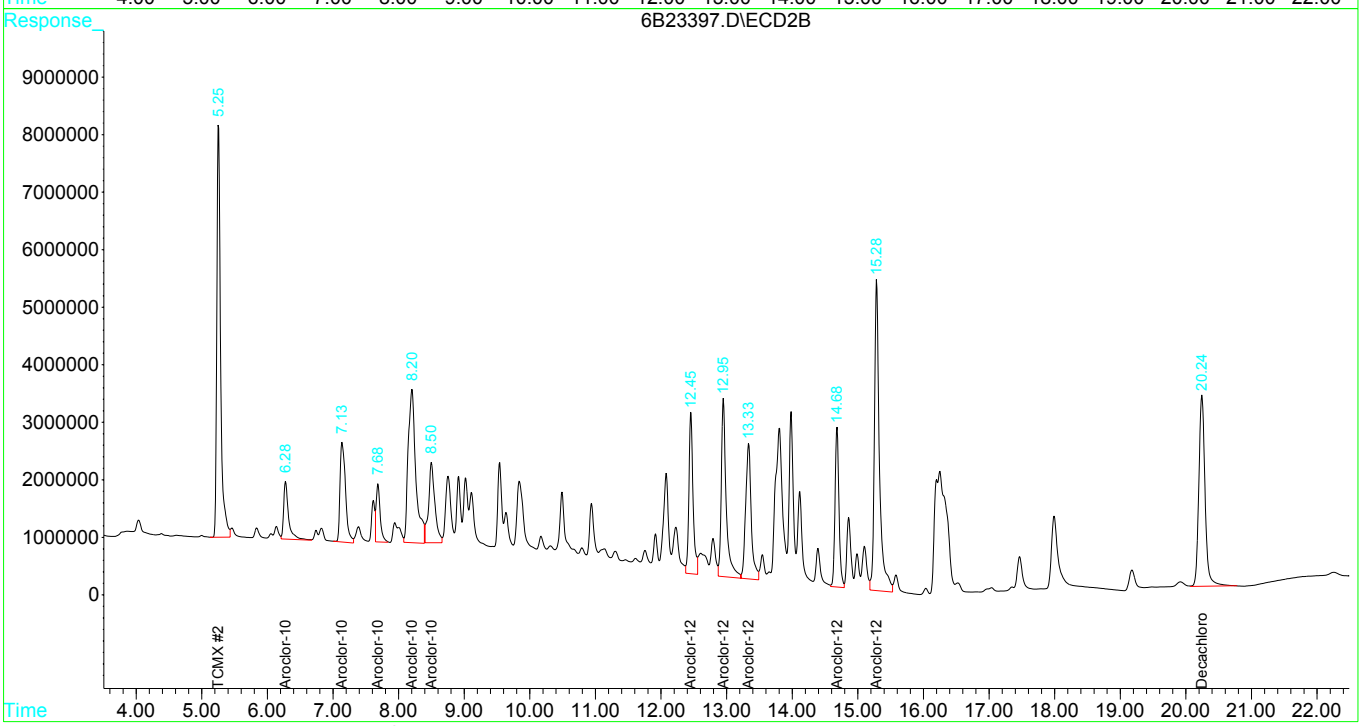
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181011\6B23397.D\ECD1A.CH Vial: 96
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181011\6B23397.D\ECD2B.CH
Acq On : 11 Oct 2018 22:07 Operator: RL
Sample : SEQ-CCV Inst : GCECD-6
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 12 7:56 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





CALIBRATION VERIFICATION SUMMARY

Client: **Peak Environmental**
Work Order: **8100452**

Lab Sample ID (X500):	S8J1201-CCV2(1)	Init. Calib. Date(s):	09/25/2018
File ID:	6B23428.D	Date Analyzed:	10/12/2018 12:32
PCBs	Column 1	Matrix:	Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Average-Aroclor-1016	-----	-----	-----	489212	489879	0.10
Aroclor-1016 (1)	04.86	04.76	04.96	211764	236319	11.60
Aroclor-1016 (2)	05.46	05.36	05.56	432364	379154	12.30
Aroclor-1016 (3)	05.85	05.75	05.95	311160	391151	25.70
Aroclor-1016 (4)	06.42	06.32	06.52	1066628	1013619	5.00
Aroclor-1016 (5)	06.67	06.57	06.77	424144	429149	1.20
Average-Aroclor-1260	-----	-----	-----	963897	1046925	8.60
Aroclor-1260 (1)	10.06	09.96	10.16	578436	521228	9.90
Aroclor-1260 (2)	10.70	10.60	10.80	1202407	1365615	13.60
Aroclor-1260 (3)	11.34	11.24	11.44	1000381	1085042	8.50
Aroclor-1260 (4)	12.83	12.73	12.93	1648039	1844663	11.90
Aroclor-1260 (5)	14.89	14.79	14.99	390220	418078	7.10
Tetrachloro-m-xylene	04.25	04.15	04.35	12039880	11211800	6.90
Decachlorobiphenyl	15.99	15.89	16.09	10947110	10848370	0.90
					Average %D:	9.55

* - Outside of QC limits

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CALIBRATION VERIFICATION SUMMARY

Client: **Peak Environmental**
Work Order: **8100452**

Lab Sample ID (X500):	S8J1201-CCV2(2)	Init. Calib. Date(s):	09/25/2018
File ID:	6B23428.D	Date Analyzed:	10/12/2018 12:32
PCBs	Column 2	Matrix:	Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Average-Aroclor-1016 [2C]	-----	-----	-----	185625	203909	9.80
Aroclor-1016 (1) [2C]	06.27	06.17	06.37	89712	102069	13.80
Aroclor-1016 (2) [2C]	07.14	07.04	07.24	182386	205763	12.80
Aroclor-1016 (3) [2C]	07.68	07.58	07.78	77154	103176	33.70
Aroclor-1016 (4) [2C]	08.20	08.10	08.30	407320	452984	11.20
Aroclor-1016 (5) [2C]	08.49	08.39	08.59	171552	155551	9.30
Average-Aroclor-1260 [2C]	-----	-----	-----	297563	340614	14.50
Aroclor-1260 (1) [2C]	12.45	12.35	12.55	211007	245710	16.40
Aroclor-1260 (2) [2C]	12.94	12.84	13.04	267464	327465	22.40
Aroclor-1260 (3) [2C]	13.33	13.23	13.43	239078	283898	18.70
Aroclor-1260 (4) [2C]	14.68	14.58	14.78	218661	239500	9.50
Aroclor-1260 (5) [2C]	15.28	15.18	15.38	551606	606497	10.00
Tetrachloro-m-xylene [2C]	05.25	05.15	05.35	4999281	5951186	19.00
Decachlorobiphenyl [2C]	20.24	20.14	20.34	5281753	4483482	15.10
					Average %D:	15.99

* - Outside of QC limits

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Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181012\6B23428.D\ECD1A.CH Vial: 96
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181012\6B23428.D\ECD2B.CH
Acq On : 12 Oct 2018 12:32 Operator: RL
Sample : SEQ-CCV Inst : GCECD-6
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 12 13:26 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Initial Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
System Monitoring Compounds						
1) S TCMX	4.25	5.25	560.6E6	297.6E6	46.561m	59.520 #
Spiked Amount 50.000	Range 40 - 149		Recovery =		93.12%	119.04%
2) S Decachlorobiphen	15.99	20.24	542.4E6	224.2E6	49.549	42.443
Spiked Amount 50.000	Range 52 - 136		Recovery =		99.10%	84.89%
Target Compounds						
3) L3 Aroclor-1016 (1)	4.86	6.27	118.2E6	51034430	557.978m	568.868
4) L3 Aroclor-1016 (2)	5.46	7.14	189.6E6	102.9E6	438.467m	564.086 #
5) L3 Aroclor-1016 (3)	5.85	7.68	195.6E6	51588084	628.537m	673.969
6) L3 Aroclor-1016 (4)	6.42	8.20	506.8E6	226.5E6	475.151m	556.055m
7) L3 Aroclor-1016 (5)	6.67	8.49	214.6E6	77775629	505.900m	453.365m
Sum Aroclor-1016 (1)			1224.7E6	509.8E6	2606.033	2816.343
Average Aroclor-1016 (1)					521.207	563.269
Sum Aroclor-1221 (1)			0	0	N.D.	N.D.
Average Aroclor-1221 (1)					0.000	0.000
Sum Aroclor-1232 (1)			0	0	N.D.	N.D.
Average Aroclor-1232 (1)					0.000	0.000
Sum Aroclor-1242 (1)			0	0	N.D.	N.D.
Average Aroclor-1242 (1)					0.000	0.000
Sum Aroclor-1248 (1)			0	0	N.D.	N.D.
Average Aroclor-1248 (1)					0.000	0.000
Sum Aroclor-1254 (1)			0	0	N.D.	N.D.
Average Aroclor-1254 (1)					0.000	0.000
28) L9 Aroclor-1260 (1)	10.06	12.45	260.6E6	122.9E6	450.550m	582.231 #
29) L9 Aroclor-1260 (2)	10.70	12.94	682.8E6	163.7E6	567.868m	612.167
30) L9 Aroclor-1260 (3)	11.34	13.33	542.5E6	141.9E6	542.314m	593.735
31) L9 Aroclor-1260 (4)	12.83	14.68	922.3E6	119.7E6	559.654m	547.651
32) L9 Aroclor-1260 (5)	14.89	15.28	209.0E6	303.2E6	535.695	549.756
Sum Aroclor-1260 (1)			2617.3E6	851.5E6	2656.081	2885.540
Average Aroclor-1260 (1)					531.216	577.108
Sum Aroclor-1262 (1)			0	0	N.D.	N.D.
Average Aroclor-1262 (1)					0.000	0.000
Sum Aroclor-1268 (1)			0	0	N.D.	N.D.
Average Aroclor-1268 (1)					0.000	0.000

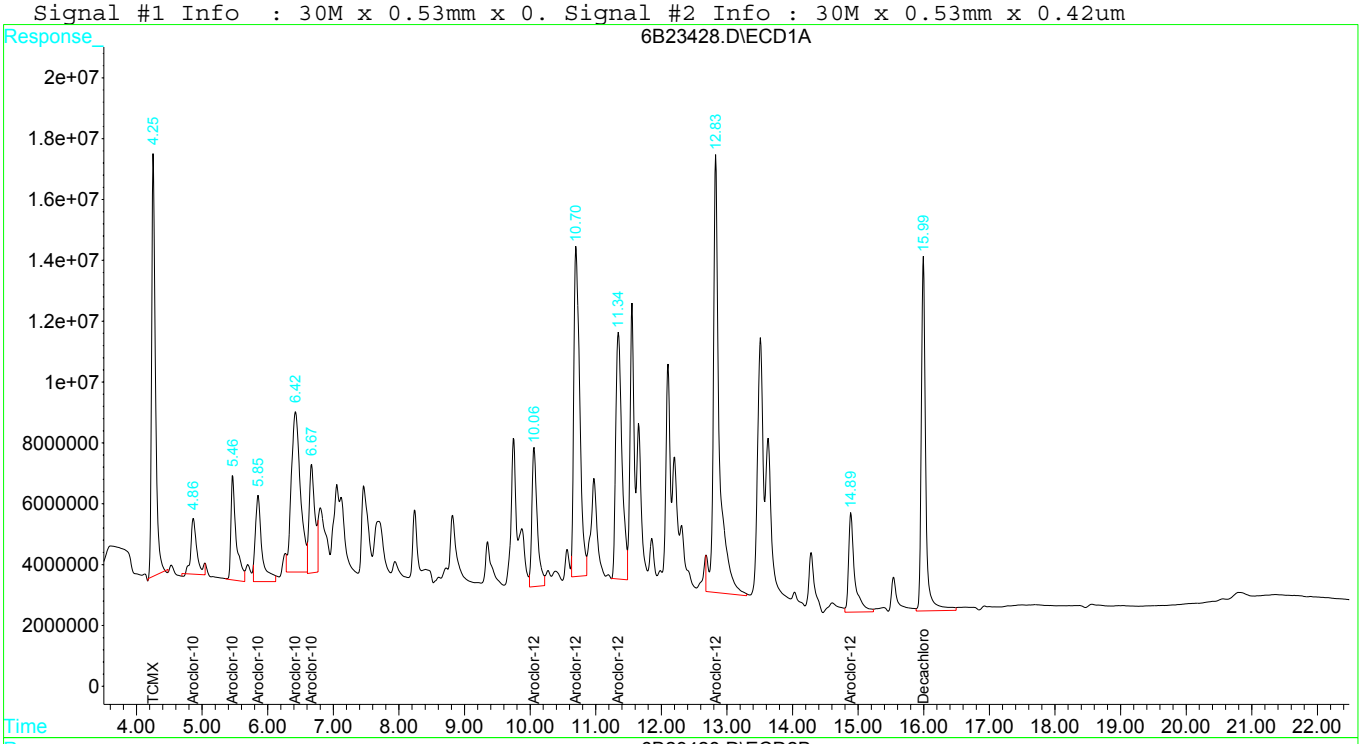
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6B23428.D 80820925.M Fri Oct 12 13:27:22 2018 SS

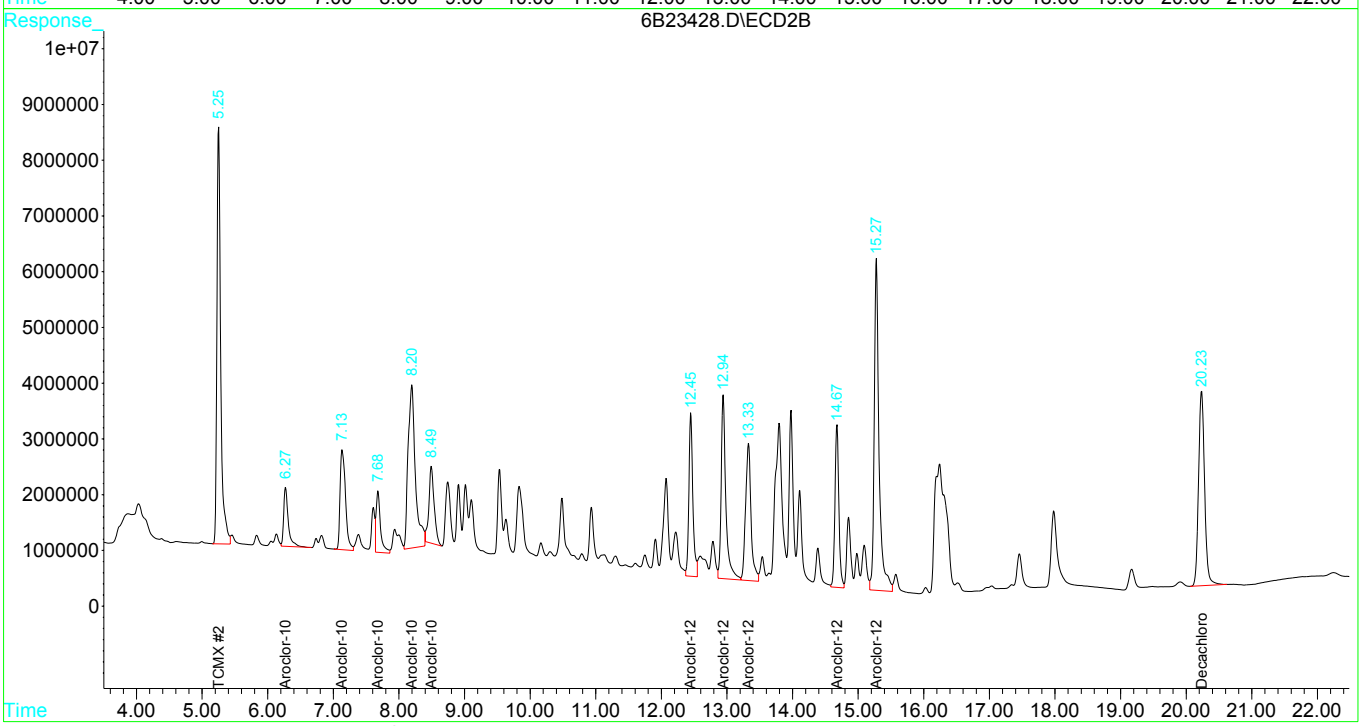
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181012\6B23428.D\ECD1A.CH Vial: 96
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181012\6B23428.D\ECD2B.CH
Acq On : 12 Oct 2018 12:32 Operator: RL
Sample : SEQ-CCV Inst : GCECD-6
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 12 13:26 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





CALIBRATION VERIFICATION SUMMARY

Client: **Peak Environmental**
Work Order: **8100452**

Lab Sample ID (500):	S8J1201-CCV3(1)	Init. Calib. Date(s):	09/25/2018
File ID:	6B23452.D	Date Analyzed:	10/12/2018 22:38
PCBs	Column 1	Matrix:	Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Average-Aroclor-1016	-----	-----	-----	489212	500467	2.30
Aroclor-1016 (1)	04.86	04.76	04.96	211764	226495	7.00
Aroclor-1016 (2)	05.47	05.37	05.57	432364	458916	6.10
Aroclor-1016 (3)	05.85	05.75	05.95	311160	403781	29.80
Aroclor-1016 (4)	06.42	06.32	06.52	1066628	984666	7.70
Aroclor-1016 (5)	06.66	06.56	06.76	424144	428477	1.00
Average-Aroclor-1260	-----	-----	-----	963897	967087	0.30
Aroclor-1260 (1)	10.06	09.96	10.16	578436	511702	11.50
Aroclor-1260 (2)	10.70	10.60	10.80	1202407	1375504	14.40
Aroclor-1260 (3)	11.34	11.24	11.44	1000381	995055	0.50
Aroclor-1260 (4)	12.83	12.73	12.93	1648039	1527679	7.30
Aroclor-1260 (5)	14.89	14.79	14.99	390220	425497	9.00
Tetrachloro-m-xylene	04.25	04.15	04.35	12039880	12060070	0.20
Decachlorobiphenyl	16.00	15.90	16.10	10947110	11517900	5.20
					Average %D:	8.31

* - Outside of QC limits

F-VII

CALIBRATION VERIFICATION SUMMARY

Client: **Peak Environmental**
Work Order: **8100452**

Lab Sample ID (500):	S8J1201-CCV3(2)	Init. Calib. Date(s):	09/25/2018
File ID:	6B23452.D	Date Analyzed:	10/12/2018 22:38
PCBs	Column 2	Matrix:	Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Average-Aroclor-1016 [2C]	-----	-----	-----	185625	205202	10.50
Aroclor-1016 (1) [2C]	06.27	06.17	06.37	89712	102332	14.10
Aroclor-1016 (2) [2C]	07.13	07.03	07.23	182386	202774	11.20
Aroclor-1016 (3) [2C]	07.68	07.58	07.78	77154	92581	20.00
Aroclor-1016 (4) [2C]	08.20	08.10	08.30	407320	428289	5.10
Aroclor-1016 (5) [2C]	08.49	08.39	08.59	171552	200033	16.60
Average-Aroclor-1260 [2C]	-----	-----	-----	297563	322063	8.20
Aroclor-1260 (1) [2C]	12.45	12.35	12.55	211007	235643	11.70
Aroclor-1260 (2) [2C]	12.95	12.85	13.05	267464	309658	15.80
Aroclor-1260 (3) [2C]	13.33	13.23	13.43	239078	236292	1.20
Aroclor-1260 (4) [2C]	14.68	14.58	14.78	218661	230188	5.30
Aroclor-1260 (5) [2C]	15.28	15.18	15.38	551606	598535	8.50
Tetrachloro-m-xylene [2C]	05.25	05.15	05.35	4999281	5504700	10.10
Decachlorobiphenyl [2C]	20.24	20.14	20.34	5281753	5213400	1.30
					Average %D:	10.08

* - Outside of QC limits

F-VII

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181012\6B23452.D\ECD1A.CH Vial: 96
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181012\6B23452.D\ECD2B.CH
Acq On : 12 Oct 2018 22:38 Operator: RL
Sample : SEQ-CCV Inst : GCECD-6
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 13 11:53 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Initial Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
System Monitoring Compounds						
1) S TCMX	4.25	5.25	603.0E6	275.2E6	50.084	55.055
Spiked Amount 50.000	Range 40 - 149		Recovery =		100.17%	110.11%
2) S Decachlorobiphen	16.00	20.24	575.9E6	260.7E6	52.607	49.353
Spiked Amount 50.000	Range 52 - 136		Recovery =		105.21%	98.71%
Target Compounds						
3) L3 Aroclor-1016 (1)	4.86	6.27	113.2E6	51165995	534.781m	570.335
4) L3 Aroclor-1016 (2)	5.47	7.13	229.5E6	101.4E6	530.706	555.892
5) L3 Aroclor-1016 (3)	5.85	7.68	201.9E6	46290428	648.831m	604.758
6) L3 Aroclor-1016 (4)	6.42	8.20	492.3E6	214.1E6	461.579m	525.741
7) L3 Aroclor-1016 (5)	6.66	8.49	214.2E6	100.0E6	505.108m	583.008
Sum Aroclor-1016 (1)			1251.2E6	513.0E6	2681.005	2839.734
Average Aroclor-1016 (1)					536.201	567.947
Sum Aroclor-1221 (1)			0	0	N.D.	N.D.
Average Aroclor-1221 (1)					0.000	0.000
Sum Aroclor-1232 (1)			0	0	N.D.	N.D.
Average Aroclor-1232 (1)					0.000	0.000
Sum Aroclor-1242 (1)			0	0	N.D.	N.D.
Average Aroclor-1242 (1)					0.000	0.000
Sum Aroclor-1248 (1)			0	0	N.D.	N.D.
Average Aroclor-1248 (1)					0.000	0.000
Sum Aroclor-1254 (1)			0	0	N.D.	N.D.
Average Aroclor-1254 (1)					0.000	0.000
28) L9 Aroclor-1260 (1)	10.06	12.45	255.9E6	117.8E6	442.316m	558.378 #
29) L9 Aroclor-1260 (2)	10.70	12.95	687.8E6	154.8E6	571.979m	578.878
30) L9 Aroclor-1260 (3)	11.34	13.33	497.5E6	118.1E6	497.338m	494.174
31) L9 Aroclor-1260 (4)	12.83	14.68	763.8E6	115.1E6	463.484m	526.359
32) L9 Aroclor-1260 (5)	14.89	15.28	212.7E6	299.3E6	545.200	542.539
Sum Aroclor-1260 (1)			2417.7E6	805.2E6	2520.318	2700.327
Average Aroclor-1260 (1)					504.064	540.065
Sum Aroclor-1262 (1)			0	0	N.D.	N.D.
Average Aroclor-1262 (1)					0.000	0.000
Sum Aroclor-1268 (1)			0	0	N.D.	N.D.
Average Aroclor-1268 (1)					0.000	0.000

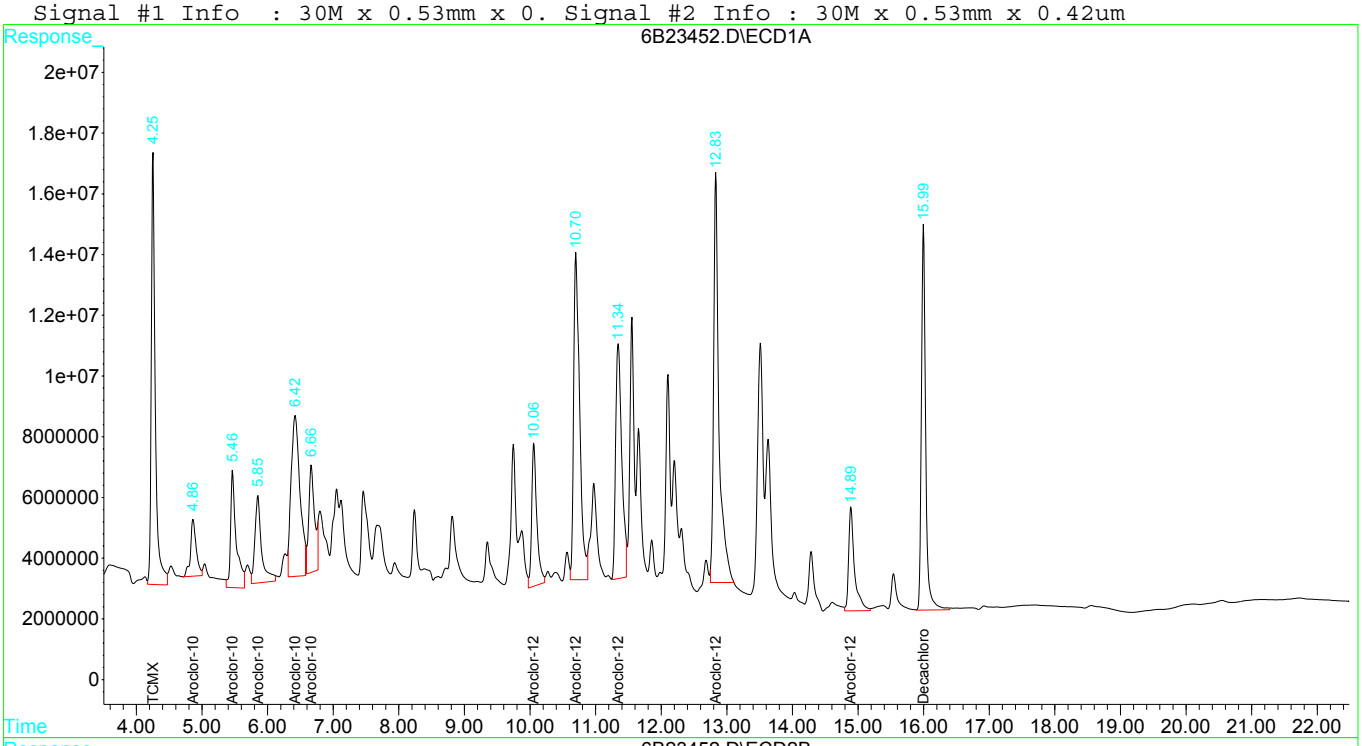
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6B23452.D 80820925.M Sat Oct 13 11:58:23 2018 SS

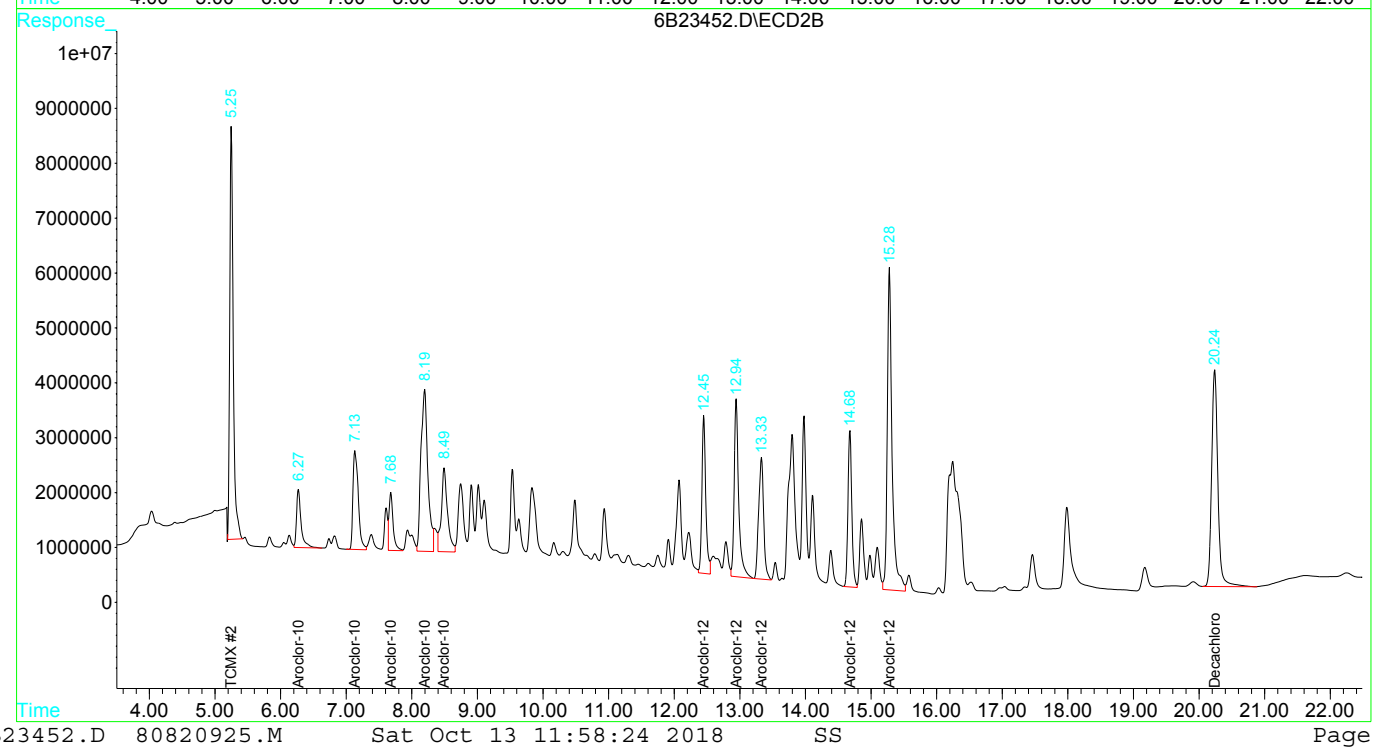
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181012\6B23452.D\ECD1A.CH Vial: 96
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181012\6B23452.D\ECD2B.CH
Acq On : 12 Oct 2018 22:38 Operator: RL
Sample : SEQ-CCV Inst : GCECD-6
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 13 11:53 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





GC

Peak Environmental

Work Order: 8100452

Project: Ridgewood

ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client:	**Peak Environmental**	**Project:**	**Ridgewood**
Client Sample ID:	**Blank**	**Work Order:**	**8100452**
Lab Sample ID:	**B8J1103-BLK1**		

		Prep Date:	10/11/2018 08:17	File ID:	E22949.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/11/2018 21:15
		Matrix:	Soil	Sequence:	S8J1218
		Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg wet)	MDL	RL	Q
NJDEP-EPH2	Total EPH	ND	10.0	20.0	U

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22949.D Vial: 16
Acq On : 11 Oct 2018 9:15 pm Operator: BW
Sample : B8J1103-BLK1 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 12 16:06 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc	Units
Target Compounds					
9)	o-Terphenyl	13.57	580602	26.368	mg/L
11)	Chlorooctadecane	14.45	400643	23.543	mg/L

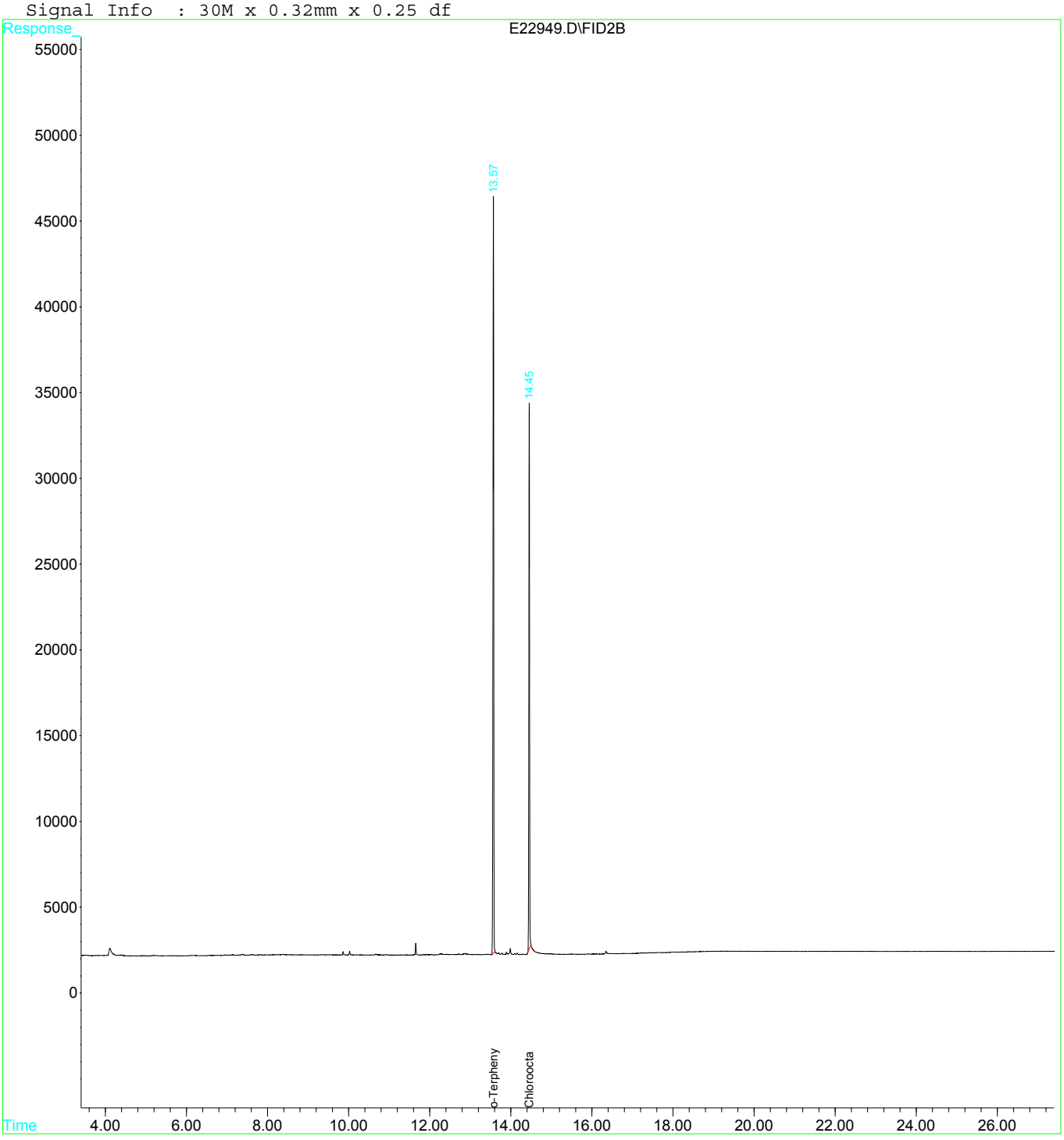
(f)=RT Delta > 1/2 Window (m)=manual int.
E22949.D ALIP1106.M Fri Oct 12 16:06:45 2018 SS Page 1

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22949.D Vial: 16
Acq On : 11 Oct 2018 9:15 pm Operator: BW
Sample : B8J1103-BLK1 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 12 16:06 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client: **Peak Environmental**
Client Sample ID: **NTP-1A**
Lab Sample ID: **8100452-01**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:17	File ID:	E22935.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/11/18 12:51
Dilution:	1	Matrix:	Soil	Sequence:	S8J1218
Percent Solids:	89.91	Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NJDEP-EPH2	Total EPH	62.8	11.1	22.2	

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22935.D Vial: 2
Acq On : 11 Oct 2018 12:51 pm Operator: BW
Sample : 8100452-01 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 13:42 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
9)	o-Terphenyl	13.57	574237	26.079	mg/L	
11)	Chlorooctadecane	14.46	417116	24.511	mg/L	
25)	Total EPH	13.57	8160091	332.829	mg/L	m

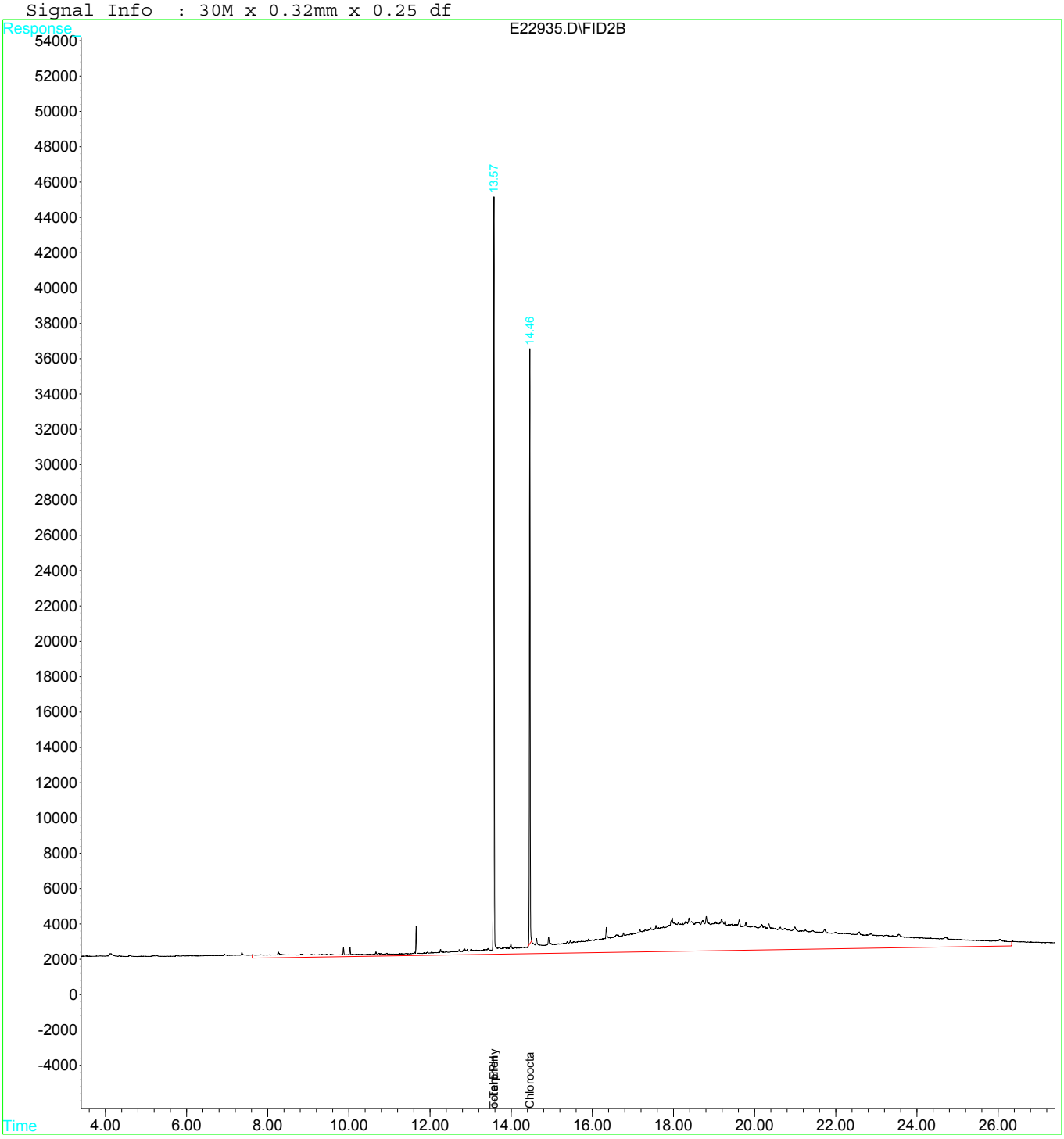
(f)=RT Delta > 1/2 Window (m)=manual int.
E22935.D ALIP1106.M Fri Oct 12 16:06:24 2018 SS Page 1

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22935.D Vial: 2
Acq On : 11 Oct 2018 12:51 pm Operator: BW
Sample : 8100452-01 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 13:42 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client: **Peak Environmental**
Client Sample ID: **NTP-2A**
Lab Sample ID: **8100452-02**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:17	File ID:	E22936.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/11/18 13:27
Dilution:	1	Matrix:	Soil	Sequence:	S8J1218
Percent Solids:	92.54	Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NJDEP-EPH2	Total EPH	97.5	10.8	21.6	

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22936.D Vial: 3
Acq On : 11 Oct 2018 1:27 pm Operator: BW
Sample : 8100452-02 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 14:07 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
9)	o-Terphenyl	13.58	612460	27.814	mg/L
11)	Chlorooctadecane	14.46	456551	26.828	mg/L
25)	Total EPH	13.57	12400867	505.799	mg/L m

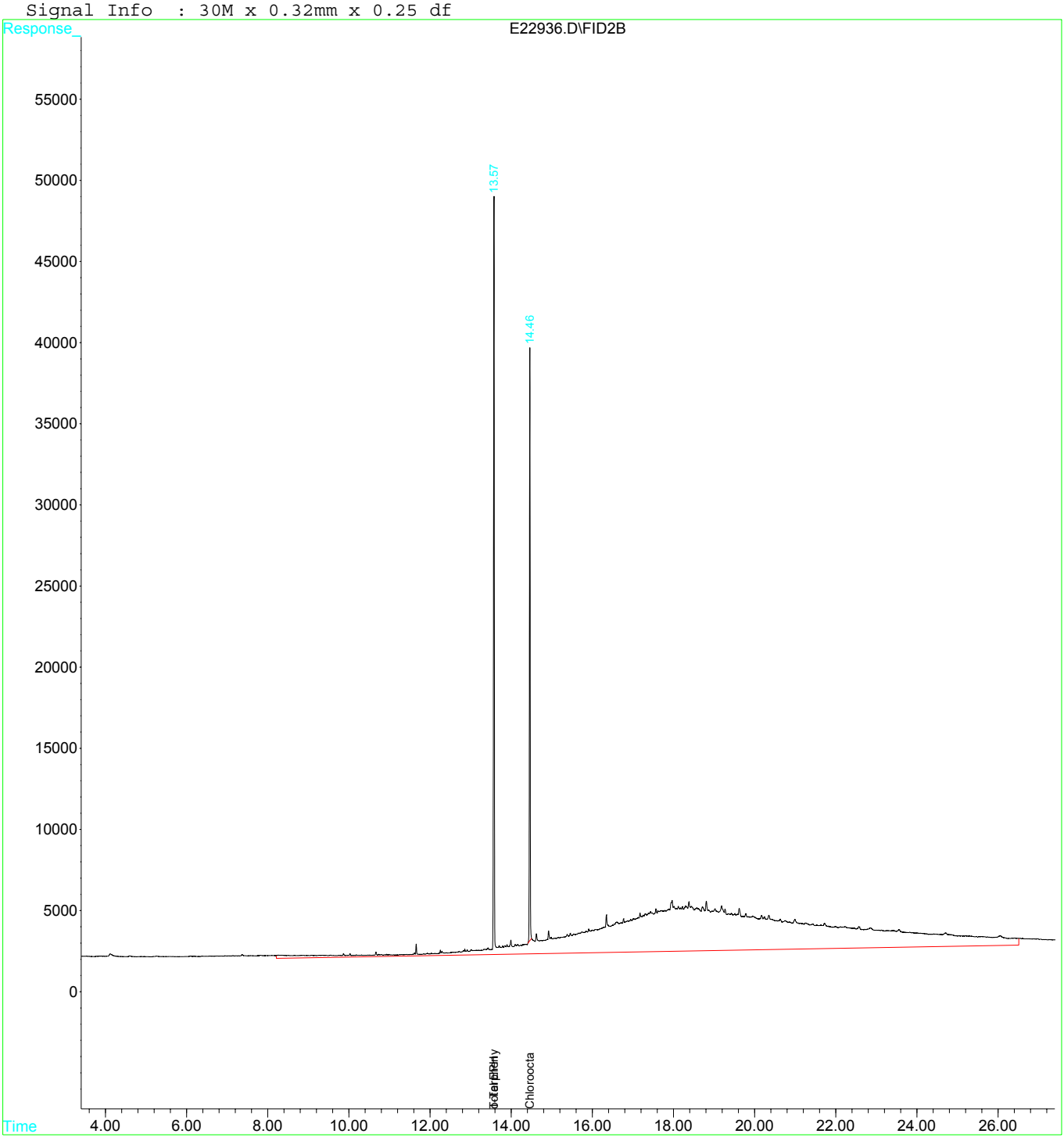
(f)=RT Delta > 1/2 Window (m)=manual int.
E22936.D ALIP1106.M Fri Oct 12 16:06:27 2018 SS Page 1

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22936.D Vial: 3
Acq On : 11 Oct 2018 1:27 pm Operator: BW
Sample : 8100452-02 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 14:07 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client: **Peak Environmental**
Client Sample ID: **NTP-2B**
Lab Sample ID: **8100452-03**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:17	File ID:	E22937.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/11/18 14:02
Dilution:	1	Matrix:	Soil	Sequence:	S8J1218
Percent Solids:	92.25	Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NJDEP-EPH2	Total EPH	38.1	10.8	21.7	

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22937.D Vial: 4
Acq On : 11 Oct 2018 2:02 pm Operator: BW
Sample : 8100452-03 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 14:32 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
9)	o-Terphenyl	13.57	599348	27.219	mg/L
11)	Chlorooctadecane	14.46	445679	26.189	mg/L
25)	Total EPH	13.57	5622677	229.334	mg/L m

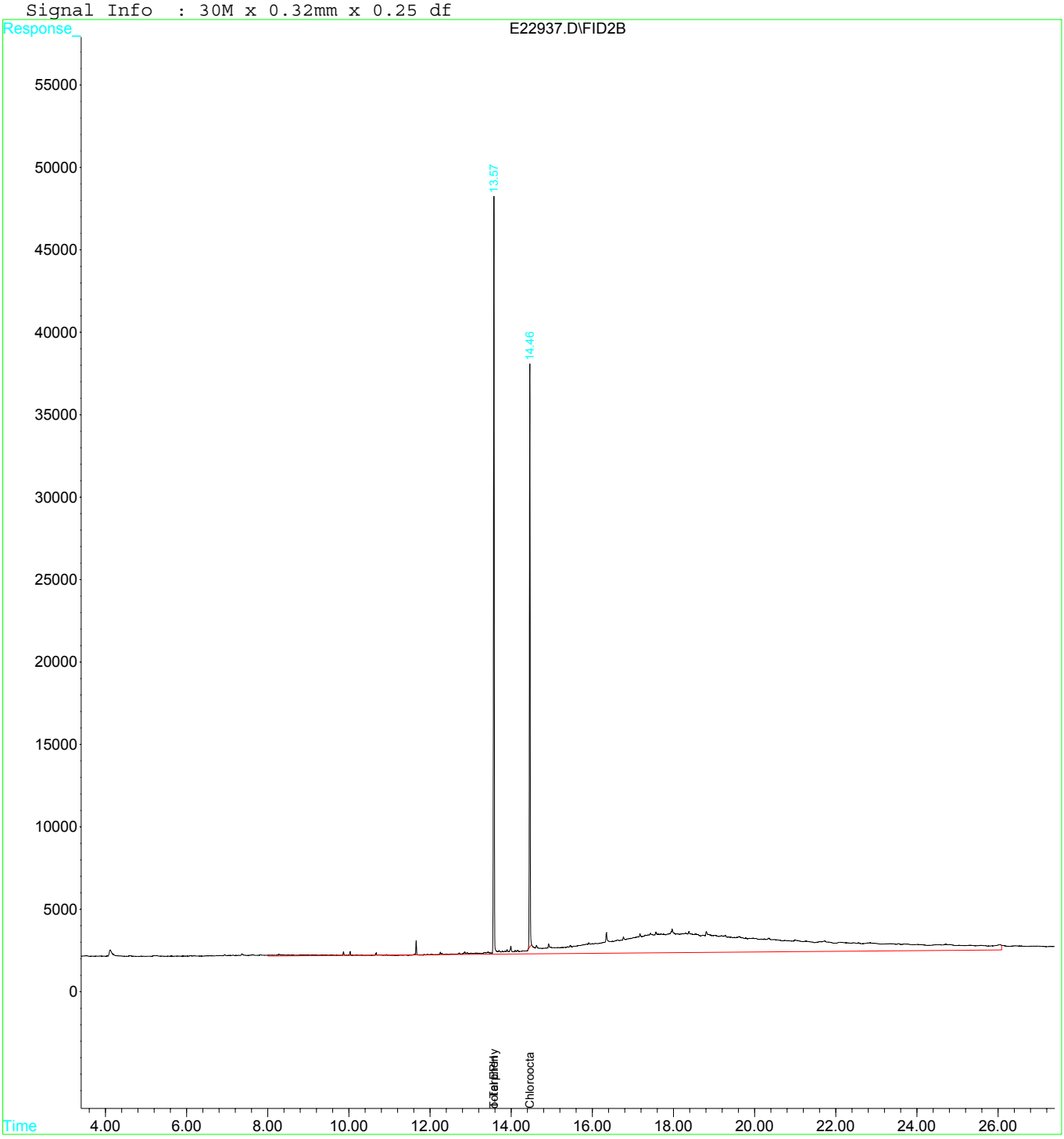
(f)=RT Delta > 1/2 Window (m)=manual int.
E22937.D ALIP1106.M Fri Oct 12 16:06:30 2018 SS Page 1

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22937.D Vial: 4
Acq On : 11 Oct 2018 2:02 pm Operator: BW
Sample : 8100452-03 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 14:32 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client: **Peak Environmental**
Client Sample ID: **NTP-3B**
Lab Sample ID: **8100452-04**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:17	File ID:	E22938.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/11/18 14:37
Dilution:	1	Matrix:	Soil	Sequence:	S8J1218
Percent Solids:	91.33	Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NJDEP-EPH2	Total EPH	ND	10.9	21.9	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22938.D Vial: 5
Acq On : 11 Oct 2018 2:37 pm Operator: BW
Sample : 8100452-04 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 15:28 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc	Units
Target Compounds					
9)	o-Terphenyl	13.57	569746	25.875	mg/L
11)	Chlorooctadecane	14.46	414587	24.362	mg/L

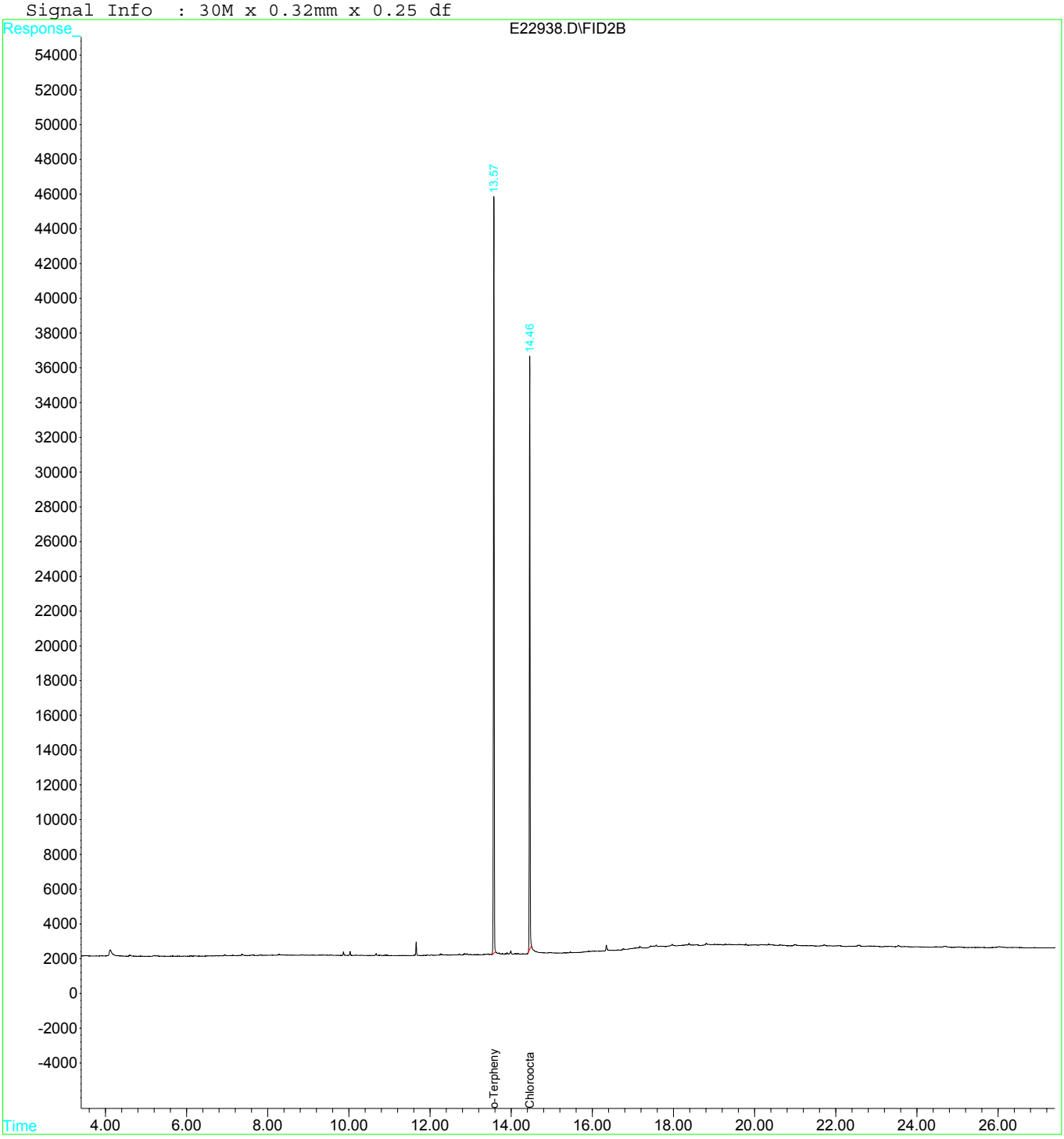
(f)=RT Delta > 1/2 Window (m)=manual int.
E22938.D ALIP1106.M Fri Oct 12 16:06:33 2018 SS

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22938.D Vial: 5
Acq On : 11 Oct 2018 2:37 pm Operator: BW
Sample : 8100452-04 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 15:28 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client: **Peak Environmental**
Client Sample ID: **NTP-4B**
Lab Sample ID: **8100452-05**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:35	Prep Date:	10/11/18 08:17	File ID:	E22939.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/11/18 15:25
Dilution:	1	Matrix:	Soil	Sequence:	S8J1218
Percent Solids:	92.00	Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NJDEP-EPH2	Total EPH	ND	10.9	21.7	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22939.D Vial: 6
Acq On : 11 Oct 2018 3:25 pm Operator: BW
Sample : 8100452-05 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 16:22 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc	Units
Target Compounds					
9)	o-Terphenyl	13.57	571790	25.968	mg/L
11)	Chlorooctadecane	14.46	422450	24.824	mg/L

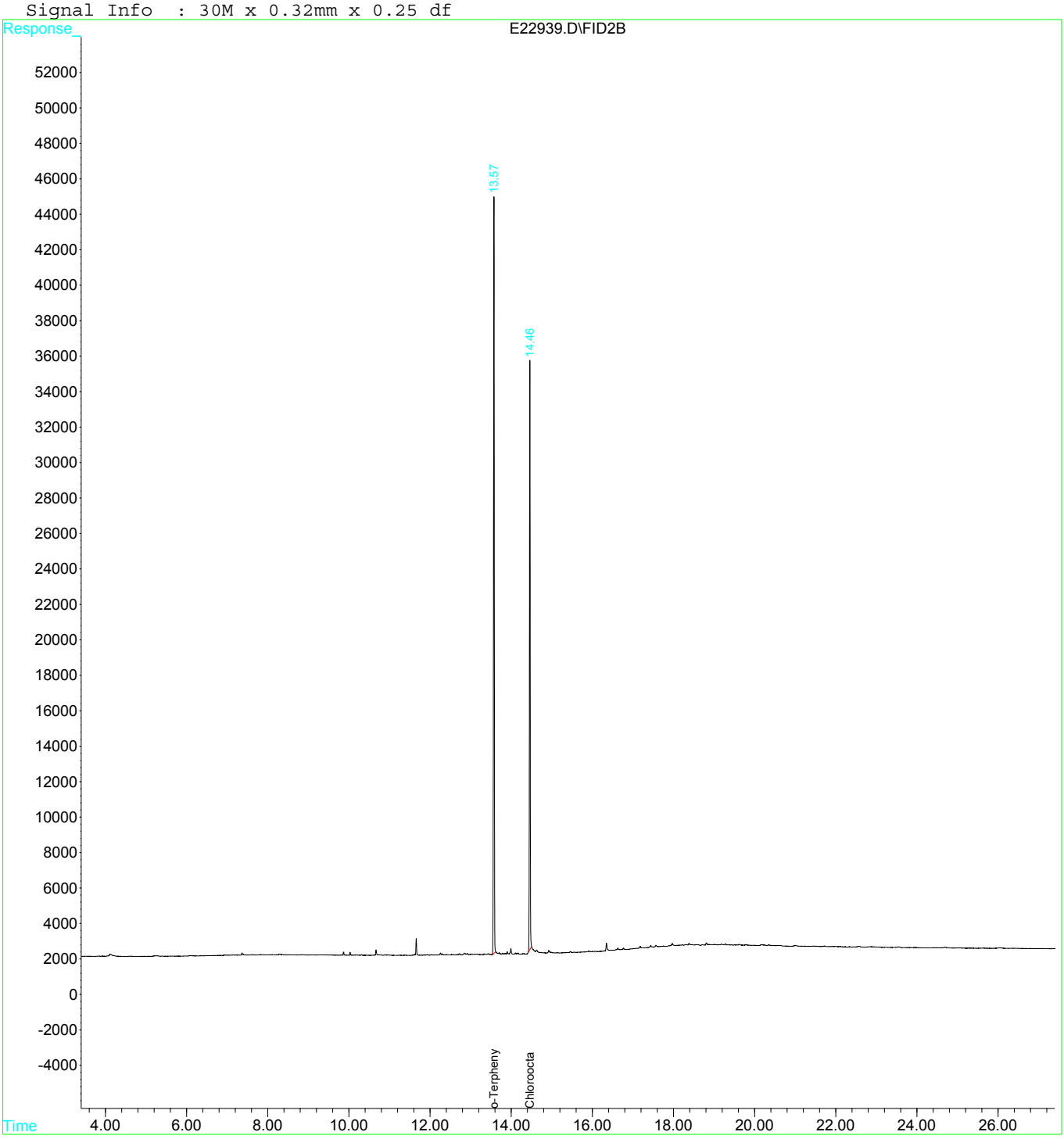
(f)=RT Delta > 1/2 Window (m)=manual int.
E22939.D ALIP1106.M Fri Oct 12 16:06:35 2018 SS

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22939.D Vial: 6
Acq On : 11 Oct 2018 3:25 pm Operator: BW
Sample : 8100452-05 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 16:22 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client: **Peak Environmental**
Client Sample ID: **NTP-6**
Lab Sample ID: **8100452-06**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:50	Prep Date:	10/11/18 08:17	File ID:	E22940.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/11/18 16:00
Dilution:	1	Matrix:	Soil	Sequence:	S8J1218
Percent Solids:	87.70	Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NJDEP-EPH2	Total EPH	ND	11.4	22.8	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22940.D Vial: 7
Acq On : 11 Oct 2018 4:00 pm Operator: BW
Sample : 8100452-06 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 16:56 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc	Units
Target Compounds					
9)	o-Terphenyl	13.57	520767	23.650	mg/L
11)	Chlorooctadecane	14.46	379562	22.304	mg/L

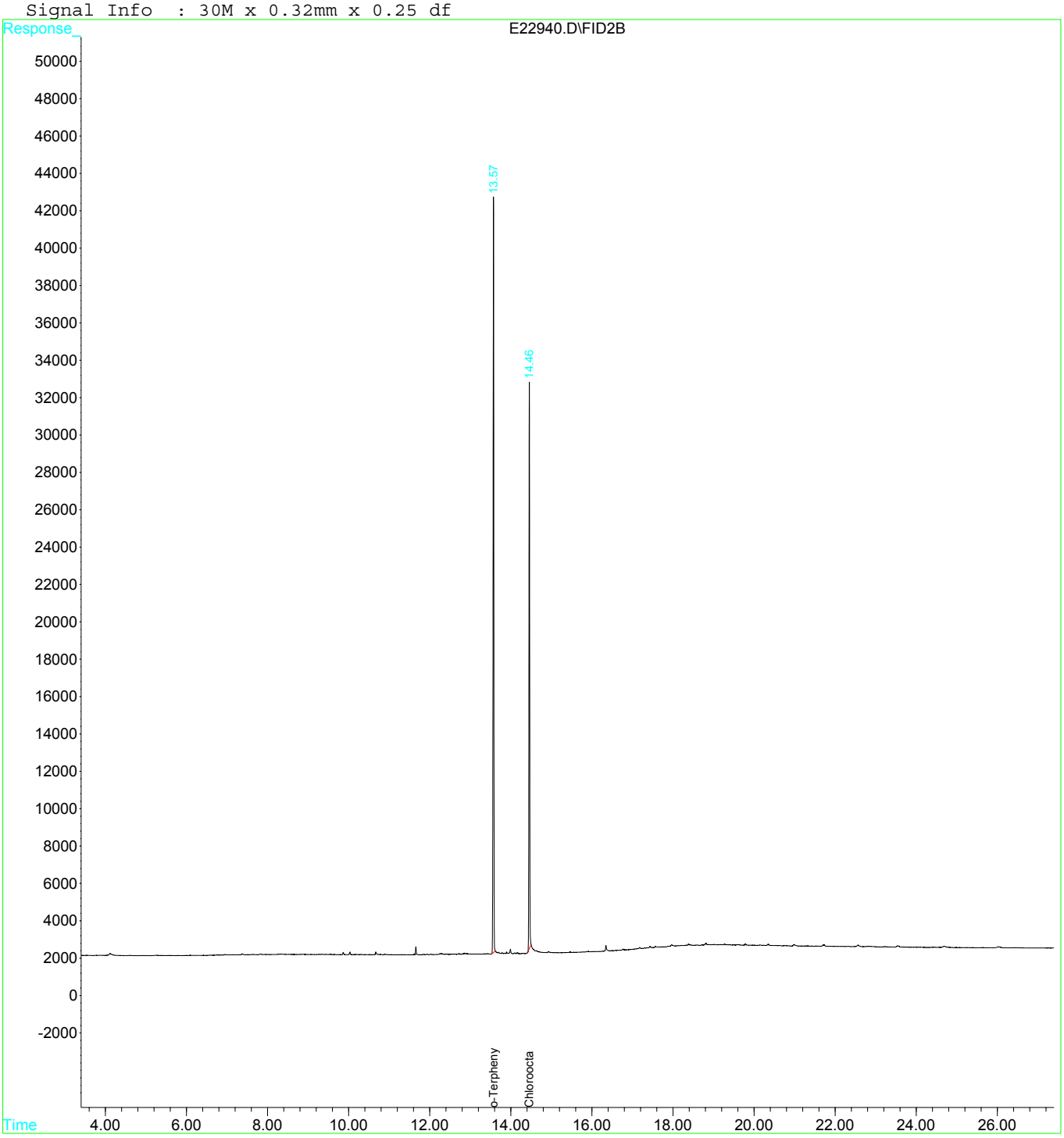
(f)=RT Delta > 1/2 Window (m)=manual int.
E22940.D ALIP1106.M Fri Oct 12 16:06:37 2018 SS Page 1

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22940.D Vial: 7
Acq On : 11 Oct 2018 4:00 pm Operator: BW
Sample : 8100452-06 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 16:56 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



E22940.D ALIP1106.M Fri Oct 12 16:06:38 2018 SS Page 2

ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client: **Peak Environmental**
Client Sample ID: **NTP-7**
Lab Sample ID: **8100452-07**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:00	Prep Date:	10/11/18 08:17	File ID:	E22941.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/11/18 16:35
Dilution:	1	Matrix:	Soil	Sequence:	S8J1218
Percent Solids:	91.36	Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NJDEP-EPH2	Total EPH	65.8	10.9	21.9	

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22941.D Vial: 8
Acq On : 11 Oct 2018 4:35 pm Operator: BW
Sample : 8100452-07 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 17:08 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
9)	o-Terphenyl	13.57	547163	24.849	mg/L
11)	Chlorooctadecane	14.46	400305	23.523	mg/L
25)	Total EPH	13.57	8555007	348.936	mg/L m

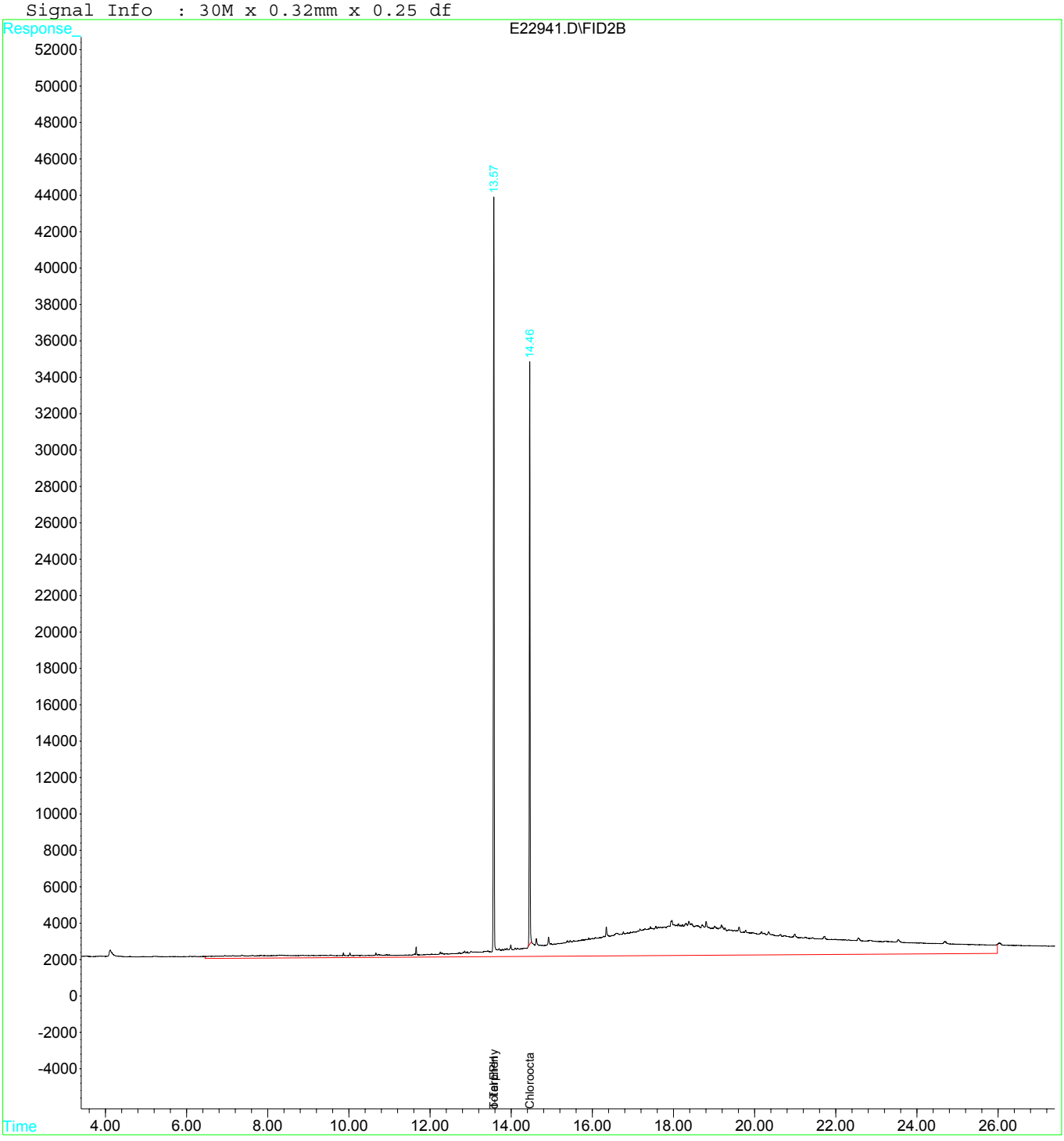
(f)=RT Delta > 1/2 Window (m)=manual int.
E22941.D ALIP1106.M Fri Oct 12 16:06:40 2018 SS Page 1

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22941.D Vial: 8
Acq On : 11 Oct 2018 4:35 pm Operator: BW
Sample : 8100452-07 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 17:08 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



E22941.D ALIP1106.M Fri Oct 12 16:06:40 2018 SS Page 2

ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client: **Peak Environmental**
Client Sample ID: **STP-1B**
Lab Sample ID: **8100452-08**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:15	Prep Date:	10/11/18 08:17	File ID:	E22942.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/11/18 17:10
Dilution:	1	Matrix:	Soil	Sequence:	S8J1218
Percent Solids:	89.59	Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NJDEP-EPH2	Total EPH	ND	11.2	22.3	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22942.D Vial: 9
Acq On : 11 Oct 2018 5:10 pm Operator: BW
Sample : 8100452-08 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 12 9:27 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc Units
Target Compounds				
9)	o-Terphenyl	13.57	553827	25.152 mg/L
11)	Chlorooctadecane	14.46	410480	24.121 mg/L

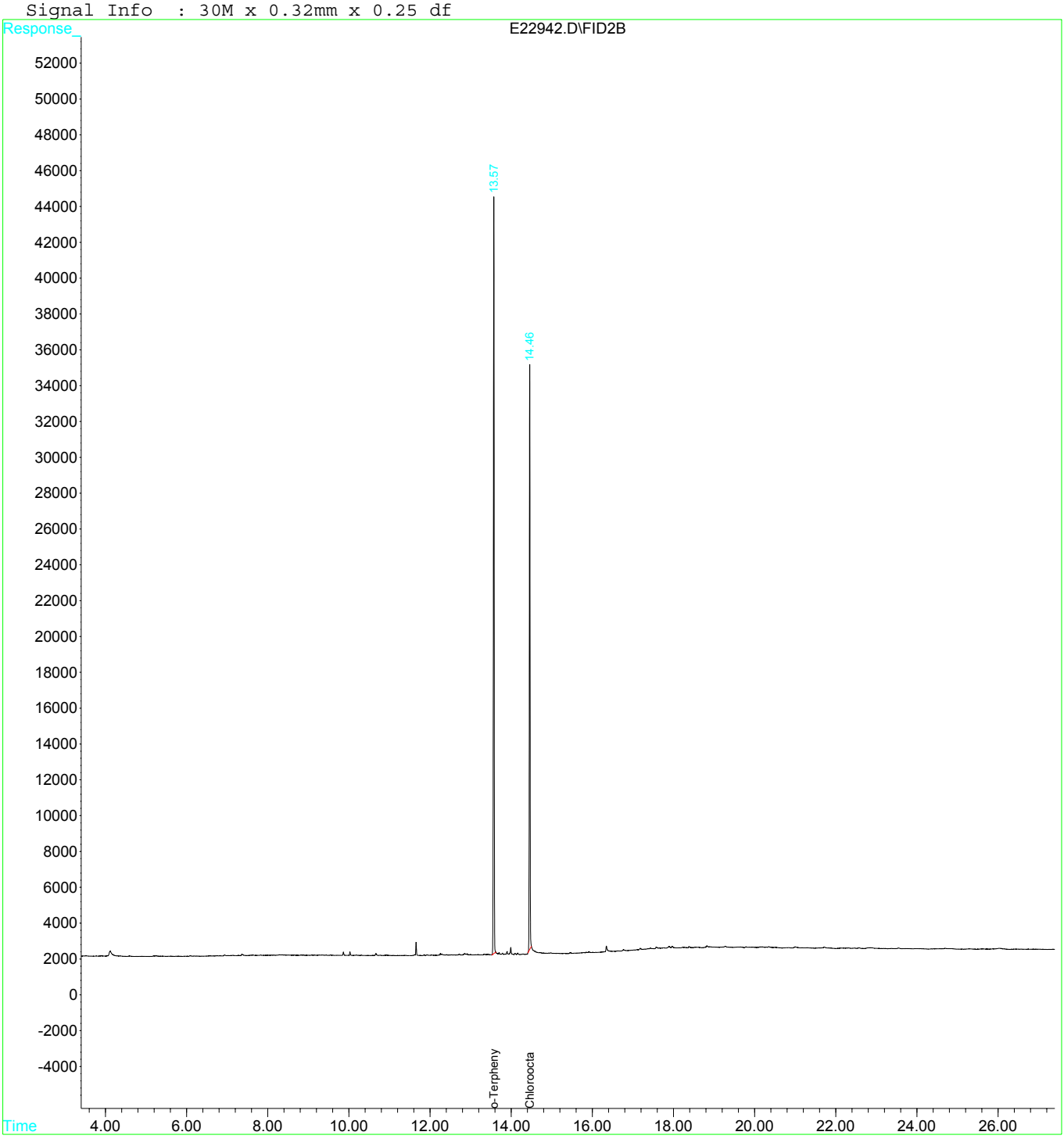
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E22942.D ALIP1106.M Fri Oct 12 16:06:43 2018 SS Page 1

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22942.D Vial: 9
Acq On : 11 Oct 2018 5:10 pm Operator: BW
Sample : 8100452-08 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 12 9:27 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client: **Peak Environmental**
Client Sample ID: **STP-2B**
Lab Sample ID: **8100452-09**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:30	Prep Date:	10/11/18 08:17	File ID:	E22960.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/12/18 11:28
Dilution:	1	Matrix:	Soil	Sequence:	S8J1601
Percent Solids:	91.55	Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NJDEP-EPH2	Total EPH	ND	10.9	21.8	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181012\E22960.D Vial: 2
Acq On : 12 Oct 2018 11:28 am Operator: BW
Sample : 8100452-09 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 12 13:26 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
9)	o-Terphenyl	13.57	492675	22.375	mg/L
11)	Chlorooctadecane	14.45	360379	21.177	mg/L m

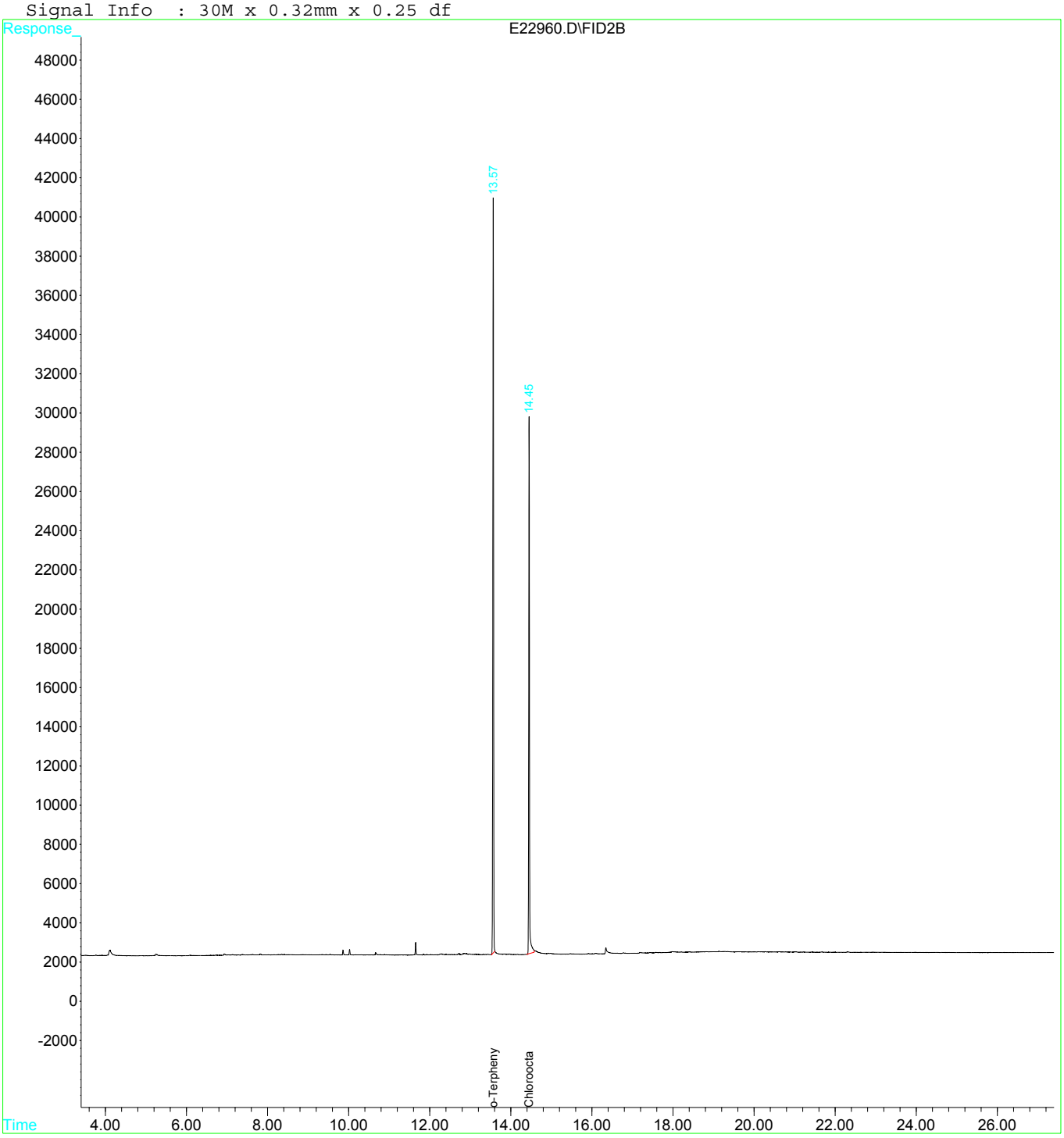
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E22960.D ALIP1106.M Tue Oct 16 10:11:51 2018 SS

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181012\E22960.D Vial: 2
Acq On : 12 Oct 2018 11:28 am Operator: BW
Sample : 8100452-09 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 12 13:26 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client: **Peak Environmental**
Client Sample ID: **STP-3B**
Lab Sample ID: **8100452-10**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:40	Prep Date:	10/11/18 08:17	File ID:	E22961.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/12/18 12:03
Dilution:	1	Matrix:	Soil	Sequence:	S8J1601
Percent Solids:	91.53	Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NJDEP-EPH2	Total EPH	ND	10.9	21.9	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181012\E22961.D Vial: 3
Acq On : 12 Oct 2018 12:03 pm Operator: BW
Sample : 8100452-10 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 12 13:27 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
9)	o-Terphenyl	13.57	538206	24.442	mg/L	
11)	Chlorooctadecane	14.45	372031	21.861	mg/L	m

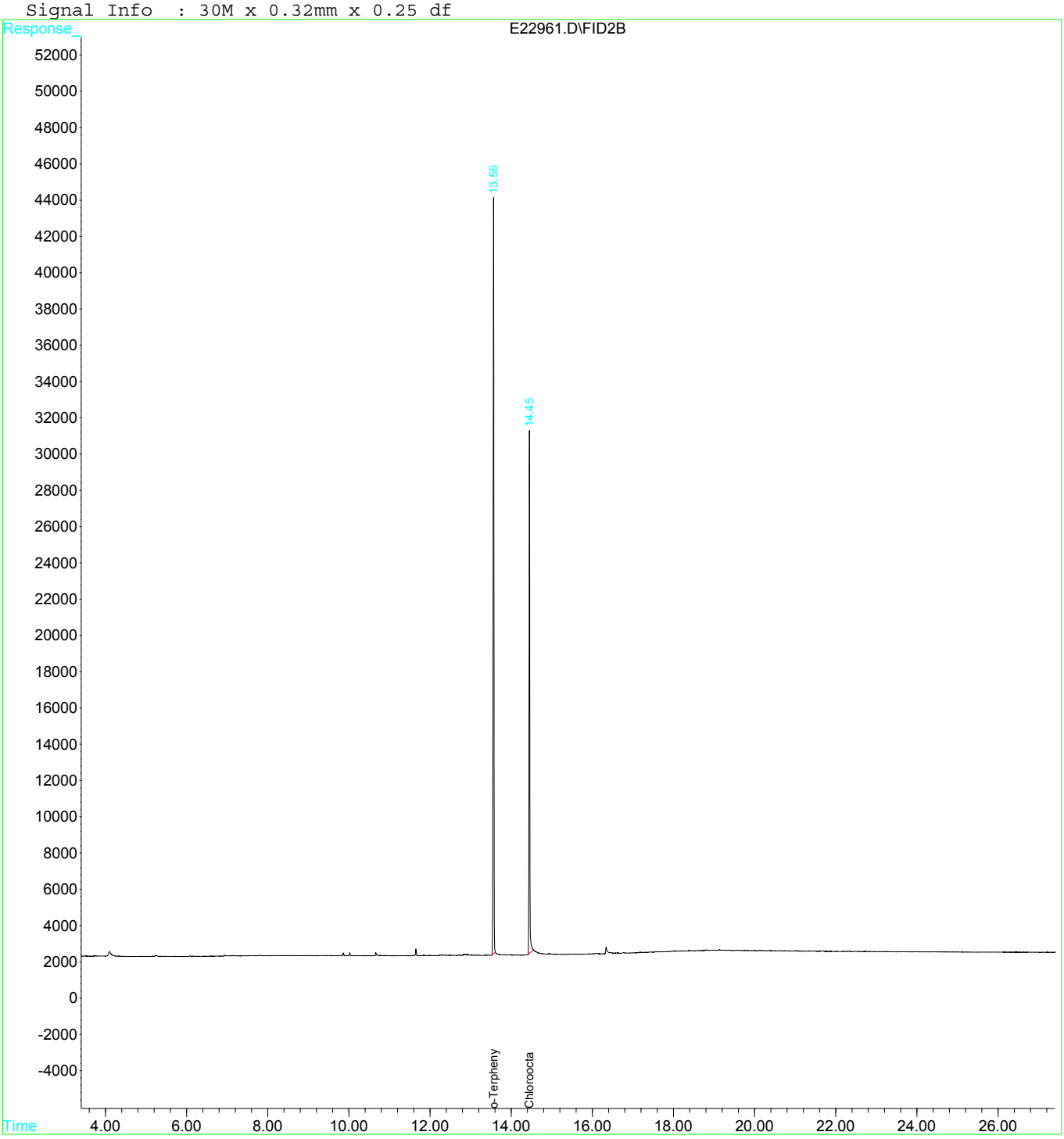
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E22961.D ALIP1106.M Tue Oct 16 10:11:54 2018 SS Page 1

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181012\E22961.D Vial: 3
Acq On : 12 Oct 2018 12:03 pm Operator: BW
Sample : 8100452-10 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 12 13:27 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client: **Peak Environmental**
Client Sample ID: **STP-4A**
Lab Sample ID: **8100452-11**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:17	File ID:	E22962.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/12/18 12:38
Dilution:	1	Matrix:	Soil	Sequence:	S8J1601
Percent Solids:	90.63	Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NJDEP-EPH2	Total EPH	ND	11.0	22.1	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181012\E22962.D Vial: 4
Acq On : 12 Oct 2018 12:38 pm Operator: BW
Sample : 8100452-11 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 12 13:27 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc	Units
Target Compounds					
9)	o-Terphenyl	13.56	556782	25.286	mg/L
11)	Chlorooctadecane	14.45	381375	22.410	mg/L

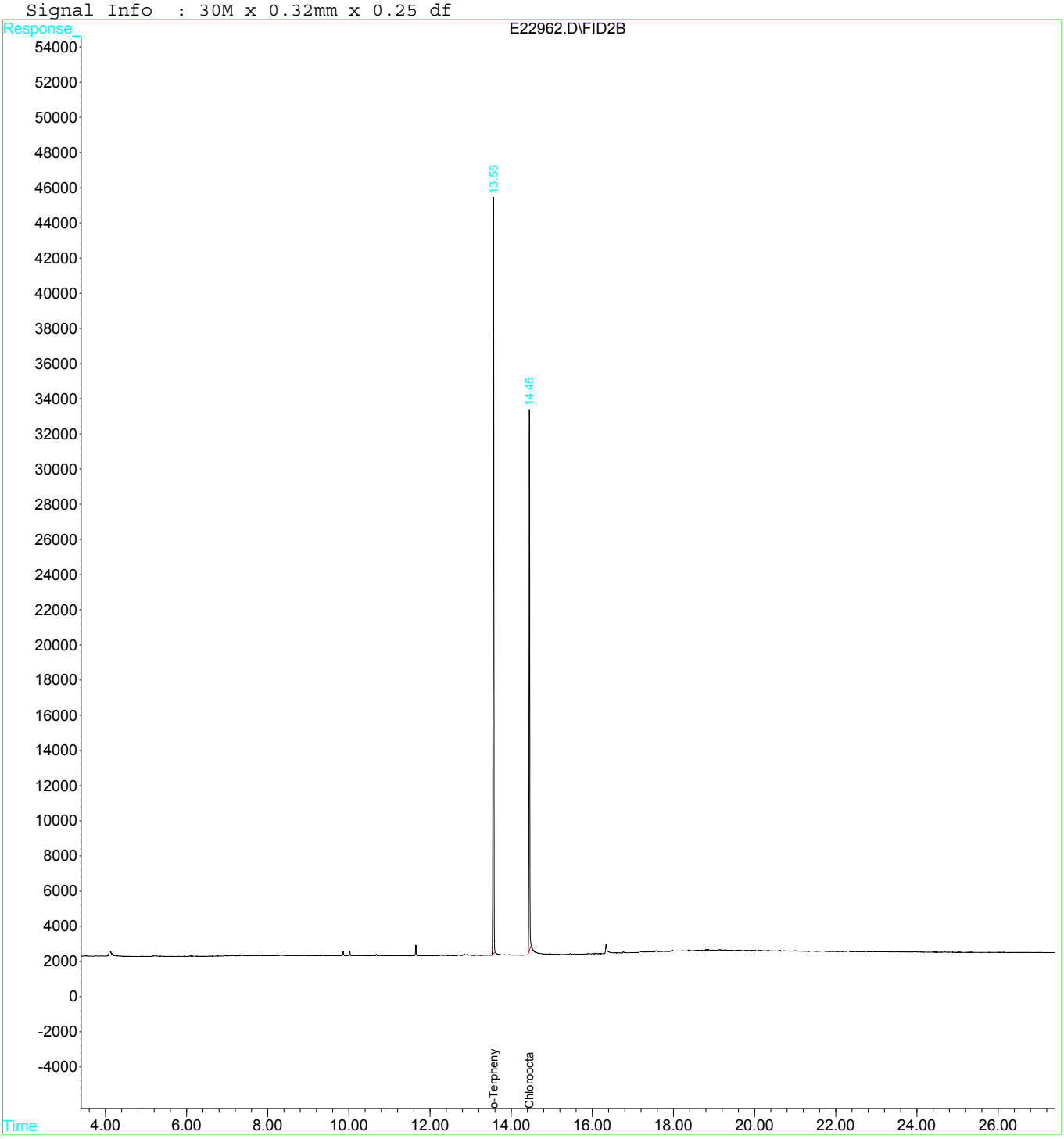
(f)=RT Delta > 1/2 Window (m)=manual int.
E22962.D ALIP1106.M Tue Oct 16 10:11:57 2018 SS Page 1

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181012\E22962.D Vial: 4
Acq On : 12 Oct 2018 12:38 pm Operator: BW
Sample : 8100452-11 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 12 13:27 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client: **Peak Environmental**
Client Sample ID: **STP-4B**
Lab Sample ID: **8100452-12**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:17	File ID:	E22963.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/12/18 13:13
Dilution:	1	Matrix:	Soil	Sequence:	S8J1601
Percent Solids:	91.70	Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NJDEP-EPH2	Total EPH	ND	10.9	21.8	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181012\E22963.D Vial: 5
Acq On : 12 Oct 2018 1:13 pm Operator: BW
Sample : 8100452-12 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 12 13:54 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc	Units
Target Compounds					
9)	o-Terphenyl	13.56	542074	24.618	mg/L
11)	Chlorooctadecane	14.45	375904	22.089	mg/L

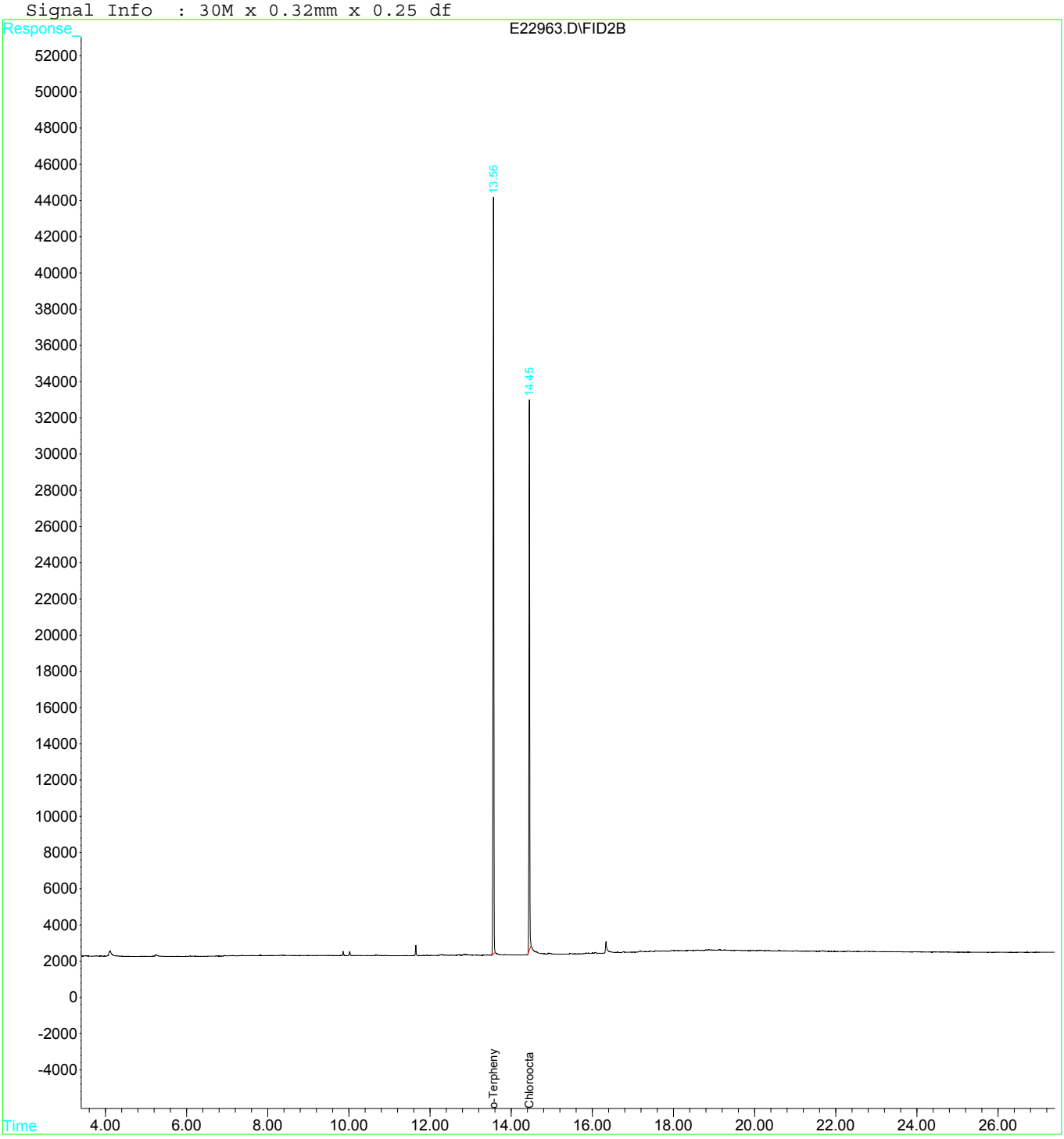
(f)=RT Delta > 1/2 Window (m)=manual int.
E22963.D ALIP1106.M Tue Oct 16 10:11:59 2018 SS

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181012\E22963.D Vial: 5
Acq On : 12 Oct 2018 1:13 pm Operator: BW
Sample : 8100452-12 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 12 13:54 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client: **Peak Environmental**
Client Sample ID: **STP-5**
Lab Sample ID: **8100452-13**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:17	File ID:	E22966.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/12/18 15:07
Dilution:	1	Matrix:	Soil	Sequence:	S8J1601
Percent Solids:	92.63	Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NJDEP-EPH2	Total EPH	ND	10.8	21.6	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181012\E22966.D Vial: 9
Acq On : 12 Oct 2018 3:07 pm Operator: BW
Sample : 8100452-13 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 12 16:01 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
9)	o-Terphenyl	13.56	533738	24.239	mg/L	
11)	Chlorooctadecane	14.45f	378388	22.235	mg/L	m

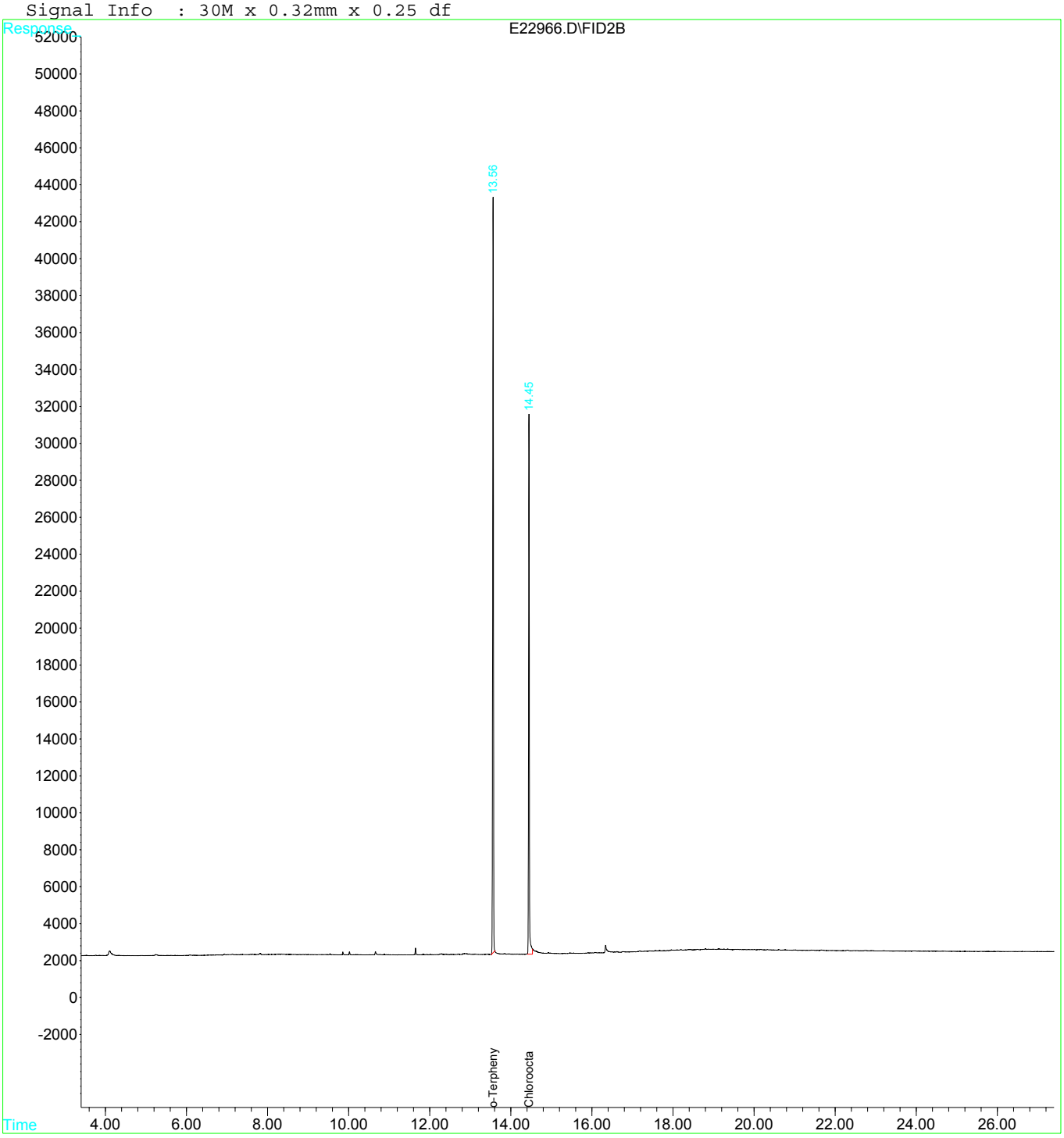
(f)=RT Delta > 1/2 Window (m)=manual int.
E22966.D ALIP1106.M Tue Oct 16 10:12:01 2018 SS

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181012\E22966.D Vial: 9
Acq On : 12 Oct 2018 3:07 pm Operator: BW
Sample : 8100452-13 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 12 16:01 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client: **Peak Environmental**
Client Sample ID: **STP-7**
Lab Sample ID: **8100452-14**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:17	File ID:	E22967.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/12/18 15:42
Dilution:	1	Matrix:	Soil	Sequence:	S8J1601
Percent Solids:	92.94	Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NJDEP-EPH2	Total EPH	ND	10.8	21.5	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181012\E22967.D Vial: 10
Acq On : 12 Oct 2018 3:42 pm Operator: BW
Sample : 8100452-14 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 16 10:11 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc Units
Target Compounds				
9)	o-Terphenyl	13.56	565545	25.684 mg/L
11)	Chlorooctadecane	14.45f	384500	22.594 mg/L

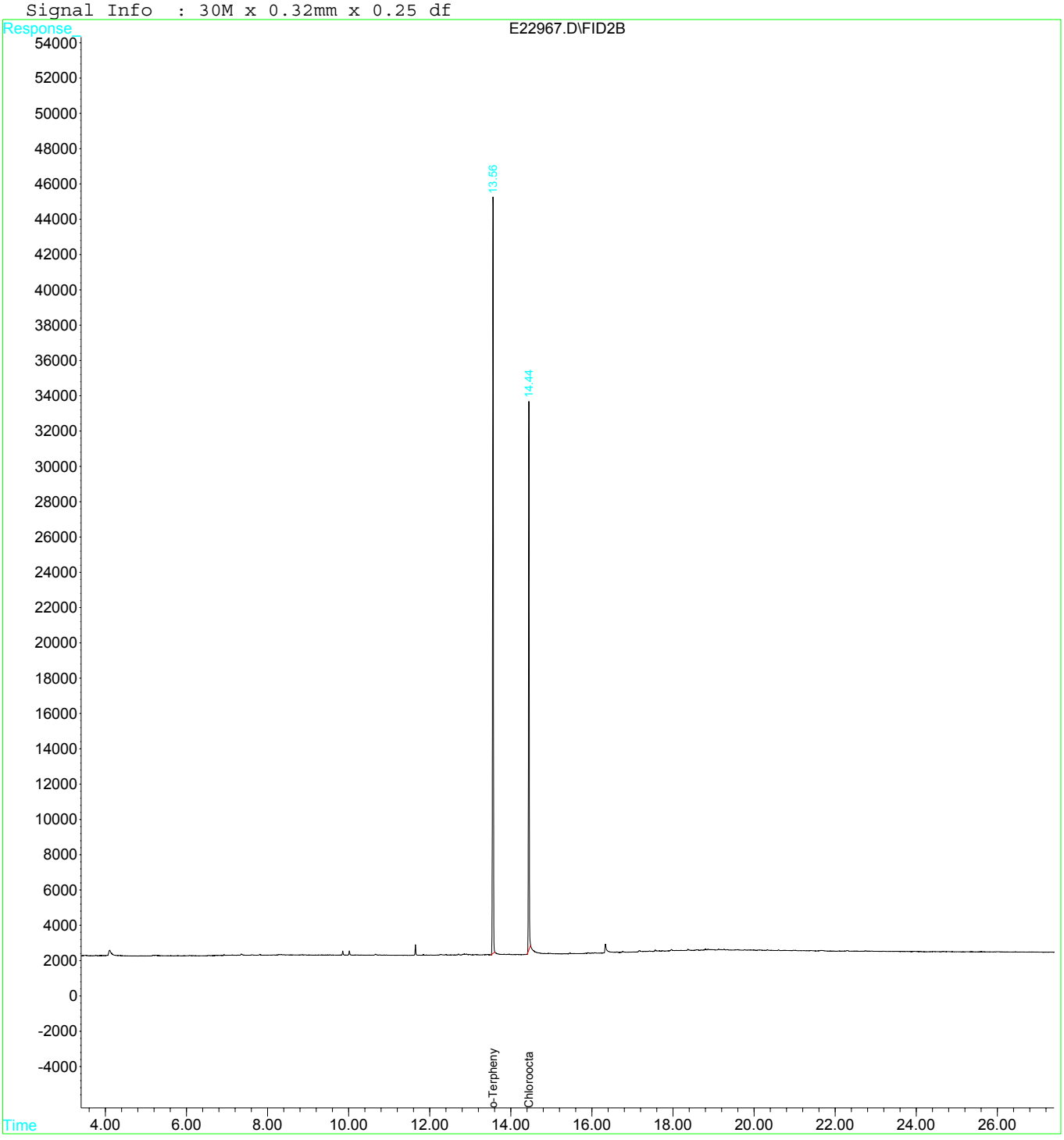
(f)=RT Delta > 1/2 Window (m)=manual int.
E22967.D ALIP1106.M Tue Oct 16 10:12:04 2018 SS Page 1

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181012\E22967.D Vial: 10
Acq On : 12 Oct 2018 3:42 pm Operator: BW
Sample : 8100452-14 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 16 10:11 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



SURROGATE RECOVERIES

Analysis Class: GC

Matrix: Soil **Method:** NJDEP-EPH-CAT2

EPH Category 2

Lab Number	File ID	1-COD	O-TPL
8100452-01	E22935.D	49.0	52.2
8100452-02	E22936.D	53.7	55.6
8100452-03	E22937.D	52.4	54.4
8100452-04	E22938.D	48.7	51.7
8100452-05	E22939.D	49.6	51.9
8100452-06	E22940.D	44.6	47.3
8100452-07	E22941.D	47.0	49.7
8100452-08	E22942.D	48.2	50.3
8100452-09	E22960.D	42.4	44.7
8100452-10	E22961.D	43.7	48.9
8100452-11	E22962.D	44.8	50.6
8100452-12	E22963.D	44.2	49.2
8100452-13	E22966.D	44.5	48.5
8100452-14	E22967.D	45.2	51.4

Surrogate Limits		Lo Limit	Hi Limit
1-COD	1-Chlorooctadecane	40	121
O-TPL	o-Terphenyl	42.2	113

F-II

* - Outside of QC Limits

Extractable Petroleum Hydrocarbons Category 2 - Quality Control

Aqua Pro-Tech Laboratories

Batch B8J1103 **Method: NJDEP-EPH-CAT2** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1103-BS1		Total EPH	187	mg/kg wet	360		52.0	40-140		

Batch B8J1103 (cont.) **Method: NJDEP-EPH-CAT2** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1103-DUP1	8100452-01	Total EPH	57.4	mg/kg dry		62.8			9.04	200

Batch B8J1103 (cont.) **Method: NJDEP-EPH-CAT2** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1103-MS1	8100452-01	Total EPH	282	mg/kg dry	400	62.8	54.7	40-140		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

METHOD BLANK SUMMARY

Batch ID: **B8J1103**

Lab Number	Sample Id	Extraction Date	Analysis Date
B8J1103-BLK1	BLK1	10/11/2018	10/11/2018 21:15
B8J1103-BS1	BS1	10/11/2018	10/11/2018 21:49
B8J1103-DUP1	DUP1	10/11/2018	10/11/2018 22:59
B8J1103-MS1	MS1	10/11/2018	10/11/2018 22:24
8100452-01	NTP-1A	10/11/2018	10/11/2018 12:51
8100452-02	NTP-2A	10/11/2018	10/11/2018 13:27
8100452-03	NTP-2B	10/11/2018	10/11/2018 14:02
8100452-04	NTP-3B	10/11/2018	10/11/2018 14:37
8100452-05	NTP-4B	10/11/2018	10/11/2018 15:25
8100452-06	NTP-6	10/11/2018	10/11/2018 16:00
8100452-07	NTP-7	10/11/2018	10/11/2018 16:35
8100452-08	STP-1B	10/11/2018	10/11/2018 17:10
8100452-09	STP-2B	10/11/2018	10/12/2018 11:28
8100452-10	STP-3B	10/11/2018	10/12/2018 12:03
8100452-11	STP-4A	10/11/2018	10/12/2018 12:38
8100452-12	STP-4B	10/11/2018	10/12/2018 13:13
8100452-13	STP-5	10/11/2018	10/12/2018 15:07
8100452-14	STP-7	10/11/2018	10/12/2018 15:42

Response Factor Report GCFID-3

Method : G:\HPCHEM\GCFID3\METHODS\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Nov 07 08:45:46 2017

Calibration Files
25 =E18801.D 50 =E18802.D 100 =E18803.D
200 =E18804.D 300 =E18805.D

	Compound	25	50	100	200	300	Avg		%RSD
1)	n-Nonane	1.957	2.055	2.017	2.283	2.256	2.114	E4	6.94
2)	n-Decane	1.929	1.969	1.798	2.291	2.259	2.049	E4	10.54
3)	n-Dodecane	1.690	1.727	1.855	2.306	2.225	1.961	E4	14.60
4)	C9-C12 Aliphatics	2.023	2.043	2.218	2.527	2.321	2.227	E4	9.38
5)	n-Tetradecane	1.683	1.730	1.841	2.294	2.211	1.952	E4	14.46
6)	n-Hexadecane	1.821	1.878	1.858	2.302	2.218	2.015	E4	11.22
7)	C12-C16 Aliphatics	2.015	2.041	2.102	2.407	2.297	2.172	E4	7.89
8)	n-Octadecane	1.848	1.890	1.870	2.307	2.229	2.029	E4	10.86
9)	o-Terphenyl	1.798	2.197	1.987	2.584	2.444	2.202	E4	14.60
10)	n-Eicosane	1.881	1.907	1.868	2.219	2.124	2.000	E4	8.03
11)	Chlorooctadecane	1.416	1.739	1.587	2.040	1.727	1.702	E4	13.50
12)	n-Heneicosane	2.001	2.034	2.002	2.276	1.967	2.056	E4	6.10
13)	C16-C21 Aliphatics	3.497	3.330	2.626	2.816	2.548	2.963	E4	14.39
14)	n-Docosane	1.851	1.875	1.832	2.163	1.983	1.941	E4	7.07
15)	n-Tetracosane	1.833	1.859	1.820	2.156	1.982	1.930	E4	7.33
16)	n-Hexacosane	1.833	1.863	1.826	2.181	2.019	1.944	E4	7.91
17)	n-Octacosane	1.846	1.850	1.812	2.178	2.044	1.946	E4	8.13
18)	n-Triacontane	1.826	1.853	1.818	2.203	2.087	1.957	E4	9.02
19)	n-Dotriacontane	1.836	1.859	1.825	2.233	2.113	1.973	E4	9.51
20)	n-Tetratricontane	1.877	1.900	1.867	2.292	2.173	2.022	E4	9.75
21)	n-Hexatriacontane	1.836	1.857	1.829	2.255	2.095	1.974	E4	9.71
22)	n-Octatriacontane	1.839	1.864	1.843	2.265	2.020	1.966	E4	9.30
23)	n-Tetracontane	1.786	1.836	1.821	2.182	1.419	1.809	E4	14.96
24)	C21-C40 Aliphatics	2.496	2.289	1.945	2.376	2.100	2.241	E4	9.80
25)	Total EPH	2.859	2.582	1.981	2.421	2.415	2.452	E4	13.01

(#) = Out of Range

Compound List Report GCFID-3

Method : G:\HPCHEM\GCFID3\METHODS\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Nov 07 08:45:46 2017
Response via : Initial Calibration
Total Cpnds : 25

PK#	Type	Compound Name	Exp RT	Rel RT	Cal	A/H	ID
1		n-Nonane	3.85	1.000	A	A	B
2		n-Decane	5.53	1.000	A	A	B
3		n-Dodecane	8.32	1.000	A	A	B
4		C9-C12 Aliphatics	5.90	1.000	A	A	B
5		n-Tetradecane	10.15	1.000	A	A	B
6		n-Hexadecane	11.59	1.000	A	A	B
7		C12-C16 Aliphatics	10.60	1.000	A	A	B
8		n-Octadecane	12.84	1.000	A	A	B
9		o-Terphenyl	13.54	1.000	A	A	B
10		n-Eicosane	13.95	1.000	A	A	B
11		Chlorooctadecane	14.43	1.000	A	A	B
12		n-Heneicosane	14.47	1.000	A	A	B
13		C16-C21 Aliphatics	12.30	1.000	A	A	B
14		n-Docosane	14.96	1.000	A	A	B
15		n-Tetracosane	15.89	1.000	A	A	B
16		n-Hexacosane	16.76	1.000	A	A	B
17		n-Octacosane	17.56	1.000	A	A	B
18		n-Triacontane	18.36	1.000	A	A	B
19		n-Dotriacontane	19.26	1.000	A	A	B
20		n-Tetratricontane	20.33	1.000	A	A	B
21		n-Hexatriacontane	21.70	1.000	A	A	B
22		n-Octatriacontane	23.51	1.000	A	A	B
23		n-Tetracontane	25.99	1.000	A	A	B
24		C21-C40 Aliphatics	19.60	1.000	A	A	B
25		Total EPH	15.20	1.000	A	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

ALIP1106.M Tue Nov 07 10:35:18 2017 SS

CALIBRATION VERIFICATION SUMMARY

Client: **Peak Environmental**
Work Order: **8100452**

Lab Sample ID (Aliph):	S8J1218-CCV1	Init. Calib. Date(s):	11/06/2017
File ID:	E22933.D	Date Analyzed:	10/11/2018 12:11
EPH Category 2		Matrix:	Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Total EPH	12.88	-----	-----	22962	19581	14.70
					Average %D:	14.70

10 10.7.

* - Outside of QC limits

F-VII

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22933.D Vial: 1
Acq On : 11 Oct 2018 12:11 pm Operator: BW
Sample : SEQ-CCV Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 16:21 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc	Units	
	Target Compounds					
1)	n-Nonane	3.90	1735111	82.091	mg/L	m
2)	n-Decane	5.60	1538775	75.089	mg/L	
3)	n-Dodecane	8.37	1583399	80.754	mg/L	
5)	n-Tetradecane	10.20	1554474	79.645	mg/L	
6)	n-Hexadecane	11.64	1579341	78.366	mg/L	
8)	n-Octadecane	12.88	1627710	80.234	mg/L	
10)	n-Eicosane	13.99	1666390	83.332	mg/L	
12)	n-Heneicosane	14.51f	1816201	88.338	mg/L	
14)	n-Docosane	15.00	1652657	85.163	mg/L	
15)	n-Tetracosane	15.93	1656270	85.813	mg/L	
16)	n-Hexacosane	16.79	1669737	85.874	mg/L	
17)	n-Octacosane	17.59	1659367	85.264	mg/L	
18)	n-Triacontane	18.41	1657746	84.696	mg/L	
19)	n-Dotriacontane	19.31	1649178	83.572	mg/L	
20)	n-Tetratricontane	20.40	1652674	81.743	mg/L	
21)	n-Hexatriacontane	21.79	1542321	78.123	mg/L	
22)	n-Octatriacontane	23.64	1405688	71.496	mg/L	
23)	n-Tetracontane	26.16f	1161287	64.208	mg/L	
25)	Total EPH	12.88	35245779	1437.583	mg/L	m

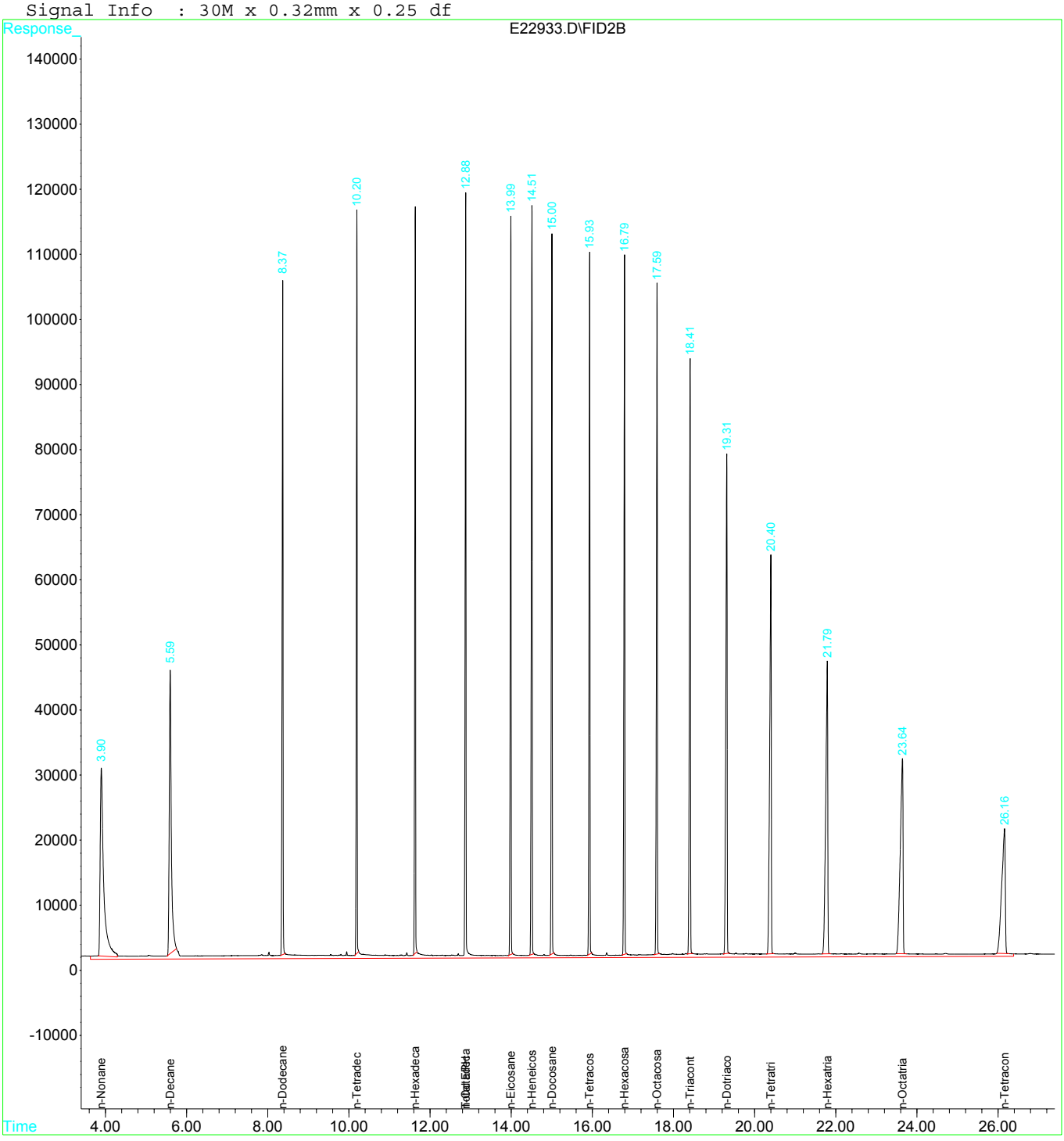
(f)=RT Delta > 1/2 Window (m)=manual int.
E22933.D ALIP1106.M Fri Oct 12 16:06:21 2018 SS Page 1

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22933.D Vial: 1
Acq On : 11 Oct 2018 12:11 pm Operator: BW
Sample : SEQ-CCV Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 16:21 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



E22933.D ALIP1106.M Fri Oct 12 16:06:22 2018 SS Page 2

MERCURY

Peak Environmental

Work Order: 8100452

Project: Ridgewood

ANALYSIS DATA SHEET

Mercury

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452

Total Metals - Soil (SW 846 7471B)

Lab Number	Analyte	Extract	Concentration	Units	RL	DF	Analyst	Analyzed
B8J1110-BLK1	Mercury	0.6 g / 50 mL	ND	mg/kg wet	0.0416	1	AS	10/11/2018 12:01
S8J1108-CCB1	Mercury	N/A	ND	ug/L	0.499	1	AS	10/11/2018 12:36
S8J1108-CCB2	Mercury	N/A	ND	ug/L	0.499	1	AS	10/11/2018 13:18
S8J1108-ICB1	Mercury	N/A	ND	ug/L	0.499	1	AS	10/11/2018 11:55

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Mercury

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452

Total Metals - Soil (SW 846 7471B)

Lab Number	Analyte	Extract	Concentration	Units	RL	DF	Analyst	Analyzed
8100452-01	Mercury	0.51 / 50	ND	mg/kg dry	0.0544	1	AS	10/11/18 12:17
8100452-02	Mercury	0.58 / 50	ND	mg/kg dry	0.0465	1	AS	10/11/18 12:20
8100452-03	Mercury	0.53 / 50	ND	mg/kg dry	0.0510	1	AS	10/11/18 12:24
8100452-04	Mercury	0.55 / 50	ND	mg/kg dry	0.0497	1	AS	10/11/18 12:27
8100452-05	Mercury	0.54 / 50	ND	mg/kg dry	0.0502	1	AS	10/11/18 12:40
8100452-06	Mercury	0.56 / 50	ND	mg/kg dry	0.0508	1	AS	10/11/18 12:04
8100452-07	Mercury	0.57 / 50	ND	mg/kg dry	0.0479	1	AS	10/11/18 12:43
8100452-08	Mercury	0.61 / 50	ND	mg/kg dry	0.0457	1	AS	10/11/18 12:46
8100452-09	Mercury	0.53 / 50	ND	mg/kg dry	0.0514	1	AS	10/11/18 12:49
8100452-10	Mercury	0.57 / 50	0.0562	mg/kg dry	0.0478	1	AS	10/11/18 12:53
8100452-11	Mercury	0.51 / 50	ND	mg/kg dry	0.0540	1	AS	10/11/18 12:56
8100452-12	Mercury	0.55 / 50	ND	mg/kg dry	0.0495	1	AS	10/11/18 12:59
8100452-13	Mercury	0.52 / 50	ND	mg/kg dry	0.0518	1	AS	10/11/18 13:02
8100452-14	Mercury	0.58 / 50	ND	mg/kg dry	0.0463	1	AS	10/11/18 13:05

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

Batch B8J1110 **Method: SW 846 7471B** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1110-BS1		Mercury	0.833	mg/kg wet	0.833		100	80-120		

Batch B8J1110 (cont.) **Method: SW 846 7471B** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1110-DUP1	8100452-06	Mercury	ND	mg/kg dry		ND				20

Batch B8J1110 (cont.) **Method: SW 846 7471B** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1110-MS1	8100452-06	Mercury	1.06	mg/kg dry	1.02	ND	104	80-120		

Batch B8J1110 (cont.) **Method: SW 846 7471B** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1110-MSD1	8100452-06	Mercury	1.07	mg/kg dry	1.02	ND	105	80-120	0.819	20

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

F-III NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

METHOD BLANK SUMMARY

Batch ID: **B8J1110**

Lab Number	Sample Id	Extraction Date	Analysis Date
B8J1110-BLK1	BLK1	10/11/2018	10/11/2018 12:01
B8J1110-BS1	BS1	10/11/2018	10/11/2018 11:58
B8J1110-DUP1	DUP1	10/11/2018	10/11/2018 12:07
B8J1110-MS1	MS1	10/11/2018	10/11/2018 12:11
B8J1110-MSD1	MSD1	10/11/2018	10/11/2018 12:14
8100452-01	NTP-1A	10/11/2018	10/11/2018 12:17
8100452-02	NTP-2A	10/11/2018	10/11/2018 12:20
8100452-03	NTP-2B	10/11/2018	10/11/2018 12:24
8100452-04	NTP-3B	10/11/2018	10/11/2018 12:27
8100452-05	NTP-4B	10/11/2018	10/11/2018 12:40
8100452-06	NTP-6	10/11/2018	10/11/2018 12:04
8100452-07	NTP-7	10/11/2018	10/11/2018 12:43
8100452-08	STP-1B	10/11/2018	10/11/2018 12:46
8100452-09	STP-2B	10/11/2018	10/11/2018 12:49
8100452-10	STP-3B	10/11/2018	10/11/2018 12:53
8100452-11	STP-4A	10/11/2018	10/11/2018 12:56
8100452-12	STP-4B	10/11/2018	10/11/2018 12:59
8100452-13	STP-5	10/11/2018	10/11/2018 13:02
8100452-14	STP-7	10/11/2018	10/11/2018 13:05

ANALYSIS SEQUENCE SUMMARY

Laboratory:	Aqua Pro-Tech Laboratories	Work Order:	8100452
Client:	Peak Environmental	Project:	Ridgewood
Sequence:	S8J1108	Instrument:	Mercury Analyzer

Sample Name	Lab Sample ID	FileID	Analysis Date/Time
Initial Cal Check	S8J1108-ICV1	2018-10-11-A.csv-012	10/11/18 11:51
Initial Cal Blank	S8J1108-ICB1	2018-10-11-A.csv-013	10/11/18 11:55
LCS	B8J1110-BS1	2018-10-11-A.csv-014	10/11/18 11:58
Blank	B8J1110-BLK1	2018-10-11-A.csv-015	10/11/18 12:01
NTP-6	8100452-06	2018-10-11-A.csv-016	10/11/18 12:04
Duplicate	B8J1110-DUP1	2018-10-11-A.csv-017	10/11/18 12:07
Matrix Spike	B8J1110-MS1	2018-10-11-A.csv-018	10/11/18 12:11
Matrix Spike Dup	B8J1110-MSD1	2018-10-11-A.csv-019	10/11/18 12:14
NTP-1A	8100452-01	2018-10-11-A.csv-020	10/11/18 12:17
NTP-2A	8100452-02	2018-10-11-A.csv-021	10/11/18 12:20
NTP-2B	8100452-03	2018-10-11-A.csv-022	10/11/18 12:24
NTP-3B	8100452-04	2018-10-11-A.csv-023	10/11/18 12:27
Calibration Check	S8J1108-CCV1	2018-10-11-A.csv-025	10/11/18 12:33
Calibration Blank	S8J1108-CCB1	2018-10-11-A.csv-026	10/11/18 12:36
NTP-4B	8100452-05	2018-10-11-A.csv-027	10/11/18 12:40
NTP-7	8100452-07	2018-10-11-A.csv-028	10/11/18 12:43
STP-1B	8100452-08	2018-10-11-A.csv-029	10/11/18 12:46
STP-2B	8100452-09	2018-10-11-A.csv-030	10/11/18 12:49
STP-3B	8100452-10	2018-10-11-A.csv-031	10/11/18 12:53
STP-4A	8100452-11	2018-10-11-A.csv-032	10/11/18 12:56
STP-4B	8100452-12	2018-10-11-A.csv-033	10/11/18 12:59
STP-5	8100452-13	2018-10-11-A.csv-034	10/11/18 13:02
STP-7	8100452-14	2018-10-11-A.csv-035	10/11/18 13:05
Calibration Check	S8J1108-CCV2	2018-10-11-A.csv-038	10/11/18 13:15
Calibration Blank	S8J1108-CCB2	2018-10-11-A.csv-039	10/11/18 13:18

SEQUENCE CALIBRATION CHECKS

SW 846 7471B

Client: **Peak Environmental**
Project: **Ridgewood**
Work Order: **8100452**

Sequence: S8J1108
Instrument: Mercury Analyzer

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S8J1108-ICV1	Mercury	10.0	10.6	106	ug/L	90-110
S8J1108-CCV1	Mercury	10.0	10.2	102	ug/L	80-120
S8J1108-CCV2	Mercury	10.0	10.3	103	ug/L	80-120

ICV = Initial Cal Verification CCV = Continuing Cal Verification IFB = Interference Check Standard B

METALS

Peak Environmental

Work Order: 8100452

Project: Ridgewood

ANALYSIS DATA SHEET

Client: Peak Environmental
Client Sample ID: Blank
Lab Sample ID: B8J1105-BLK1
Project: Ridgewood
Work Order: 8100452

Init/Final Vol:	2 g / 50 mL	Prep Date:	10/11/2018 9:33:00AM
Matrix:	Soil	Prep Method:	Hot Block ICP Soil

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/2018 17:57	ND	mg/kg wet	2.50	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/2018 17:57	ND	mg/kg wet	1.25	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/2018 17:57	ND	mg/kg wet	1.25	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/2018 17:57	ND	mg/kg wet	0.500	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/2018 17:57	ND	mg/kg wet	0.0250	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/2018 17:57	ND	mg/kg wet	0.250	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/2018 17:57	ND	mg/kg wet	25.0	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/2018 17:57	ND	mg/kg wet	0.250	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/2018 17:57	ND	mg/kg wet	0.200	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/2018 17:57	ND	mg/kg wet	0.250	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/2018 17:57	ND	mg/kg wet	5.00	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/2018 17:57	ND	mg/kg wet	1.25	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/2018 17:57	ND	mg/kg wet	50.0	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/2018 17:57	ND	mg/kg wet	0.250	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/2018 17:57	ND	mg/kg wet	0.125	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/2018 17:57	ND	mg/kg wet	100	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/2018 17:57	ND	mg/kg wet	1.25	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/2018 17:57	ND	mg/kg wet	0.500	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/2018 17:57	ND	mg/kg wet	50.0	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/2018 17:57	ND	mg/kg wet	1.25	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/2018 17:57	ND	mg/kg wet	0.500	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/2018 17:57	ND	mg/kg wet	0.750	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Client: Peak Environmental
Client Sample ID: Calibration Blank
Lab Sample ID: S8J1112-CCB1
Project: Ridgewood
Work Order: 8100452

Init/Final Vol:	N/A	Prep Date:	10/11/2018 9:00:57AM
Matrix:	Soil	Prep Method:	

Total Metals - Aqueous (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/2018 14:58	ND	mg/L	0.100	1	MS	S8J1112/S8J1112
7440-36-0	Antimony	10/11/2018 14:58	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-38-2	Arsenic	10/11/2018 14:58	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-39-3	Barium	10/11/2018 14:58	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-41-7	Beryllium	10/11/2018 14:58	ND	mg/L	0.00100	1	MS	S8J1112/S8J1112
7440-43-9	Cadmium	10/11/2018 14:58	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-70-2	Calcium	10/11/2018 14:58	ND	mg/L	1.00	1	MS	S8J1112/S8J1112
7440-47-3	Chromium	10/11/2018 14:58	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-48-4	Cobalt	10/11/2018 14:58	ND	mg/L	0.00800	1	MS	S8J1112/S8J1112
7440-50-8	Copper	10/11/2018 14:58	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7439-89-6	Iron	10/11/2018 14:58	ND	mg/L	0.200	1	MS	S8J1112/S8J1112
7439-92-1	Lead	10/11/2018 14:58	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7439-95-4	Magnesium	10/11/2018 14:58	ND	mg/L	2.00	1	MS	S8J1112/S8J1112
7439-96-5	Manganese	10/11/2018 14:58	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-02-0	Nickel	10/11/2018 14:58	ND	mg/L	0.00500	1	MS	S8J1112/S8J1112
7440-09-7	Potassium	10/11/2018 14:58	ND	mg/L	4.00	1	MS	S8J1112/S8J1112
7782-49-2	Selenium	10/11/2018 14:58	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-22-4	Silver	10/11/2018 14:58	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-23-5	Sodium	10/11/2018 14:58	ND	mg/L	2.00	1	MS	S8J1112/S8J1112
7440-28-0	Thallium	10/11/2018 14:58	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-62-2	Vanadium	10/11/2018 14:58	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-66-6	Zinc	10/11/2018 14:58	ND	mg/L	0.0300	1	MS	S8J1112/S8J1112

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Client: Peak Environmental
Client Sample ID: Calibration Blank
Lab Sample ID: S8J1112-CCB2
Project: Ridgewood
Work Order: 8100452

Init/Final Vol:	N/A	Prep Date:	10/11/2018 9:00:57AM
Matrix:	Soil	Prep Method:	

Total Metals - Aqueous (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/2018 15:47	ND	mg/L	0.100	1	MS	S8J1112/S8J1112
7440-36-0	Antimony	10/11/2018 15:47	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-38-2	Arsenic	10/11/2018 15:47	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-39-3	Barium	10/11/2018 15:47	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-41-7	Beryllium	10/11/2018 15:47	ND	mg/L	0.00100	1	MS	S8J1112/S8J1112
7440-43-9	Cadmium	10/11/2018 15:47	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-70-2	Calcium	10/11/2018 15:47	ND	mg/L	1.00	1	MS	S8J1112/S8J1112
7440-47-3	Chromium	10/11/2018 15:47	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-48-4	Cobalt	10/11/2018 15:47	ND	mg/L	0.00800	1	MS	S8J1112/S8J1112
7440-50-8	Copper	10/11/2018 15:47	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7439-89-6	Iron	10/11/2018 15:47	ND	mg/L	0.200	1	MS	S8J1112/S8J1112
7439-92-1	Lead	10/11/2018 15:47	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7439-95-4	Magnesium	10/11/2018 15:47	ND	mg/L	2.00	1	MS	S8J1112/S8J1112
7439-96-5	Manganese	10/11/2018 15:47	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-02-0	Nickel	10/11/2018 15:47	ND	mg/L	0.00500	1	MS	S8J1112/S8J1112
7440-09-7	Potassium	10/11/2018 15:47	ND	mg/L	4.00	1	MS	S8J1112/S8J1112
7782-49-2	Selenium	10/11/2018 15:47	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-22-4	Silver	10/11/2018 15:47	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-23-5	Sodium	10/11/2018 15:47	ND	mg/L	2.00	1	MS	S8J1112/S8J1112
7440-28-0	Thallium	10/11/2018 15:47	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-62-2	Vanadium	10/11/2018 15:47	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-66-6	Zinc	10/11/2018 15:47	ND	mg/L	0.0300	1	MS	S8J1112/S8J1112

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Client: Peak Environmental
Client Sample ID: Calibration Blank
Lab Sample ID: S8J1112-CCB3
Project: Ridgewood
Work Order: 8100452

Init/Final Vol:	N/A	Prep Date:	10/11/2018 9:00:57AM
Matrix:	Soil	Prep Method:	

Total Metals - Aqueous (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/2018 16:30	ND	mg/L	0.100	1	MS	S8J1112/S8J1112
7440-36-0	Antimony	10/11/2018 16:30	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-38-2	Arsenic	10/11/2018 16:30	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-39-3	Barium	10/11/2018 16:30	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-41-7	Beryllium	10/11/2018 16:30	ND	mg/L	0.00100	1	MS	S8J1112/S8J1112
7440-43-9	Cadmium	10/11/2018 16:30	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-70-2	Calcium	10/11/2018 16:30	ND	mg/L	1.00	1	MS	S8J1112/S8J1112
7440-47-3	Chromium	10/11/2018 16:30	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-48-4	Cobalt	10/11/2018 16:30	ND	mg/L	0.00800	1	MS	S8J1112/S8J1112
7440-50-8	Copper	10/11/2018 16:30	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7439-89-6	Iron	10/11/2018 16:30	ND	mg/L	0.200	1	MS	S8J1112/S8J1112
7439-92-1	Lead	10/11/2018 16:30	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7439-95-4	Magnesium	10/11/2018 16:30	ND	mg/L	2.00	1	MS	S8J1112/S8J1112
7439-96-5	Manganese	10/11/2018 16:30	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-02-0	Nickel	10/11/2018 16:30	ND	mg/L	0.00500	1	MS	S8J1112/S8J1112
7440-09-7	Potassium	10/11/2018 16:30	ND	mg/L	4.00	1	MS	S8J1112/S8J1112
7782-49-2	Selenium	10/11/2018 16:30	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-22-4	Silver	10/11/2018 16:30	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-23-5	Sodium	10/11/2018 16:30	ND	mg/L	2.00	1	MS	S8J1112/S8J1112
7440-28-0	Thallium	10/11/2018 16:30	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-62-2	Vanadium	10/11/2018 16:30	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-66-6	Zinc	10/11/2018 16:30	ND	mg/L	0.0300	1	MS	S8J1112/S8J1112

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

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ANALYSIS DATA SHEET

Client: Peak Environmental
Client Sample ID: Calibration Blank
Lab Sample ID: S8J1112-CCB4
Project: Ridgewood
Work Order: 8100452

Init/Final Vol:	N/A	Prep Date:	10/11/2018 9:00:57AM
Matrix:	Soil	Prep Method:	

Total Metals - Aqueous (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/2018 18:15	ND	mg/L	0.100	1	MS	S8J1112/S8J1112
7440-36-0	Antimony	10/11/2018 18:15	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-38-2	Arsenic	10/11/2018 18:15	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-39-3	Barium	10/11/2018 18:15	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-41-7	Beryllium	10/11/2018 18:15	ND	mg/L	0.00100	1	MS	S8J1112/S8J1112
7440-43-9	Cadmium	10/11/2018 18:15	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-70-2	Calcium	10/11/2018 18:15	ND	mg/L	1.00	1	MS	S8J1112/S8J1112
7440-47-3	Chromium	10/11/2018 18:15	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-48-4	Cobalt	10/11/2018 18:15	ND	mg/L	0.00800	1	MS	S8J1112/S8J1112
7440-50-8	Copper	10/11/2018 18:15	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7439-89-6	Iron	10/11/2018 18:15	ND	mg/L	0.200	1	MS	S8J1112/S8J1112
7439-92-1	Lead	10/11/2018 18:15	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7439-95-4	Magnesium	10/11/2018 18:15	ND	mg/L	2.00	1	MS	S8J1112/S8J1112
7439-96-5	Manganese	10/11/2018 18:15	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-02-0	Nickel	10/11/2018 18:15	ND	mg/L	0.00500	1	MS	S8J1112/S8J1112
7440-09-7	Potassium	10/11/2018 18:15	ND	mg/L	4.00	1	MS	S8J1112/S8J1112
7782-49-2	Selenium	10/11/2018 18:15	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-22-4	Silver	10/11/2018 18:15	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-23-5	Sodium	10/11/2018 18:15	ND	mg/L	2.00	1	MS	S8J1112/S8J1112
7440-28-0	Thallium	10/11/2018 18:15	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-62-2	Vanadium	10/11/2018 18:15	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-66-6	Zinc	10/11/2018 18:15	ND	mg/L	0.0300	1	MS	S8J1112/S8J1112

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

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ANALYSIS DATA SHEET

Client: Peak Environmental
Client Sample ID: Initial Cal Blank
Lab Sample ID: S8J1112-ICB1
Project: Ridgewood
Work Order: 8100452

Init/Final Vol:	N/A	Prep Date:	10/11/2018 9:00:57AM
Matrix:	Soil	Prep Method:	

Total Metals - Aqueous (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/2018 10:19	ND	mg/L	0.100	1	MS	S8J1112/S8J1112
7440-36-0	Antimony	10/11/2018 10:19	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-38-2	Arsenic	10/11/2018 10:19	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-39-3	Barium	10/11/2018 10:19	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-41-7	Beryllium	10/11/2018 10:19	ND	mg/L	0.00100	1	MS	S8J1112/S8J1112
7440-43-9	Cadmium	10/11/2018 10:19	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-70-2	Calcium	10/11/2018 10:19	ND	mg/L	1.00	1	MS	S8J1112/S8J1112
7440-47-3	Chromium	10/11/2018 10:19	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-48-4	Cobalt	10/11/2018 10:19	ND	mg/L	0.00800	1	MS	S8J1112/S8J1112
7440-50-8	Copper	10/11/2018 10:19	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7439-89-6	Iron	10/11/2018 10:19	ND	mg/L	0.200	1	MS	S8J1112/S8J1112
7439-92-1	Lead	10/11/2018 10:19	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7439-95-4	Magnesium	10/11/2018 10:19	ND	mg/L	2.00	1	MS	S8J1112/S8J1112
7439-96-5	Manganese	10/11/2018 10:19	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-02-0	Nickel	10/11/2018 10:19	ND	mg/L	0.00500	1	MS	S8J1112/S8J1112
7440-09-7	Potassium	10/11/2018 10:19	ND	mg/L	4.00	1	MS	S8J1112/S8J1112
7782-49-2	Selenium	10/11/2018 10:19	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-22-4	Silver	10/11/2018 10:19	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-23-5	Sodium	10/11/2018 10:19	ND	mg/L	2.00	1	MS	S8J1112/S8J1112
7440-28-0	Thallium	10/11/2018 10:19	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-62-2	Vanadium	10/11/2018 10:19	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-66-6	Zinc	10/11/2018 10:19	ND	mg/L	0.0300	1	MS	S8J1112/S8J1112

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Client: **Peak Environmental**
Client Sample ID: **NTP-1A**
Lab Sample ID: **8100452-01**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 09:33
Init/Final Vol:	1.98 g / 50 mL	Prep Method:	Hot Block ICP Soil
Matrix:	Soil		
Percent Solids:	89.91		

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/18 14:32	3290	mg/kg dry	2.81	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/18 14:32	ND	mg/kg dry	1.40	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/18 14:32	ND	mg/kg dry	1.40	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/18 14:32	18.6	mg/kg dry	0.562	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/18 14:32	0.138	mg/kg dry	0.0281	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/18 14:32	ND	mg/kg dry	0.281	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/18 14:32	938	mg/kg dry	28.1	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/18 14:32	5.14	mg/kg dry	0.281	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/18 14:32	2.31	mg/kg dry	0.225	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/18 14:32	8.71	mg/kg dry	0.281	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/18 14:32	7190	mg/kg dry	5.62	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/18 14:32	23.8	mg/kg dry	1.40	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/18 14:32	763	mg/kg dry	56.2	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/18 14:32	125	mg/kg dry	0.281	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/18 14:32	4.33	mg/kg dry	0.140	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/18 14:32	212	mg/kg dry	112	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/18 14:32	ND	mg/kg dry	1.40	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/18 14:32	ND	mg/kg dry	0.562	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/18 14:32	107	mg/kg dry	56.2	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/18 14:32	ND	mg/kg dry	1.40	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/18 14:32	9.94	mg/kg dry	0.562	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/18 14:32	22.8	mg/kg dry	0.843	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

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ANALYSIS DATA SHEET

Client: **Peak Environmental**
Client Sample ID: **NTP-2A**
Lab Sample ID: **8100452-02**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 09:33
Init/Final Vol:	2.06 g / 50 mL	Prep Method:	Hot Block ICP Soil
Matrix:	Soil		
Percent Solids:	92.54		

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/18 14:34	3800	mg/kg dry	2.62	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/18 14:34	ND	mg/kg dry	1.31	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/18 14:34	ND	mg/kg dry	1.31	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/18 14:34	21.4	mg/kg dry	0.525	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/18 14:34	0.160	mg/kg dry	0.0262	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/18 14:34	ND	mg/kg dry	0.262	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/18 14:34	1260	mg/kg dry	26.2	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/18 14:34	6.19	mg/kg dry	0.262	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/18 14:34	2.83	mg/kg dry	0.210	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/18 14:34	10.4	mg/kg dry	0.262	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/18 14:34	8240	mg/kg dry	5.25	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/18 14:34	26.2	mg/kg dry	1.31	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/18 14:34	952	mg/kg dry	52.5	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/18 14:34	144	mg/kg dry	0.262	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/18 14:34	5.14	mg/kg dry	0.131	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/18 14:34	251	mg/kg dry	105	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/18 14:34	ND	mg/kg dry	1.31	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/18 14:34	ND	mg/kg dry	0.525	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/18 14:34	116	mg/kg dry	52.5	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/18 14:34	ND	mg/kg dry	1.31	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/18 14:34	11.2	mg/kg dry	0.525	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/18 14:34	30.2	mg/kg dry	0.787	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Client: **Peak Environmental**
Client Sample ID: **NTP-2B**
Lab Sample ID: **8100452-03**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 09:33
Init/Final Vol:	2.12 g / 50 mL	Prep Method:	Hot Block ICP Soil
Matrix:	Soil		
Percent Solids:	92.25		

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/18 14:36	3620	mg/kg dry	2.56	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/18 14:36	ND	mg/kg dry	1.28	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/18 14:36	ND	mg/kg dry	1.28	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/18 14:36	17.9	mg/kg dry	0.511	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/18 14:36	0.184	mg/kg dry	0.0256	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/18 14:36	ND	mg/kg dry	0.256	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/18 14:36	1100	mg/kg dry	25.6	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/18 14:36	5.98	mg/kg dry	0.256	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/18 14:36	2.49	mg/kg dry	0.205	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/18 14:36	9.46	mg/kg dry	0.256	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/18 14:36	8490	mg/kg dry	5.11	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/18 14:36	19.0	mg/kg dry	1.28	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/18 14:36	885	mg/kg dry	51.1	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/18 14:36	139	mg/kg dry	0.256	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/18 14:36	5.09	mg/kg dry	0.128	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/18 14:36	233	mg/kg dry	102	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/18 14:36	ND	mg/kg dry	1.28	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/18 14:36	ND	mg/kg dry	0.511	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/18 14:36	93.8	mg/kg dry	51.1	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/18 14:36	ND	mg/kg dry	1.28	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/18 14:36	12.0	mg/kg dry	0.511	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/18 14:36	24.5	mg/kg dry	0.767	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Client: **Peak Environmental**
Client Sample ID: **NTP-3B**
Lab Sample ID: **8100452-04**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 09:33
Init/Final Vol:	2.06 g / 50 mL	Prep Method:	Hot Block ICP Soil
Matrix:	Soil		
Percent Solids:	91.33		

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/18 14:38	4300	mg/kg dry	2.66	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/18 14:38	ND	mg/kg dry	1.33	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/18 14:38	ND	mg/kg dry	1.33	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/18 14:38	24.3	mg/kg dry	0.532	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/18 14:38	0.181	mg/kg dry	0.0266	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/18 14:38	ND	mg/kg dry	0.266	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/18 14:38	619	mg/kg dry	26.6	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/18 14:38	7.12	mg/kg dry	0.266	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/18 14:38	3.03	mg/kg dry	0.213	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/18 14:38	7.89	mg/kg dry	0.266	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/18 14:38	9220	mg/kg dry	5.32	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/18 14:38	6.72	mg/kg dry	1.33	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/18 14:38	946	mg/kg dry	53.2	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/18 14:38	165	mg/kg dry	0.266	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/18 14:38	5.13	mg/kg dry	0.133	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/18 14:38	252	mg/kg dry	106	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/18 14:38	ND	mg/kg dry	1.33	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/18 14:38	ND	mg/kg dry	0.532	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/18 14:38	136	mg/kg dry	53.2	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/18 14:38	ND	mg/kg dry	1.33	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/18 14:38	13.4	mg/kg dry	0.532	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/18 14:38	20.3	mg/kg dry	0.797	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Client: **Peak Environmental**
Client Sample ID: **NTP-4B**
Lab Sample ID: **8100452-05**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:35	Prep Date:	10/11/18 09:33
Init/Final Vol:	1.9 g / 50 mL	Prep Method:	Hot Block ICP Soil
Matrix:	Soil		
Percent Solids:	92.00		

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/18 14:40	5500	mg/kg dry	2.86	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/18 14:40	ND	mg/kg dry	1.43	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/18 14:40	ND	mg/kg dry	1.43	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/18 14:40	31.8	mg/kg dry	0.572	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/18 14:40	0.203	mg/kg dry	0.0286	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/18 14:40	ND	mg/kg dry	0.286	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/18 14:40	933	mg/kg dry	28.6	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/18 14:40	11.2	mg/kg dry	0.286	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/18 14:40	4.83	mg/kg dry	0.229	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/18 14:40	9.21	mg/kg dry	0.286	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/18 14:40	12100	mg/kg dry	5.72	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/18 14:40	5.21	mg/kg dry	1.43	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/18 14:40	1750	mg/kg dry	57.2	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/18 14:40	229	mg/kg dry	0.286	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/18 14:40	7.75	mg/kg dry	0.143	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/18 14:40	261	mg/kg dry	114	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/18 14:40	ND	mg/kg dry	1.43	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/18 14:40	ND	mg/kg dry	0.572	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/18 14:40	335	mg/kg dry	57.2	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/18 14:40	ND	mg/kg dry	1.43	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/18 14:40	18.9	mg/kg dry	0.572	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/18 14:40	17.6	mg/kg dry	0.858	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

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ANALYSIS DATA SHEET

Client: **Peak Environmental**
Client Sample ID: **NTP-6**
Lab Sample ID: **8100452-06**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:50	Prep Date:	10/11/18 09:33
Init/Final Vol:	1.94 g / 50 mL	Prep Method:	Hot Block ICP Soil
Matrix:	Soil		
Percent Solids:	87.70		

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/18 14:42	6670	mg/kg dry	2.94	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/18 14:42	ND	mg/kg dry	1.47	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/18 14:42	1.71	mg/kg dry	1.47	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/18 14:42	29.1	mg/kg dry	0.588	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/18 14:42	0.282	mg/kg dry	0.0294	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/18 14:42	ND	mg/kg dry	0.294	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/18 14:42	1140	mg/kg dry	29.4	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/18 14:42	9.79	mg/kg dry	0.294	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/18 14:42	3.59	mg/kg dry	0.235	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/18 14:42	10.1	mg/kg dry	0.294	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/18 14:42	12300	mg/kg dry	5.88	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/18 14:42	7.82	mg/kg dry	1.47	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/18 14:42	1290	mg/kg dry	58.8	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/18 14:42	176	mg/kg dry	0.294	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/18 14:42	6.47	mg/kg dry	0.147	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/18 14:42	361	mg/kg dry	118	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/18 14:42	ND	mg/kg dry	1.47	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/18 14:42	ND	mg/kg dry	0.588	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/18 14:42	132	mg/kg dry	58.8	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/18 14:42	ND	mg/kg dry	1.47	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/18 14:42	17.4	mg/kg dry	0.588	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/18 14:42	20.9	mg/kg dry	0.882	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

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ANALYSIS DATA SHEET

Client: **Peak Environmental**
Client Sample ID: **NTP-7**
Lab Sample ID: **8100452-07**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:00	Prep Date:	10/11/18 09:33
Init/Final Vol:	2.02 g / 50 mL	Prep Method:	Hot Block ICP Soil
Matrix:	Soil		
Percent Solids:	91.36		

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/18 14:44	4450	mg/kg dry	2.71	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/18 14:44	ND	mg/kg dry	1.35	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/18 14:44	ND	mg/kg dry	1.35	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/18 14:44	21.4	mg/kg dry	0.542	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/18 14:44	0.160	mg/kg dry	0.0271	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/18 14:44	ND	mg/kg dry	0.271	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/18 14:44	1080	mg/kg dry	27.1	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/18 14:44	6.67	mg/kg dry	0.271	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/18 14:44	3.01	mg/kg dry	0.217	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/18 14:44	8.67	mg/kg dry	0.271	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/18 14:44	8450	mg/kg dry	5.42	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/18 14:44	11.3	mg/kg dry	1.35	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/18 14:44	1090	mg/kg dry	54.2	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/18 14:44	145	mg/kg dry	0.271	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/18 14:44	5.23	mg/kg dry	0.135	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/18 14:44	230	mg/kg dry	108	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/18 14:44	ND	mg/kg dry	1.35	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/18 14:44	ND	mg/kg dry	0.542	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/18 14:44	160	mg/kg dry	54.2	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/18 14:44	ND	mg/kg dry	1.35	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/18 14:44	12.8	mg/kg dry	0.542	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/18 14:44	21.1	mg/kg dry	0.813	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

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ANALYSIS DATA SHEET

Client: **Peak Environmental**
Client Sample ID: **STP-1B**
Lab Sample ID: **8100452-08**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:15	Prep Date:	10/11/18 09:33
Init/Final Vol:	2.08 g / 50 mL	Prep Method:	Hot Block ICP Soil
Matrix:	Soil		
Percent Solids:	89.59		

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/18 14:46	5040	mg/kg dry	2.68	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/18 14:46	ND	mg/kg dry	1.34	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/18 14:46	ND	mg/kg dry	1.34	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/18 14:46	20.2	mg/kg dry	0.537	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/18 14:46	0.191	mg/kg dry	0.0268	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/18 14:46	ND	mg/kg dry	0.268	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/18 14:46	453	mg/kg dry	26.8	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/18 14:46	7.08	mg/kg dry	0.268	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/18 14:46	3.03	mg/kg dry	0.215	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/18 14:46	7.22	mg/kg dry	0.268	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/18 14:46	9500	mg/kg dry	5.37	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/18 14:46	4.88	mg/kg dry	1.34	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/18 14:46	966	mg/kg dry	53.7	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/18 14:46	144	mg/kg dry	0.268	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/18 14:46	5.18	mg/kg dry	0.134	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/18 14:46	260	mg/kg dry	107	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/18 14:46	ND	mg/kg dry	1.34	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/18 14:46	ND	mg/kg dry	0.537	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/18 14:46	72.2	mg/kg dry	53.7	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/18 14:46	ND	mg/kg dry	1.34	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/18 14:46	13.0	mg/kg dry	0.537	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/18 14:46	23.5	mg/kg dry	0.805	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Client: **Peak Environmental**
Client Sample ID: **STP-2B**
Lab Sample ID: **8100452-09**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:30	Prep Date:	10/11/18 09:33
Init/Final Vol:	1.86 g / 50 mL	Prep Method:	Hot Block ICP Soil
Matrix:	Soil		
Percent Solids:	91.55		

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/18 14:48	5700	mg/kg dry	2.94	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/18 14:48	ND	mg/kg dry	1.47	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/18 14:48	ND	mg/kg dry	1.47	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/18 14:48	23.4	mg/kg dry	0.587	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/18 14:48	0.223	mg/kg dry	0.0294	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/18 14:48	ND	mg/kg dry	0.294	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/18 14:48	473	mg/kg dry	29.4	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/18 14:48	7.63	mg/kg dry	0.294	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/18 14:48	3.23	mg/kg dry	0.235	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/18 14:48	8.57	mg/kg dry	0.294	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/18 14:48	11100	mg/kg dry	5.87	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/18 14:48	6.05	mg/kg dry	1.47	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/18 14:48	1070	mg/kg dry	58.7	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/18 14:48	187	mg/kg dry	0.294	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/18 14:48	5.76	mg/kg dry	0.147	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/18 14:48	271	mg/kg dry	117	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/18 14:48	ND	mg/kg dry	1.47	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/18 14:48	ND	mg/kg dry	0.587	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/18 14:48	74.3	mg/kg dry	58.7	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/18 14:48	ND	mg/kg dry	1.47	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/18 14:48	13.9	mg/kg dry	0.587	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/18 14:48	38.2	mg/kg dry	0.881	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Client: **Peak Environmental**
Client Sample ID: **STP-3B**
Lab Sample ID: **8100452-10**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:40	Prep Date:	10/11/18 09:33
Init/Final Vol:	2.11 g / 50 mL	Prep Method:	Hot Block ICP Soil
Matrix:	Soil		
Percent Solids:	91.53		

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/18 14:50	4900	mg/kg dry	2.59	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/18 14:50	ND	mg/kg dry	1.29	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/18 14:50	1.65	mg/kg dry	1.29	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/18 14:50	19.4	mg/kg dry	0.518	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/18 14:50	0.184	mg/kg dry	0.0259	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/18 14:50	ND	mg/kg dry	0.259	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/18 14:50	463	mg/kg dry	25.9	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/18 14:50	6.68	mg/kg dry	0.259	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/18 14:50	2.90	mg/kg dry	0.207	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/18 14:50	7.66	mg/kg dry	0.259	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/18 14:50	9550	mg/kg dry	5.18	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/18 14:50	6.01	mg/kg dry	1.29	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/18 14:50	977	mg/kg dry	51.8	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/18 14:50	163	mg/kg dry	0.259	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/18 14:50	5.18	mg/kg dry	0.129	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/18 14:50	272	mg/kg dry	104	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/18 14:50	ND	mg/kg dry	1.29	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/18 14:50	ND	mg/kg dry	0.518	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/18 14:50	74.0	mg/kg dry	51.8	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/18 14:50	ND	mg/kg dry	1.29	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/18 14:50	12.7	mg/kg dry	0.518	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/18 14:50	21.0	mg/kg dry	0.777	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

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ANALYSIS DATA SHEET

Client: **Peak Environmental**
Client Sample ID: **STP-4A**
Lab Sample ID: **8100452-11**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 09:33
Init/Final Vol:	1.95 g / 50 mL	Prep Method:	Hot Block ICP Soil
Matrix:	Soil		
Percent Solids:	90.63		

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/18 15:31	6100	mg/kg dry	2.83	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/18 15:31	ND	mg/kg dry	1.41	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/18 15:31	ND	mg/kg dry	1.41	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/18 15:31	23.3	mg/kg dry	0.566	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/18 15:31	0.215	mg/kg dry	0.0283	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/18 15:31	ND	mg/kg dry	0.283	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/18 15:31	634	mg/kg dry	28.3	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/18 15:31	8.26	mg/kg dry	0.283	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/18 15:31	3.51	mg/kg dry	0.226	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/18 15:31	9.17	mg/kg dry	0.283	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/18 15:31	10900	mg/kg dry	5.66	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/18 15:31	10.6	mg/kg dry	1.41	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/18 15:31	1110	mg/kg dry	56.6	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/18 15:31	209	mg/kg dry	0.283	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/18 15:31	6.25	mg/kg dry	0.141	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/18 15:31	286	mg/kg dry	113	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/18 15:31	ND	mg/kg dry	1.41	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/18 15:31	ND	mg/kg dry	0.566	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/18 15:31	85.2	mg/kg dry	56.6	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/18 15:31	ND	mg/kg dry	1.41	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/18 15:31	15.4	mg/kg dry	0.566	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/18 15:31	20.4	mg/kg dry	0.849	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Client: **Peak Environmental**
Client Sample ID: **STP-4B**
Lab Sample ID: **8100452-12**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 09:33
Init/Final Vol:	2.02 g / 50 mL	Prep Method:	Hot Block ICP Soil
Matrix:	Soil		
Percent Solids:	91.70		

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/18 15:33	5610	mg/kg dry	2.70	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/18 15:33	ND	mg/kg dry	1.35	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/18 15:33	ND	mg/kg dry	1.35	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/18 15:33	24.9	mg/kg dry	0.540	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/18 15:33	0.211	mg/kg dry	0.0270	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/18 15:33	ND	mg/kg dry	0.270	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/18 15:33	899	mg/kg dry	27.0	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/18 15:33	7.75	mg/kg dry	0.270	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/18 15:33	3.46	mg/kg dry	0.216	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/18 15:33	8.07	mg/kg dry	0.270	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/18 15:33	10600	mg/kg dry	5.40	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/18 15:33	8.26	mg/kg dry	1.35	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/18 15:33	1220	mg/kg dry	54.0	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/18 15:33	261	mg/kg dry	0.270	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/18 15:33	6.18	mg/kg dry	0.135	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/18 15:33	283	mg/kg dry	108	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/18 15:33	ND	mg/kg dry	1.35	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/18 15:33	ND	mg/kg dry	0.540	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/18 15:33	82.6	mg/kg dry	54.0	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/18 15:33	ND	mg/kg dry	1.35	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/18 15:33	14.7	mg/kg dry	0.540	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/18 15:33	23.2	mg/kg dry	0.810	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Client: **Peak Environmental**
Client Sample ID: **STP-5**
Lab Sample ID: **8100452-13**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 09:33
Init/Final Vol:	1.88 g / 50 mL	Prep Method:	Hot Block ICP Soil
Matrix:	Soil		
Percent Solids:	92.63		

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/18 15:37	6860	mg/kg dry	2.87	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/18 15:37	ND	mg/kg dry	1.44	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/18 15:37	3.01	mg/kg dry	1.44	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/18 15:37	23.0	mg/kg dry	0.574	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/18 15:37	0.256	mg/kg dry	0.0287	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/18 15:37	ND	mg/kg dry	0.287	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/18 15:37	310	mg/kg dry	28.7	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/18 15:37	8.30	mg/kg dry	0.287	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/18 15:37	4.74	mg/kg dry	0.230	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/18 15:37	9.68	mg/kg dry	0.287	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/18 15:37	15100	mg/kg dry	5.74	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/18 15:37	5.25	mg/kg dry	1.44	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/18 15:37	1150	mg/kg dry	57.4	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/18 15:37	333	mg/kg dry	0.287	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/18 15:37	7.29	mg/kg dry	0.144	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/18 15:37	241	mg/kg dry	115	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/18 15:37	ND	mg/kg dry	1.44	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/18 15:37	ND	mg/kg dry	0.574	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/18 15:37	ND	mg/kg dry	57.4	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/18 15:37	ND	mg/kg dry	1.44	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/18 15:37	17.3	mg/kg dry	0.574	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/18 15:37	39.9	mg/kg dry	0.861	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Client: **Peak Environmental**
Client Sample ID: **STP-7**
Lab Sample ID: **8100452-14**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 09:33
Init/Final Vol:	2.12 g / 50 mL	Prep Method:	Hot Block ICP Soil
Matrix:	Soil		
Percent Solids:	92.94		

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/18 15:39	4650	mg/kg dry	2.54	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/18 15:39	ND	mg/kg dry	1.27	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/18 15:39	1.49	mg/kg dry	1.27	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/18 15:39	18.5	mg/kg dry	0.508	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/18 15:39	0.178	mg/kg dry	0.0254	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/18 15:39	ND	mg/kg dry	0.254	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/18 15:39	294	mg/kg dry	25.4	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/18 15:39	6.14	mg/kg dry	0.254	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/18 15:39	2.97	mg/kg dry	0.203	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/18 15:39	6.73	mg/kg dry	0.254	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/18 15:39	9110	mg/kg dry	5.08	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/18 15:39	4.31	mg/kg dry	1.27	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/18 15:39	910	mg/kg dry	50.8	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/18 15:39	240	mg/kg dry	0.254	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/18 15:39	5.05	mg/kg dry	0.127	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/18 15:39	210	mg/kg dry	102	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/18 15:39	ND	mg/kg dry	1.27	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/18 15:39	ND	mg/kg dry	0.508	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/18 15:39	52.0	mg/kg dry	50.8	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/18 15:39	ND	mg/kg dry	1.27	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/18 15:39	11.8	mg/kg dry	0.508	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/18 15:39	24.1	mg/kg dry	0.761	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

Total Metals - Quality Control

Aqua Pro-Tech Laboratories

Batch B8J1105 **Method: SW 846 6010D** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1105-BS1		Aluminum	4590	mg/kg wet	5000		91.7	80-120		
B8J1105-BS1		Antimony	11.2	mg/kg wet	12.5		90.0	80-120		
B8J1105-BS1		Arsenic	11.2	mg/kg wet	12.5		89.6	80-120		
B8J1105-BS1		Barium	11.4	mg/kg wet	12.5		91.4	80-120		
B8J1105-BS1		Beryllium	12.2	mg/kg wet	12.5		97.2	80-120		
B8J1105-BS1		Cadmium	11.6	mg/kg wet	12.5		92.4	80-120		
B8J1105-BS1		Calcium	2980	mg/kg wet	3120		95.2	80-120		
B8J1105-BS1		Chromium	11.5	mg/kg wet	12.5		92.0	80-120		
B8J1105-BS1		Cobalt	11.0	mg/kg wet	12.5		88.0	80-120		
B8J1105-BS1		Copper	12.3	mg/kg wet	12.5		98.6	80-120		
B8J1105-BS1		Iron	6650	mg/kg wet	7500		88.7	80-120		
B8J1105-BS1		Lead	11.0	mg/kg wet	12.5		88.0	80-120		
B8J1105-BS1		Magnesium	2910	mg/kg wet	3120		93.0	80-120		
B8J1105-BS1		Manganese	11.4	mg/kg wet	12.5		90.8	80-120		
B8J1105-BS1		Nickel	11.0	mg/kg wet	12.5		87.6	80-120		
B8J1105-BS1		Potassium	2950	mg/kg wet	3120		94.4	80-120		
B8J1105-BS1		Selenium	10.9	mg/kg wet	12.5		87.4	80-120		
B8J1105-BS1		Silver	10.6	mg/kg wet	12.5		84.6	80-120		
B8J1105-BS1		Sodium	2920	mg/kg wet	3120		93.6	80-120		
B8J1105-BS1		Thallium	11.2	mg/kg wet	12.5		89.8	80-120		
B8J1105-BS1		Vanadium	11.8	mg/kg wet	12.5		94.8	80-120		
B8J1105-BS1		Zinc	10.7	mg/kg wet	12.5		85.8	80-120		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

F-III NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Batch B8J1105 (cont.) **Method: SW 846 6010D** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1105-DUP1	8100452-13	Aluminum	5880	mg/kg dry		6860			15.4	20
B8J1105-DUP1	8100452-13	Antimony	ND	mg/kg dry		ND				20
B8J1105-DUP1	8100452-13	Arsenic	3.16	mg/kg dry		3.01			4.65	20
B8J1105-DUP1	8100452-13	Barium	20.0	mg/kg dry		23.0			13.8	20
B8J1105-DUP1	8100452-13	Beryllium	0.224	mg/kg dry		0.256			13.2	20
B8J1105-DUP1	8100452-13	Cadmium	ND	mg/kg dry		ND				20
B8J1105-DUP1	8100452-13	Calcium	141	mg/kg dry		310			75.2*	20
B8J1105-DUP1	8100452-13	Chromium	7.41	mg/kg dry		8.30			11.3	20
B8J1105-DUP1	8100452-13	Cobalt	4.39	mg/kg dry		4.74			7.55	20
B8J1105-DUP1	8100452-13	Copper	8.30	mg/kg dry		9.68			15.3	20
B8J1105-DUP1	8100452-13	Iron	13800	mg/kg dry		15100			8.54	20
B8J1105-DUP1	8100452-13	Lead	3.90	mg/kg dry		5.25			29.5*	20
B8J1105-DUP1	8100452-13	Magnesium	904	mg/kg dry		1150			23.6*	20
B8J1105-DUP1	8100452-13	Manganese	322	mg/kg dry		333			3.51	20
B8J1105-DUP1	8100452-13	Nickel	6.69	mg/kg dry		7.29			8.62	20
B8J1105-DUP1	8100452-13	Potassium	196	mg/kg dry		241			20.4*	20
B8J1105-DUP1	8100452-13	Selenium	ND	mg/kg dry		ND				20
B8J1105-DUP1	8100452-13	Silver	ND	mg/kg dry		ND				20
B8J1105-DUP1	8100452-13	Sodium	ND	mg/kg dry		ND				20
B8J1105-DUP1	8100452-13	Thallium	ND	mg/kg dry		ND				20
B8J1105-DUP1	8100452-13	Vanadium	15.0	mg/kg dry		17.3			13.7	20
B8J1105-DUP1	8100452-13	Zinc	35.3	mg/kg dry		39.9			12.2	20

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

F-III NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Batch B8J1105 (cont.) **Method: SW 846 6010D** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1105-MS1	8100452-13	Aluminum	11700	mg/kg dry	5740	6860	84.7	75-125		
B8J1105-MS1	8100452-13	Antimony	10.4	mg/kg dry	14.4	ND	72.2*	75-125		
B8J1105-MS1	8100452-13	Arsenic	14.3	mg/kg dry	14.4	3.01	78.8	75-125		
B8J1105-MS1	8100452-13	Barium	32.7	mg/kg dry	14.4	23.0	68.0*	75-125		
B8J1105-MS1	8100452-13	Beryllium	12.1	mg/kg dry	14.4	0.256	82.4	75-125		
B8J1105-MS1	8100452-13	Cadmium	11.0	mg/kg dry	14.4	ND	76.8	75-125		
B8J1105-MS1	8100452-13	Calcium	3010	mg/kg dry	3590	310	75.4	75-125		
B8J1105-MS1	8100452-13	Chromium	19.1	mg/kg dry	14.4	8.30	75.2	75-125		
B8J1105-MS1	8100452-13	Cobalt	15.4	mg/kg dry	14.4	4.74	74.0*	75-125		
B8J1105-MS1	8100452-13	Copper	22.0	mg/kg dry	14.4	9.68	86.2	75-125		
B8J1105-MS1	8100452-13	Iron	21700	mg/kg dry	8610	15100	77.0	75-125		
B8J1105-MS1	8100452-13	Lead	14.2	mg/kg dry	14.4	5.25	62.4*	75-125		
B8J1105-MS1	8100452-13	Magnesium	3920	mg/kg dry	3590	1150	77.2	75-125		
B8J1105-MS1	8100452-13	Manganese	362	mg/kg dry	14.4	333	200(NC)	75-125		
B8J1105-MS1	8100452-13	Nickel	17.6	mg/kg dry	14.4	7.29	72.0*	75-125		
B8J1105-MS1	8100452-13	Potassium	3070	mg/kg dry	3590	241	78.9	75-125		
B8J1105-MS1	8100452-13	Selenium	10.3	mg/kg dry	14.4	ND	72.0*	75-125		
B8J1105-MS1	8100452-13	Silver	10.3	mg/kg dry	14.4	ND	72.0*	75-125		
B8J1105-MS1	8100452-13	Sodium	2930	mg/kg dry	3590	53.4 J	80.1	75-125		
B8J1105-MS1	8100452-13	Thallium	10.8	mg/kg dry	14.4	0.307 J	73.3*	75-125		
B8J1105-MS1	8100452-13	Vanadium	29.0	mg/kg dry	14.4	17.3	81.8	75-125		
B8J1105-MS1	8100452-13	Zinc	49.7	mg/kg dry	14.4	39.9	68.0*	75-125		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Batch B8J1105 (cont.) **Method: SW 846 6010D** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1105-MSD1	8100452-13	Aluminum	12100	mg/kg dry	5740	6860	91.8	75-125	3.42	20
B8J1105-MSD1	8100452-13	Antimony	12.0	mg/kg dry	14.4	ND	83.6	75-125	14.6	20
B8J1105-MSD1	8100452-13	Arsenic	15.6	mg/kg dry	14.4	3.01	87.6	75-125	8.45	20
B8J1105-MSD1	8100452-13	Barium	33.6	mg/kg dry	14.4	23.0	74.0*	75-125	2.60	20
B8J1105-MSD1	8100452-13	Beryllium	13.8	mg/kg dry	14.4	0.256	94.4	75-125	13.3	20
B8J1105-MSD1	8100452-13	Cadmium	12.7	mg/kg dry	14.4	ND	88.4	75-125	14.0	20
B8J1105-MSD1	8100452-13	Calcium	3420	mg/kg dry	3590	310	86.6	75-125	12.5	20
B8J1105-MSD1	8100452-13	Chromium	20.5	mg/kg dry	14.4	8.30	84.8	75-125	6.97	20
B8J1105-MSD1	8100452-13	Cobalt	16.8	mg/kg dry	14.4	4.74	83.8	75-125	8.76	20
B8J1105-MSD1	8100452-13	Copper	23.5	mg/kg dry	14.4	9.68	96.2	75-125	6.31	20
B8J1105-MSD1	8100452-13	Iron	21900	mg/kg dry	8610	15100	79.3	75-125	0.922	20
B8J1105-MSD1	8100452-13	Lead	16.1	mg/kg dry	14.4	5.25	75.4	75-125	12.3	20
B8J1105-MSD1	8100452-13	Magnesium	4240	mg/kg dry	3590	1150	86.3	75-125	7.99	20
B8J1105-MSD1	8100452-13	Manganese	359	mg/kg dry	14.4	333	180(NC)	75-125	0.797	20
B8J1105-MSD1	8100452-13	Nickel	19.1	mg/kg dry	14.4	7.29	82.0	75-125	7.82	20
B8J1105-MSD1	8100452-13	Potassium	3500	mg/kg dry	3590	241	90.9	75-125	13.1	20
B8J1105-MSD1	8100452-13	Selenium	11.8	mg/kg dry	14.4	ND	82.2	75-125	13.2	20
B8J1105-MSD1	8100452-13	Silver	11.7	mg/kg dry	14.4	ND	81.2	75-125	12.0	20
B8J1105-MSD1	8100452-13	Sodium	3330	mg/kg dry	3590	53.4 J	91.3	75-125	12.8	20
B8J1105-MSD1	8100452-13	Thallium	12.3	mg/kg dry	14.4	0.307 J	83.9	75-125	13.1	20
B8J1105-MSD1	8100452-13	Vanadium	29.3	mg/kg dry	14.4	17.3	83.8	75-125	0.985	20
B8J1105-MSD1	8100452-13	Zinc	50.2	mg/kg dry	14.4	39.9	72.0*	75-125	1.15	20

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL
NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

F-III

Batch B8J1105 (cont.) **Method: SW 846 6010D** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1105-PS1	8100452-13	Aluminum	428	mg/L	200	239	94.5	75-125		
B8J1105-PS1	8100452-13	Antimony	0.480	mg/L	0.500	ND	96.0	75-125		
B8J1105-PS1	8100452-13	Arsenic	0.607	mg/L	0.500	0.105 J	100	75-125		
B8J1105-PS1	8100452-13	Barium	1.19	mg/L	0.500	0.800	78.0	75-125		
B8J1105-PS1	8100452-13	Beryllium	0.529	mg/L	0.500	0.00890 J	104	75-125		
B8J1105-PS1	8100452-13	Cadmium	0.503	mg/L	0.500	ND	101	75-125		
B8J1105-PS1	8100452-13	Calcium	132	mg/L	125	10.8 J	97.0	75-125		
B8J1105-PS1	8100452-13	Chromium	0.751	mg/L	0.500	0.289	92.4	75-125		
B8J1105-PS1	8100452-13	Cobalt	0.627	mg/L	0.500	0.165 J	92.4	75-125		
B8J1105-PS1	8100452-13	Copper	0.868	mg/L	0.500	0.337	106	75-125		
B8J1105-PS1	8100452-13	Iron	756	mg/L	300	525	77.0	75-125		
B8J1105-PS1	8100452-13	Lead	0.589	mg/L	0.500	0.183 J	81.2	75-125		
B8J1105-PS1	8100452-13	Magnesium	161	mg/L	125	39.9 J	96.6	75-125		
B8J1105-PS1	8100452-13	Manganese	11.2	mg/L	0.500	11.6	-80.0(NC)	75-125		
B8J1105-PS1	8100452-13	Nickel	0.693	mg/L	0.500	0.254	87.8	75-125		
B8J1105-PS1	8100452-13	Potassium	137	mg/L	125	8.38 J	103	75-125		
B8J1105-PS1	8100452-13	Selenium	0.477	mg/L	0.500	ND	95.4	75-125		
B8J1105-PS1	8100452-13	Silver	0.392	mg/L	0.500	ND	78.4	75-125		
B8J1105-PS1	8100452-13	Sodium	128	mg/L	125	1.86 J	101	75-125		
B8J1105-PS1	8100452-13	Thallium	0.473	mg/L	0.500	0.0107 J	92.5	75-125		
B8J1105-PS1	8100452-13	Vanadium	1.06	mg/L	0.500	0.601	91.8	75-125		
B8J1105-PS1	8100452-13	Zinc	1.75	mg/L	0.500	1.39	72.0*	75-125		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Total Metals - Quality Control

Aqua Pro-Tech Laboratories

Sequence S8J1112 **Method: SW 846 6010D** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
S8J1112-SRD1	8100452-13	Aluminum	6940	mg/kg dry		6860			1.21	10
S8J1112-SRD1	8100452-13	Antimony	ND	mg/kg dry		ND				10
S8J1112-SRD1	8100452-13	Arsenic	ND	mg/kg dry		3.01				10
S8J1112-SRD1	8100452-13	Barium	25.3	mg/kg dry		23.0			9.52	10
S8J1112-SRD1	8100452-13	Beryllium	0.258	mg/kg dry		0.256			1.12	10
S8J1112-SRD1	8100452-13	Cadmium	ND	mg/kg dry		ND				10
S8J1112-SRD1	8100452-13	Calcium	324	mg/kg dry		310			4.52	10
S8J1112-SRD1	8100452-13	Chromium	8.96	mg/kg dry		8.30			7.65	10
S8J1112-SRD1	8100452-13	Cobalt	5.12	mg/kg dry		4.74			7.86	10
S8J1112-SRD1	8100452-13	Copper	9.99	mg/kg dry		9.68			3.21	10
S8J1112-SRD1	8100452-13	Iron	15900	mg/kg dry		15100			5.56	10
S8J1112-SRD1	8100452-13	Lead	ND	mg/kg dry		5.25				10
S8J1112-SRD1	8100452-13	Magnesium	1270	mg/kg dry		1150			10.1*	10
S8J1112-SRD1	8100452-13	Manganese	375	mg/kg dry		333			11.8*	10
S8J1112-SRD1	8100452-13	Nickel	8.10	mg/kg dry		7.29			10.4*	10
S8J1112-SRD1	8100452-13	Potassium	ND	mg/kg dry		241				10
S8J1112-SRD1	8100452-13	Selenium	ND	mg/kg dry		ND				10
S8J1112-SRD1	8100452-13	Silver	ND	mg/kg dry		ND				10
S8J1112-SRD1	8100452-13	Sodium	ND	mg/kg dry		53.4 J				10
S8J1112-SRD1	8100452-13	Thallium	ND	mg/kg dry		0.307 J				10
S8J1112-SRD1	8100452-13	Vanadium	18.4	mg/kg dry		17.3			6.29	10
S8J1112-SRD1	8100452-13	Zinc	45.2	mg/kg dry		39.9			12.5*	10

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

METHOD BLANK SUMMARY

Batch ID: **B8J1105**

Lab Number	Sample Id	Extraction Date	Analysis Date
B8J1105-BLK1	BLK1	10/11/2018	10/11/2018 17:57
B8J1105-BS1	BS1	10/11/2018	10/11/2018 17:58
B8J1105-DUP1	DUP1	10/11/2018	10/11/2018 18:00
B8J1105-MS1	MS1	10/11/2018	10/11/2018 18:03
B8J1105-MSD1	MSD1	10/11/2018	10/11/2018 18:05
B8J1105-PS1	PS1	10/11/2018	10/11/2018 18:07
8100452-01	NTP-1A	10/11/2018	10/11/2018 14:32
8100452-02	NTP-2A	10/11/2018	10/11/2018 14:34
8100452-03	NTP-2B	10/11/2018	10/11/2018 14:36
8100452-04	NTP-3B	10/11/2018	10/11/2018 14:38
8100452-05	NTP-4B	10/11/2018	10/11/2018 14:40
8100452-06	NTP-6	10/11/2018	10/11/2018 14:42
8100452-07	NTP-7	10/11/2018	10/11/2018 14:44
8100452-08	STP-1B	10/11/2018	10/11/2018 14:46
8100452-09	STP-2B	10/11/2018	10/11/2018 14:48
8100452-10	STP-3B	10/11/2018	10/11/2018 14:50
8100452-11	STP-4A	10/11/2018	10/11/2018 15:31
8100452-12	STP-4B	10/11/2018	10/11/2018 15:33
8100452-13	STP-5	10/11/2018	10/11/2018 15:37
8100452-14	STP-7	10/11/2018	10/11/2018 15:39

ANALYSIS SEQUENCE SUMMARY

Laboratory:	Aqua Pro-Tech Laboratories	Work Order:	8100452
Client:	Peak Environmental	Project:	Ridgewood
Sequence:	S8J1112	Instrument:	ICP OES-1

Sample Name	Lab Sample ID	FileID	Analysis Date/Time
Initial Cal Check	S8J1112-ICV1	APL1_METHOD_IEC_2018-10-	10/11/18 10:15
Initial Cal Blank	S8J1112-ICB1	APL1_METHOD_IEC_2018-10-	10/11/18 10:19
Interference Check A	S8J1112-IFA1	APL1_METHOD_IEC_2018-10-	10/11/18 10:20
Interference Check B	S8J1112-IFB1	APL1_METHOD_IEC_2018-10-	10/11/18 10:22
NTP-1A	8100452-01	APL1_METHOD_IEC_2018-10-	10/11/18 14:32
NTP-2A	8100452-02	APL1_METHOD_IEC_2018-10-	10/11/18 14:34
NTP-2B	8100452-03	APL1_METHOD_IEC_2018-10-	10/11/18 14:36
NTP-3B	8100452-04	APL1_METHOD_IEC_2018-10-	10/11/18 14:38
NTP-4B	8100452-05	APL1_METHOD_IEC_2018-10-	10/11/18 14:40
NTP-6	8100452-06	APL1_METHOD_IEC_2018-10-	10/11/18 14:42
NTP-7	8100452-07	APL1_METHOD_IEC_2018-10-	10/11/18 14:44
STP-1B	8100452-08	APL1_METHOD_IEC_2018-10-	10/11/18 14:46
STP-2B	8100452-09	APL1_METHOD_IEC_2018-10-	10/11/18 14:48
STP-3B	8100452-10	APL1_METHOD_IEC_2018-10-	10/11/18 14:50
Calibration Check	S8J1112-CCV1	APL1_METHOD_IEC_2018-10-	10/11/18 14:54
Calibration Check	S8J1112-CCV2	APL1_METHOD_IEC_2018-10-	10/11/18 14:56
Calibration Blank	S8J1112-CCB1	APL1_METHOD_IEC_2018-10-	10/11/18 14:58
STP-4A	8100452-11	APL1_METHOD_IEC_2018-10-	10/11/18 15:31
STP-4B	8100452-12	APL1_METHOD_IEC_2018-10-	10/11/18 15:33
Serial Dilution	S8J1112-SRD1	APL1_METHOD_IEC_2018-10-	10/11/18 15:35
STP-5	8100452-13	APL1_METHOD_IEC_2018-10-	10/11/18 15:37
STP-7	8100452-14	APL1_METHOD_IEC_2018-10-	10/11/18 15:39
Calibration Check	S8J1112-CCV3	APL1_METHOD_IEC_2018-10-	10/11/18 15:43
Calibration Check	S8J1112-CCV4	APL1_METHOD_IEC_2018-10-	10/11/18 15:45
Calibration Blank	S8J1112-CCB2	APL1_METHOD_IEC_2018-10-	10/11/18 15:47
Calibration Check	S8J1112-CCV5	APL1_METHOD_IEC_2018-10-	10/11/18 16:27
Calibration Check	S8J1112-CCV6	APL1_METHOD_IEC_2018-10-	10/11/18 16:28
Calibration Blank	S8J1112-CCB3	APL1_METHOD_IEC_2018-10-	10/11/18 16:30
Blank	B8J1105-BLK1	APL1_METHOD_IEC_2018-10-	10/11/18 17:57
LCS	B8J1105-BS1	APL1_METHOD_IEC_2018-10-	10/11/18 17:58
Duplicate	B8J1105-DUP1	APL1_METHOD_IEC_2018-10-	10/11/18 18:00
Matrix Spike	B8J1105-MS1	APL1_METHOD_IEC_2018-10-	10/11/18 18:03
Matrix Spike Dup	B8J1105-MSD1	APL1_METHOD_IEC_2018-10-	10/11/18 18:05

F-V

ANALYSIS SEQUENCE SUMMARY

Laboratory:	Aqua Pro-Tech Laboratories	Work Order:	8100452
Client:	Peak Environmental	Project:	Ridgewood
Sequence:	S8J1112	Instrument:	ICP OES-1

Sample Name	Lab Sample ID	FileID	Analysis Date/Time
Post Spike	B8J1105-PS1	APL1_METHOD_IEC_2018-10-	10/11/18 18:07
Calibration Check	S8J1112-CCV7	APL1_METHOD_IEC_2018-10-	10/11/18 18:11
Calibration Check	S8J1112-CCV8	APL1_METHOD_IEC_2018-10-	10/11/18 18:13
Calibration Blank	S8J1112-CCB4	APL1_METHOD_IEC_2018-10-	10/11/18 18:15

F-V

SEQUENCE CALIBRATION CHECKS

SW 846 6010D

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452

Sequence: S8J1112
Instrument: ICP OES-1

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S8J1112-ICV1	Antimony	1.00	0.969	96.9	mg/L	90-110
	Arsenic	1.00	0.975	97.5	mg/L	90-110
	Barium	1.00	0.979	97.9	mg/L	90-110
	Beryllium	1.00	0.982	98.2	mg/L	90-110
	Cadmium	1.00	0.977	97.7	mg/L	90-110
	Chromium	1.00	0.975	97.5	mg/L	90-110
	Cobalt	1.00	0.976	97.6	mg/L	90-110
	Copper	1.00	0.976	97.6	mg/L	90-110
	Lead	1.00	0.972	97.2	mg/L	90-110
	Manganese	1.00	0.970	97.0	mg/L	90-110
	Nickel	1.00	0.973	97.3	mg/L	90-110
	Selenium	1.00	0.992	99.2	mg/L	90-110
	Silver	1.00	0.922	92.2	mg/L	90-110
	Thallium	1.00	0.973	97.3	mg/L	90-110
	Vanadium	1.00	0.972	97.2	mg/L	90-110
	Zinc	1.00	0.982	98.2	mg/L	90-110
S8J1112-IFB1	Aluminum	501	515	103	mg/L	80-120
	Antimony	1.00	1.00	100	mg/L	80-120
	Arsenic	1.00	1.01	101	mg/L	80-120
	Barium	1.00	0.969	96.9	mg/L	80-120
	Beryllium	1.00	1.04	104	mg/L	80-120
	Cadmium	1.00	1.02	102	mg/L	80-120
	Calcium	501	494	98.6	mg/L	80-120
	Chromium	1.00	0.960	96.0	mg/L	80-120
	Cobalt	1.00	0.909	90.9	mg/L	80-120
	Copper	1.00	1.07	107	mg/L	80-120
	Iron	201	195	97.0	mg/L	80-120
	Lead	1.00	0.901	90.1	mg/L	80-120
	Magnesium	501	500	99.9	mg/L	80-120
	Manganese	1.00	0.944	94.4	mg/L	80-120
	Nickel	1.00	0.884	88.4	mg/L	80-120
	Selenium	1.00	0.996	99.6	mg/L	80-120
	Silver	1.00	1.00	100	mg/L	80-120
	Thallium	1.00	0.946	94.6	mg/L	80-120
	Vanadium	1.00	0.994	99.4	mg/L	80-120
	Zinc	1.00	0.903	90.3	mg/L	80-120
S8J1112-CCV1	Antimony	1.00	0.968	96.8	mg/L	90-110
	Arsenic	1.00	0.977	97.7	mg/L	90-110
	Barium	1.00	0.984	98.4	mg/L	90-110

ICV = Initial Cal Verification CCV = Continuing Cal Verification IFB = Interference Check Standard B

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SEQUENCE CALIBRATION CHECKS

SW 846 6010D

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452

Sequence: S8J1112
Instrument: ICP OES-1

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S8J1112-CCV1	Beryllium	1.00	1.00	100	mg/L	90-110
	Cadmium	1.00	0.982	98.2	mg/L	90-110
	Chromium	1.00	0.981	98.1	mg/L	90-110
	Cobalt	1.00	0.967	96.7	mg/L	90-110
	Copper	1.00	0.984	98.4	mg/L	90-110
	Lead	1.00	0.971	97.1	mg/L	90-110
	Manganese	1.00	0.976	97.6	mg/L	90-110
	Nickel	1.00	0.974	97.4	mg/L	90-110
	Selenium	1.00	0.994	99.4	mg/L	90-110
	Silver	1.00	0.933	93.3	mg/L	90-110
	Thallium	1.00	0.979	97.9	mg/L	90-110
	Vanadium	1.00	0.973	97.3	mg/L	90-110
	Zinc	1.00	0.960	96.0	mg/L	90-110
S8J1112-CCV2	Aluminum	100	99.4	99.4	mg/L	90-110
	Calcium	100	99.0	99.0	mg/L	90-110
	Iron	40.0	39.5	98.8	mg/L	90-110
	Magnesium	100	98.8	98.8	mg/L	90-110
	Potassium	100	100	100	mg/L	90-110
	Sodium	100	99.1	99.1	mg/L	90-110
S8J1112-CCV3	Antimony	1.00	0.986	98.6	mg/L	90-110
	Arsenic	1.00	0.991	99.1	mg/L	90-110
	Barium	1.00	1.00	100	mg/L	90-110
	Beryllium	1.00	1.02	102	mg/L	90-110
	Cadmium	1.00	1.00	100	mg/L	90-110
	Chromium	1.00	1.00	100	mg/L	90-110
	Cobalt	1.00	0.988	98.8	mg/L	90-110
	Copper	1.00	1.01	101	mg/L	90-110
	Lead	1.00	0.992	99.2	mg/L	90-110
	Manganese	1.00	0.998	99.8	mg/L	90-110
	Nickel	1.00	0.995	99.5	mg/L	90-110
	Selenium	1.00	1.01	101	mg/L	90-110
	Silver	1.00	0.950	95.0	mg/L	90-110
	Thallium	1.00	1.00	100	mg/L	90-110
	Vanadium	1.00	0.995	99.5	mg/L	90-110
	Zinc	1.00	0.978	97.8	mg/L	90-110
S8J1112-CCV4	Aluminum	100	101	101	mg/L	90-110
	Calcium	100	101	101	mg/L	90-110
	Iron	40.0	40.0	100	mg/L	90-110

ICV = Initial Cal Verification CCV = Continuing Cal Verification IFB = Interference Check Standard B

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SEQUENCE CALIBRATION CHECKS

SW 846 6010D

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452

Sequence: S8J1112
Instrument: ICP OES-1

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S8J1112-CCV4	Magnesium	100	101	101	mg/L	90-110
	Potassium	100	102	102	mg/L	90-110
	Sodium	100	100	100	mg/L	90-110
S8J1112-CCV5	Antimony	1.00	0.981	98.1	mg/L	90-110
	Arsenic	1.00	0.981	98.1	mg/L	90-110
	Barium	1.00	1.00	100	mg/L	90-110
	Beryllium	1.00	1.01	101	mg/L	90-110
	Cadmium	1.00	1.00	100	mg/L	90-110
	Chromium	1.00	1.00	100	mg/L	90-110
	Cobalt	1.00	0.985	98.5	mg/L	90-110
	Copper	1.00	1.00	100	mg/L	90-110
	Lead	1.00	0.989	98.9	mg/L	90-110
	Manganese	1.00	0.994	99.4	mg/L	90-110
	Nickel	1.00	0.991	99.1	mg/L	90-110
	Selenium	1.00	1.01	101	mg/L	90-110
	Silver	1.00	0.945	94.5	mg/L	90-110
	Thallium	1.00	0.995	99.5	mg/L	90-110
	Vanadium	1.00	0.993	99.3	mg/L	90-110
	Zinc	1.00	0.977	97.7	mg/L	90-110
S8J1112-CCV6	Aluminum	100	99.4	99.4	mg/L	90-110
	Calcium	100	98.6	98.6	mg/L	90-110
	Iron	40.0	39.0	97.5	mg/L	90-110
	Magnesium	100	99.7	99.7	mg/L	90-110
	Potassium	100	99.3	99.3	mg/L	90-110
	Sodium	100	98.6	98.6	mg/L	90-110
S8J1112-CCV7	Antimony	1.00	0.946	94.6	mg/L	90-110
	Arsenic	1.00	0.952	95.2	mg/L	90-110
	Barium	1.00	0.966	96.6	mg/L	90-110
	Beryllium	1.00	0.972	97.2	mg/L	90-110
	Cadmium	1.00	0.966	96.6	mg/L	90-110
	Chromium	1.00	0.965	96.5	mg/L	90-110
	Cobalt	1.00	0.953	95.3	mg/L	90-110
	Copper	1.00	0.962	96.2	mg/L	90-110
	Lead	1.00	0.957	95.7	mg/L	90-110
	Manganese	1.00	0.958	95.8	mg/L	90-110
	Nickel	1.00	0.957	95.7	mg/L	90-110
	Selenium	1.00	0.976	97.6	mg/L	90-110
	Silver	1.00	0.924	92.4	mg/L	90-110

ICV = Initial Cal Verification CCV = Continuing Cal Verification IFB = Interference Check Standard B

F-VII

SEQUENCE CALIBRATION CHECKS

SW 846 6010D

Client: **Peak Environmental**
Project: **Ridgewood**
Work Order: **8100452**

Sequence: S8J1112
Instrument: ICP OES-1

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S8J1112-CCV7	Thallium	1.00	0.955	95.5	mg/L	90-110
	Vanadium	1.00	0.957	95.7	mg/L	90-110
	Zinc	1.00	0.943	94.3	mg/L	90-110
S8J1112-CCV8	Aluminum	100	96.7	96.7	mg/L	90-110
	Calcium	100	97.3	97.3	mg/L	90-110
	Iron	40.0	38.1	95.2	mg/L	90-110
	Magnesium	100	97.7	97.7	mg/L	90-110
	Potassium	100	97.8	97.8	mg/L	90-110
	Sodium	100	96.3	96.3	mg/L	90-110

ICV = Initial Cal Verification CCV = Continuing Cal Verification IFB = Interference Check Standard B

PESTICIDES

Peak Environmental

Work Order: 8100452

Project: Ridgewood

ANALYSIS DATA SHEET

Pesticides - SW 846 8081B

Client:	**Peak Environmental**	**Project:**	**Ridgewood**
Client Sample ID:	**Blank**	**Work Order:**	**8100452**
Lab Sample ID:	**B8J1047-BLK1**		

Init/Final Vol:	15 g / 10 mL	Prep Date:	10/10/2018 15:25	File ID:	7T01034.D
		Prep Batch:	B8J1047	Analyzed:	10/12/2018 18:05
		Matrix:	Soil	Sequence:	S8J1503
		Prep Method:	Microwave Extraction		

CAS NO.	COMPOUND	CONC. (mg/kg wet)	MDL	RL	Q
72-54-8	4,4'-DDD	ND	0.000787	0.00130	U
72-55-9	4,4'-DDE	ND	0.000920	0.00130	U
50-29-3	4,4'-DDT	ND	0.000624	0.00130	U
309-00-2	Aldrin	ND	0.000807	0.00130	U
319-84-6	alpha-BHC	ND	0.000503	0.00130	U
319-85-7	beta-BHC	ND	0.00128	0.00130	U
57-74-9	Chlordane	ND	0.000873	0.00130	U
319-86-8	delta-BHC	ND	0.00101	0.00130	U
60-57-1	Dieldrin	ND	0.000700	0.00130	U
959-98-8	Endosulfan I	ND	0.000900	0.00130	U
33213-65-9	Endosulfan II	ND	0.000707	0.00130	U
1031-07-8	Endosulfan sulfate	ND	0.000707	0.00130	U
72-20-8	Endrin	ND	0.000667	0.00130	U
7421-93-4	Endrin aldehyde	ND	0.000555	0.00130	U
53494-70-5	Endrin ketone	ND	0.000793	0.00130	U
58-89-9	gamma-BHC (Lindane)	ND	0.000594	0.00130	U
76-44-8	Heptachlor	ND	0.000760	0.00130	U
1024-57-3	Heptachlor Epoxide	ND	0.000813	0.00130	U
72-43-5	Methoxychlor	ND	0.000827	0.00130	U
8001-35-2	Toxaphene	ND	0.0202	0.0660	U

F-I

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD7\DATA\20181012\7T01034.D\ECD1A.CH Vial: 17
Signal #2 : G:\HPCHEM\GCECD7\DATA\20181012\7T01034.D\ECD2B.CH
Acq On : 12 Oct 2018 18:05 Operator: sdp
Sample : B8J1047-BLK1 Inst : GCECD-7
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 15 10:52 2018 Quant Results File: 80811012.RES

Quant Method : G:\HPCHEM\G...\80811012.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Mon Oct 15 10:51:09 2018
Response via : Initial Calibration
DataAcq Meth : RUNPEST.M

Volume Inj. : 2ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
System Monitoring Compounds						
1) S TCMX	3.14	3.75	234.2E6	205.9E6	54.252	50.737
Spiked Amount 50.000	Range 43 - 129		Recovery =		108.50%	101.47%
20) S Decachlorobiphen	15.35	18.20	321.5E6	201.8E6	52.567	52.639
Spiked Amount 50.000	Range 42 - 136		Recovery =		105.13%	105.28%
Target Compounds						
Sum Chlordane (gamma)			0	0	N.D.	N.D.
Average Chlordane (gamma)					0.000	0.000
Sum Toxaphene (1)			0	0	N.D.	N.D.
Average Toxaphene (1)					0.000	0.000

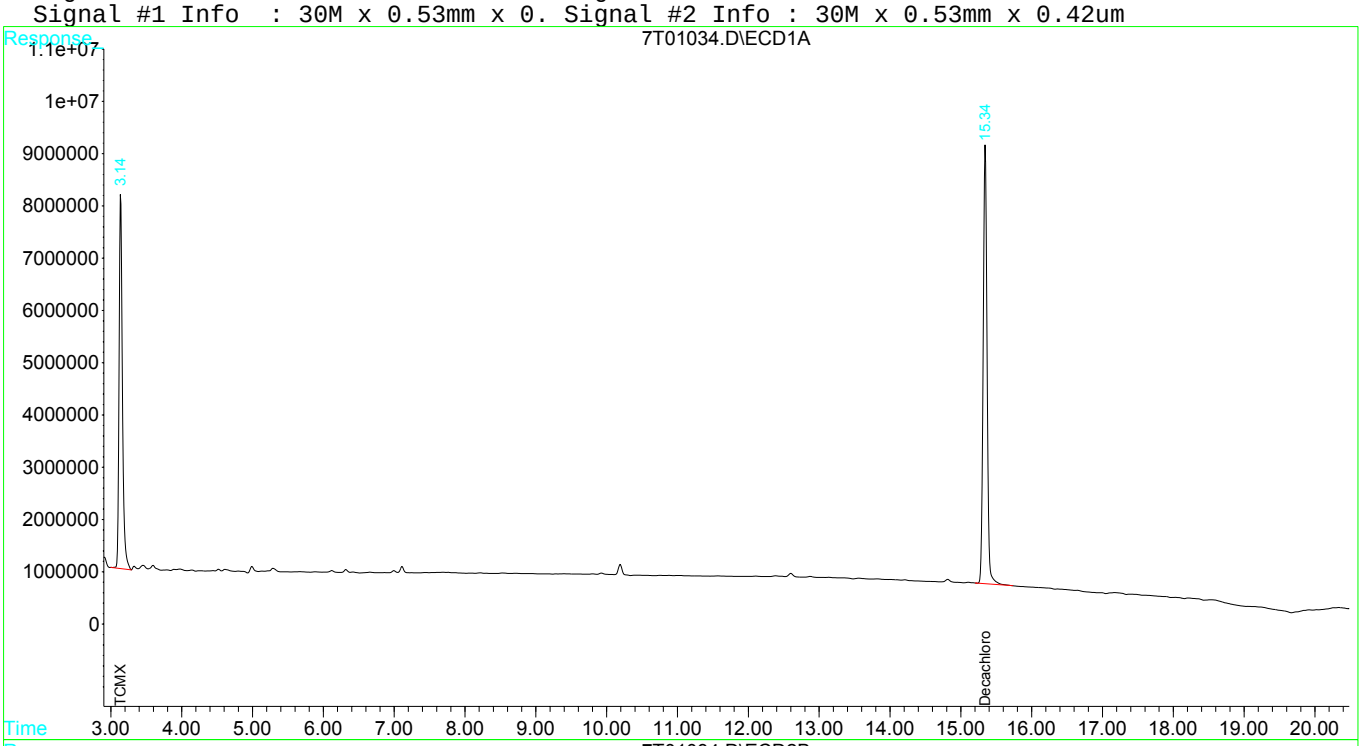
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
7T01034.D 80811012.M Mon Oct 15 11:18:17 2018 SS

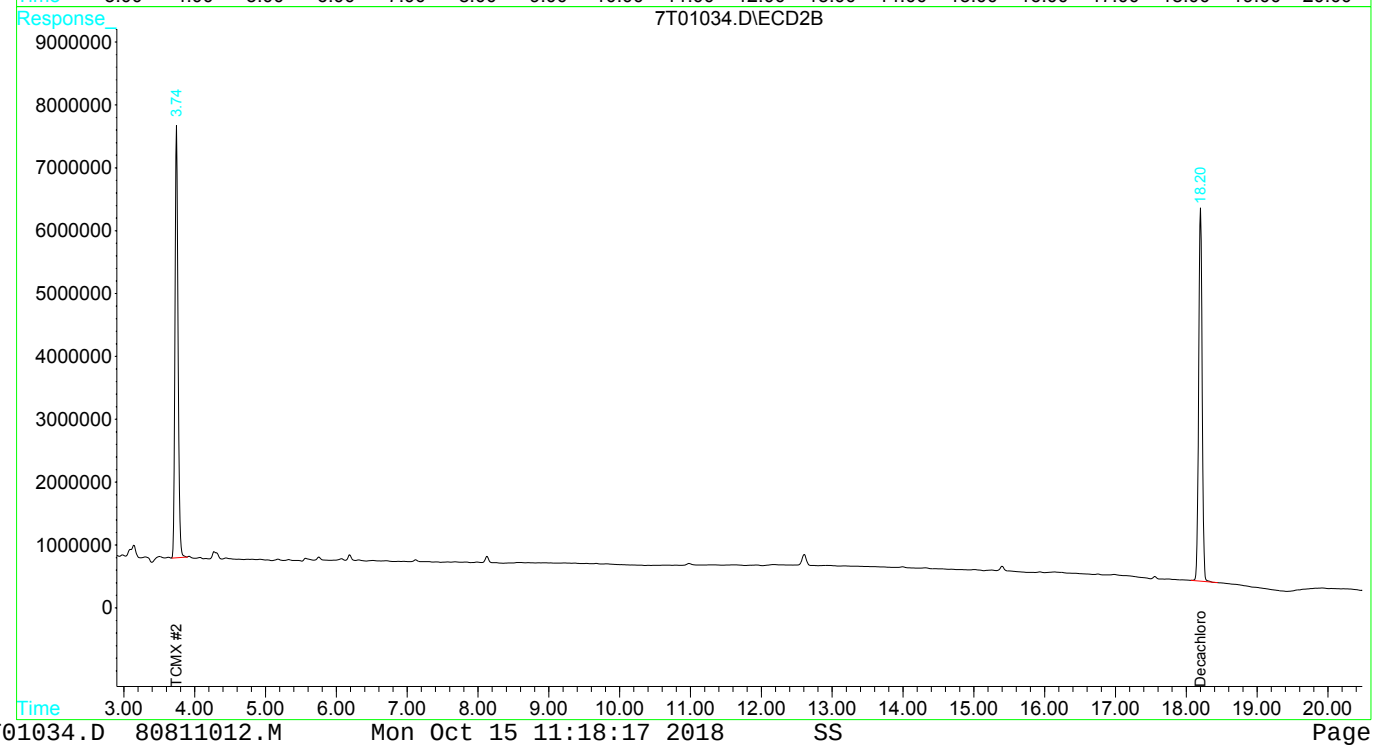
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD7\DATA\20181012\7T01034.D\ECD1A.CH Vial: 17
Signal #2 : G:\HPCHEM\GCECD7\DATA\20181012\7T01034.D\ECD2B.CH
Acq On : 12 Oct 2018 18:05 Operator: sdp
Sample : B8J1047-BLK1 Inst : GCECD-7
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 15 10:52 2018 Quant Results File: 80811012.RES

Quant Method : G:\HPCHEM\G...\80811012.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Mon Oct 15 10:51:09 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPEST.M

Volume Inj. : 2ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





ANALYSIS DATA SHEET

Pesticides - SW 846 8081B

Client: **Peak Environmental**
Client Sample ID: **NTP-1A**
Lab Sample ID: **8100452-01**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 16:45	File ID:	7T01004.D
Init/Final Vol:	15 g / 10 mL	Prep Batch:	B8J1047	Analyzed:	10/11/18 16:06
Dilution:	1	Matrix:	Soil	Sequence:	S8J1202
Percent Solids:	89.91	Prep Method:	Microwave Extraction		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
72-54-8	4,4'-DDD	ND	0.000875	0.00145	U
72-55-9	4,4'-DDE	ND	0.00102	0.00145	U
50-29-3	4,4'-DDT	ND	0.000694	0.00145	U
309-00-2	Aldrin	ND	0.000898	0.00145	U
319-84-6	alpha-BHC	ND	0.000559	0.00145	U
319-85-7	beta-BHC	ND	0.00142	0.00145	U
57-74-9	Chlordane	ND	0.000971	0.00145	U
319-86-8	delta-BHC	ND	0.00112	0.00145	U
60-57-1	Dieldrin	ND	0.000779	0.00145	U
959-98-8	Endosulfan I	ND	0.00100	0.00145	U
33213-65-9	Endosulfan II	ND	0.000786	0.00145	U
1031-07-8	Endosulfan sulfate	ND	0.000786	0.00145	U
72-20-8	Endrin	ND	0.000742	0.00145	U
7421-93-4	Endrin aldehyde	ND	0.000617	0.00145	U
53494-70-5	Endrin ketone	ND	0.000882	0.00145	U
58-89-9	gamma-BHC (Lindane)	ND	0.000661	0.00145	U
76-44-8	Heptachlor	ND	0.000845	0.00145	U
1024-57-3	Heptachlor Epoxide	ND	0.000904	0.00145	U
72-43-5	Methoxychlor	ND	0.000920	0.00145	U
8001-35-2	Toxaphene	ND	0.0225	0.0734	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD7\DATA\20181011\7T01004.D\ECD1A.CH Vial: 6
Signal #2 : G:\HPCHEM\GCECD7\DATA\20181011\7T01004.D\ECD2B.CH
Acq On : 11 Oct 2018 16:06 Operator: sdp
Sample : 8100452-01 Inst : GCECD-7
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 17:53 2018 Quant Results File: 80810806.RES

Quant Method : G:\HPCHEM\G...\80810806.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Thu Oct 11 15:28:30 2018
Response via : Initial Calibration
DataAcq Meth : RUNPEST.M

Volume Inj. : 2ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
System Monitoring Compounds						
1) S TCMX	3.14	3.74	226.0E6	200.0E6	56.297	53.185
Spiked Amount 50.000	Range 43 - 129		Recovery =		112.59%	106.37%
20) S Decachlorobiphen	15.34	18.20	268.3E6	189.7E6	52.160m	46.656
Spiked Amount 50.000	Range 42 - 136		Recovery =		104.32%	93.31%
Target Compounds						
Sum Chlordane (gamma)			0	0	N.D.	N.D.
Average Chlordane (gamma)					0.000	0.000
Sum Toxaphene (1)			0	0	N.D.	N.D.
Average Toxaphene (1)					0.000	0.000

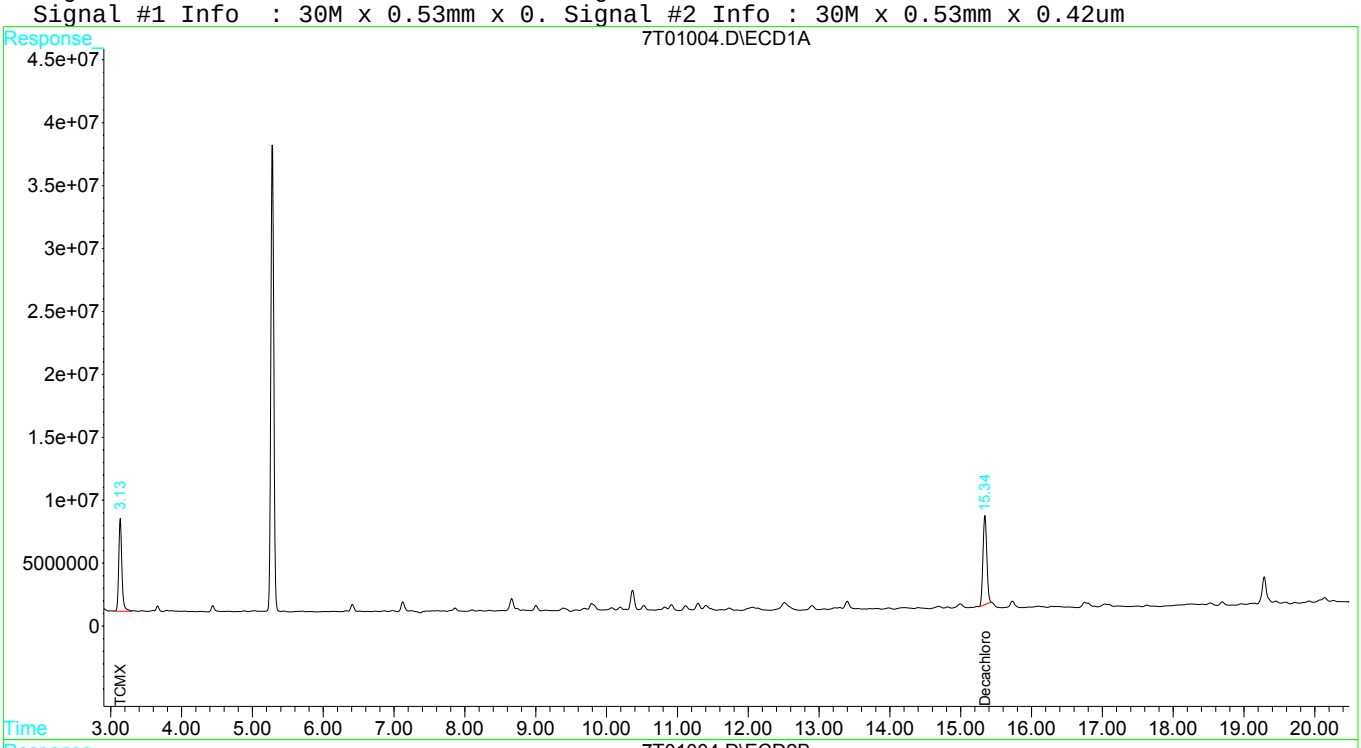
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
7T01004.D 80810806.M Fri Oct 12 10:05:58 2018 SS

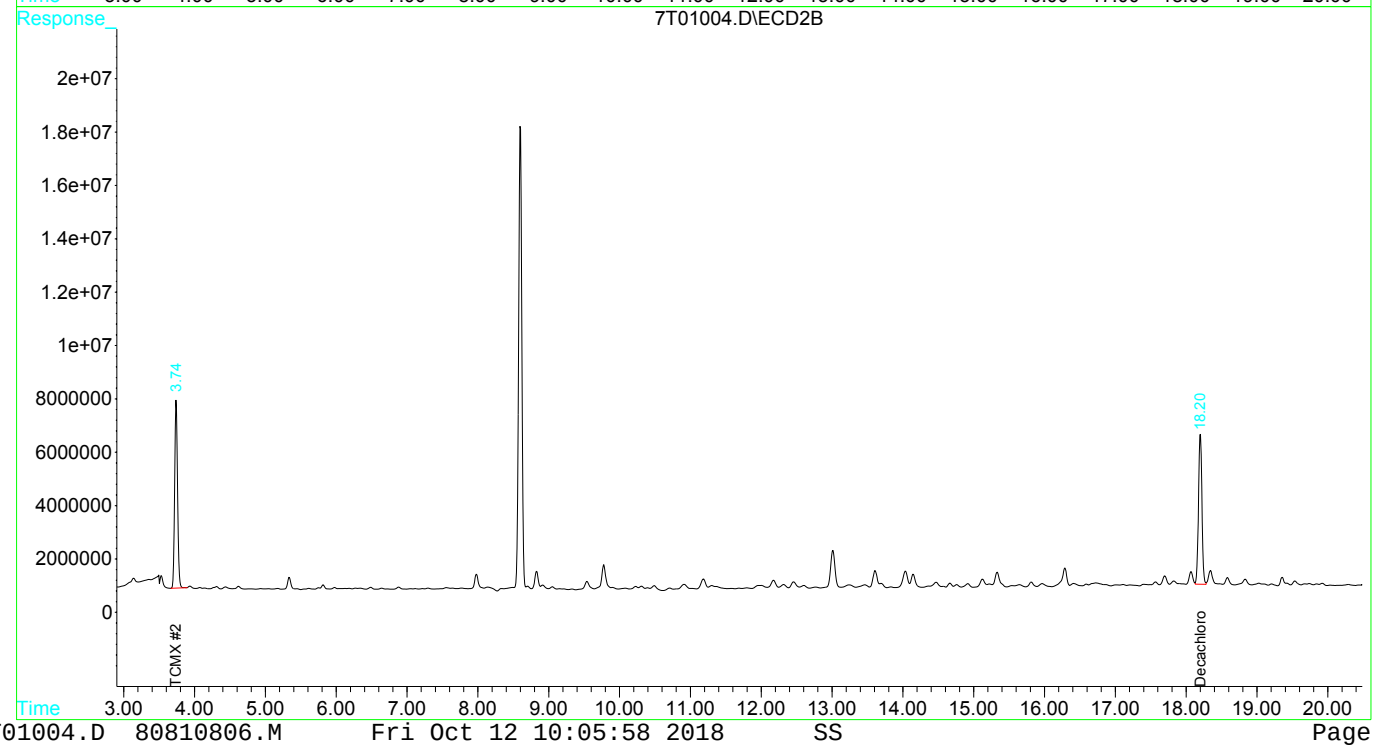
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD7\DATA\20181011\7T01004.D\ECD1A.CH Vial: 6
Signal #2 : G:\HPCHEM\GCECD7\DATA\20181011\7T01004.D\ECD2B.CH
Acq On : 11 Oct 2018 16:06 Operator: sdp
Sample : 8100452-01 Inst : GCECD-7
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 17:53 2018 Quant Results File: 80810806.RES

Quant Method : G:\HPCHEM\G...\80810806.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Thu Oct 11 15:28:30 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPEST.M

Volume Inj. : 2ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





ANALYSIS DATA SHEET

Pesticides - SW 846 8081B

Client: **Peak Environmental**
Client Sample ID: **NTP-6**
Lab Sample ID: **8100452-06**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:50	Prep Date:	10/10/18 16:45	File ID:	7T01005.D
Init/Final Vol:	15 g / 10 mL	Prep Batch:	B8J1047	Analyzed:	10/11/18 16:29
Dilution:	1	Matrix:	Soil	Sequence:	S8J1202
Percent Solids:	87.70	Prep Method:	Microwave Extraction		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
72-54-8	4,4'-DDD	ND	0.000897	0.00148	U
72-55-9	4,4'-DDE	ND	0.00105	0.00148	U
50-29-3	4,4'-DDT	ND	0.000711	0.00148	U
309-00-2	Aldrin	ND	0.000920	0.00148	U
319-84-6	alpha-BHC	ND	0.000574	0.00148	U
319-85-7	beta-BHC	ND	0.00146	0.00148	U
57-74-9	Chlordane	ND	0.000995	0.00148	U
319-86-8	delta-BHC	ND	0.00115	0.00148	U
60-57-1	Dieldrin	ND	0.000798	0.00148	U
959-98-8	Endosulfan I	ND	0.00103	0.00148	U
33213-65-9	Endosulfan II	ND	0.000806	0.00148	U
1031-07-8	Endosulfan sulfate	ND	0.000806	0.00148	U
72-20-8	Endrin	ND	0.000761	0.00148	U
7421-93-4	Endrin aldehyde	ND	0.000633	0.00148	U
53494-70-5	Endrin ketone	ND	0.000904	0.00148	U
58-89-9	gamma-BHC (Lindane)	ND	0.000677	0.00148	U
76-44-8	Heptachlor	ND	0.000867	0.00148	U
1024-57-3	Heptachlor Epoxide	ND	0.000927	0.00148	U
72-43-5	Methoxychlor	ND	0.000943	0.00148	U
8001-35-2	Toxaphene	ND	0.0230	0.0753	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD7\DATA\20181011\7T01005.D\ECD1A.CH Vial: 7
Signal #2 : G:\HPCHEM\GCECD7\DATA\20181011\7T01005.D\ECD2B.CH
Acq On : 11 Oct 2018 16:29 Operator: sdp
Sample : 8100452-06 Inst : GCECD-7
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 17:51 2018 Quant Results File: 80810806.RES

Quant Method : G:\HPCHEM\G...\80810806.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Thu Oct 11 15:28:30 2018
Response via : Initial Calibration
DataAcq Meth : RUNPEST.M

Volume Inj. : 2ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
System Monitoring Compounds						
1) S TCMX	3.14	3.74	224.1E6	195.4E6	55.817	51.962
Spiked Amount 50.000	Range 43 - 129		Recovery =		111.63%	103.92%
20) S Decachlorobiphen	15.34	18.20	280.5E6	187.5E6	54.540	46.111
Spiked Amount 50.000	Range 42 - 136		Recovery =		109.08%	92.22%
Target Compounds						
Sum Chlordane (gamma)			0	0	N.D.	N.D.
Average Chlordane (gamma)					0.000	0.000
Sum Toxaphene (1)			0	0	N.D.	N.D.
Average Toxaphene (1)					0.000	0.000

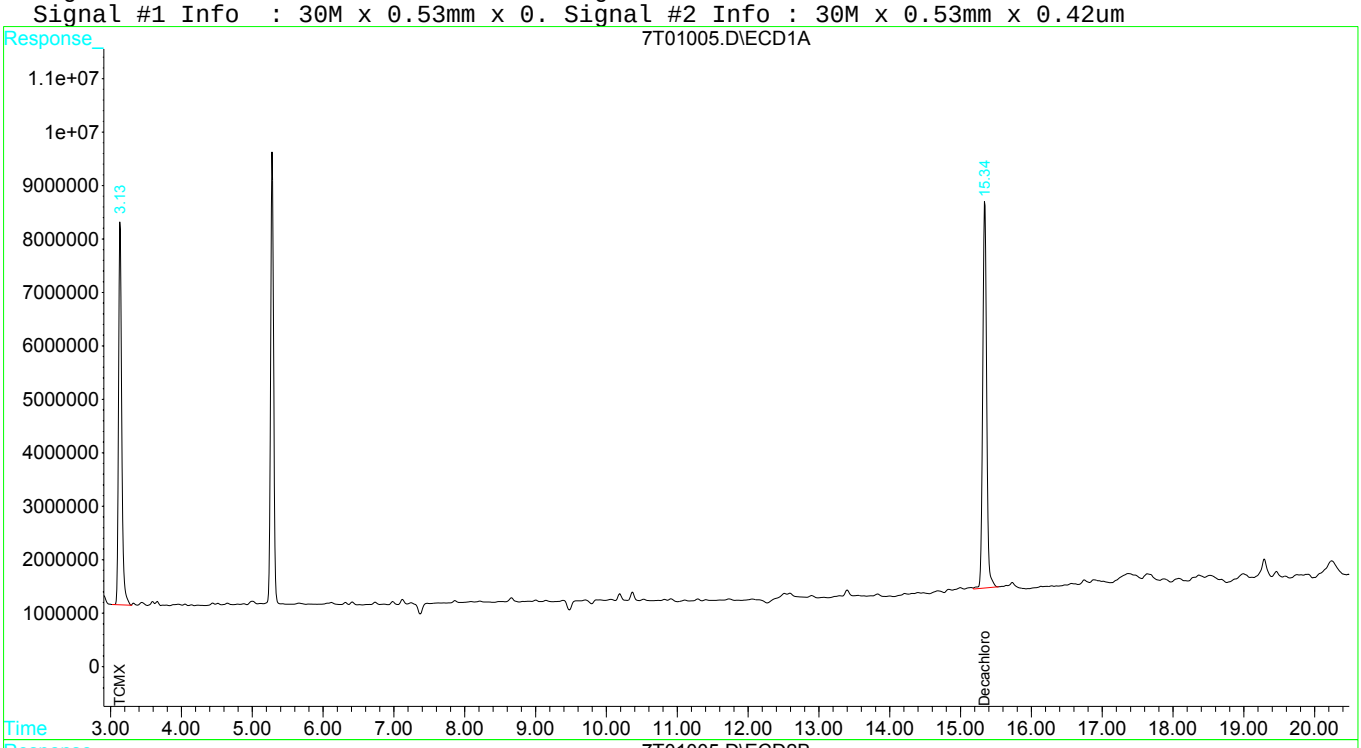
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
7T01005.D 80810806.M Fri Oct 12 10:05:59 2018 SS Page 1

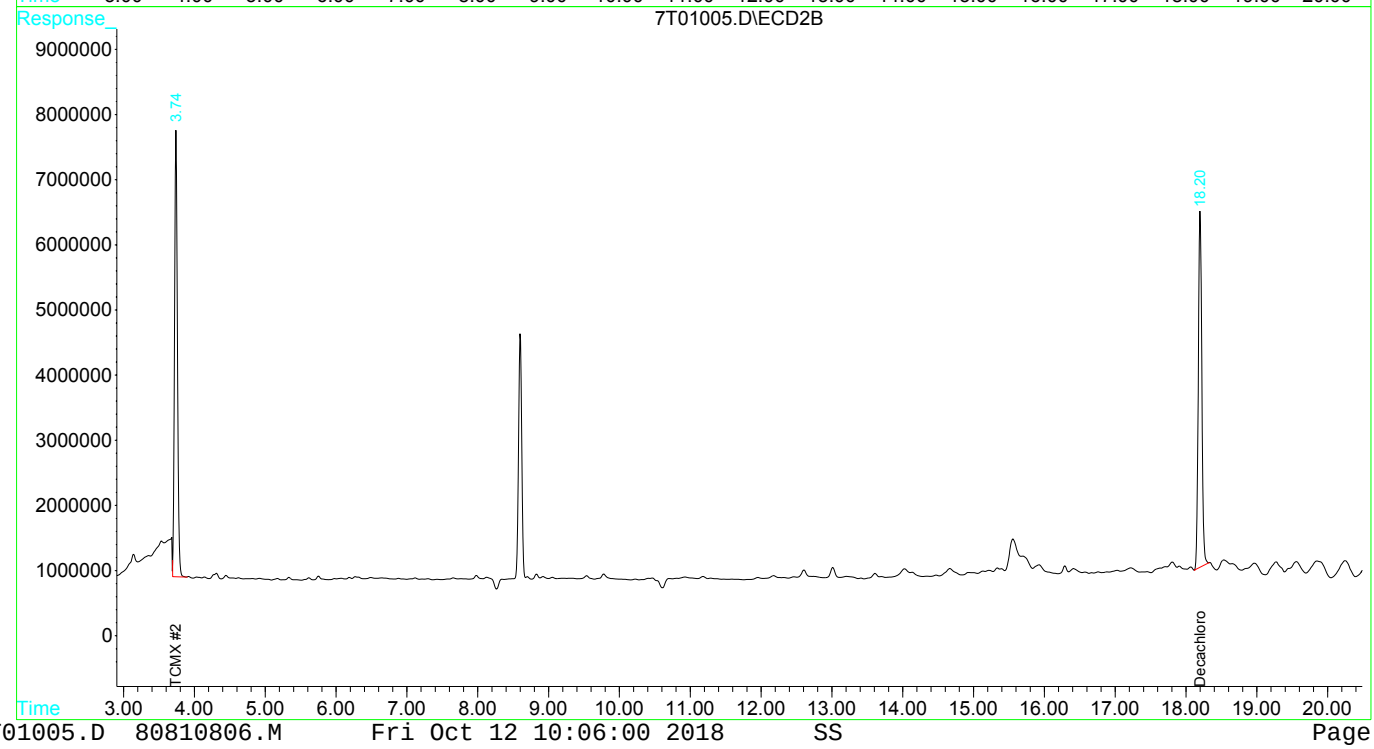
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD7\DATA\20181011\7T01005.D\ECD1A.CH Vial: 7
Signal #2 : G:\HPCHEM\GCECD7\DATA\20181011\7T01005.D\ECD2B.CH
Acq On : 11 Oct 2018 16:29 Operator: sdp
Sample : 8100452-06 Inst : GCECD-7
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 17:51 2018 Quant Results File: 80810806.RES

Quant Method : G:\HPCHEM\G...\80810806.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Thu Oct 11 15:28:30 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPEST.M

Volume Inj. : 2ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





ANALYSIS DATA SHEET

Pesticides - SW 846 8081B

Client: **Peak Environmental**
Client Sample ID: **STP-4B**
Lab Sample ID: **8100452-12**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 16:45	File ID:	7T01006.D
Init/Final Vol:	15 g / 10 mL	Prep Batch:	B8J1047	Analyzed:	10/11/18 16:51
Dilution:	1	Matrix:	Soil	Sequence:	S8J1202
Percent Solids:	91.70	Prep Method:	Microwave Extraction		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
72-54-8	4,4'-DDD	ND	0.000858	0.00142	U
72-55-9	4,4'-DDE	ND	0.00100	0.00142	U
50-29-3	4,4'-DDT	ND	0.000681	0.00142	U
309-00-2	Aldrin	ND	0.000880	0.00142	U
319-84-6	alpha-BHC	ND	0.000549	0.00142	U
319-85-7	beta-BHC	ND	0.00140	0.00142	U
57-74-9	Chlordane	0.0103	0.000952	0.00142	
319-86-8	delta-BHC	ND	0.00110	0.00142	U
60-57-1	Dieldrin	ND	0.000763	0.00142	U
959-98-8	Endosulfan I	ND	0.000981	0.00142	U
33213-65-9	Endosulfan II	ND	0.000771	0.00142	U
1031-07-8	Endosulfan sulfate	ND	0.000771	0.00142	U
72-20-8	Endrin	ND	0.000727	0.00142	U
7421-93-4	Endrin aldehyde	ND	0.000605	0.00142	U
53494-70-5	Endrin ketone	ND	0.000865	0.00142	U
58-89-9	gamma-BHC (Lindane)	ND	0.000648	0.00142	U
76-44-8	Heptachlor	ND	0.000829	0.00142	U
1024-57-3	Heptachlor Epoxide	ND	0.000887	0.00142	U
72-43-5	Methoxychlor	ND	0.000902	0.00142	U
8001-35-2	Toxaphene	ND	0.0220	0.0720	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD7\DATA\20181011\7T01006.D\ECD1A.CH Vial: 8
Signal #2 : G:\HPCHEM\GCECD7\DATA\20181011\7T01006.D\ECD2B.CH
Acq On : 11 Oct 2018 16:51 Operator: sdp
Sample : 8100452-12 Inst : GCECD-7
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 17:58 2018 Quant Results File: 80810806.RES

Quant Method : G:\HPCHEM\G...\80810806.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Thu Oct 11 15:28:30 2018
Response via : Initial Calibration
DataAcq Meth : RUNPEST.M

Volume Inj. : 2ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
System Monitoring Compounds						
1) S TCMX	3.14	3.75	239.5E6	213.7E6	59.656	56.836
Spiked Amount 50.000	Range 43 - 129		Recovery =		119.31%	113.67%
20) S Decachlorobiphen	15.34	18.20	281.7E6	191.5E6	54.755m	47.076
Spiked Amount 50.000	Range 42 - 136		Recovery =		109.51%	94.15%
Target Compounds						
21) L1 Chlordane (gamma	6.98	8.70	30174757	23287349	6.157	5.468
22) L1 Chlordane (alpha	7.24f	9.06	38651343	17308403	8.014m	4.082 #
Sum Chlordane (gamma)			68826100	40595752	14.171	9.550
Average Chlordane (gamma)					7.086	4.775
Sum Toxaphene (1)			0	0	N.D.	N.D.
Average Toxaphene (1)					0.000	0.000

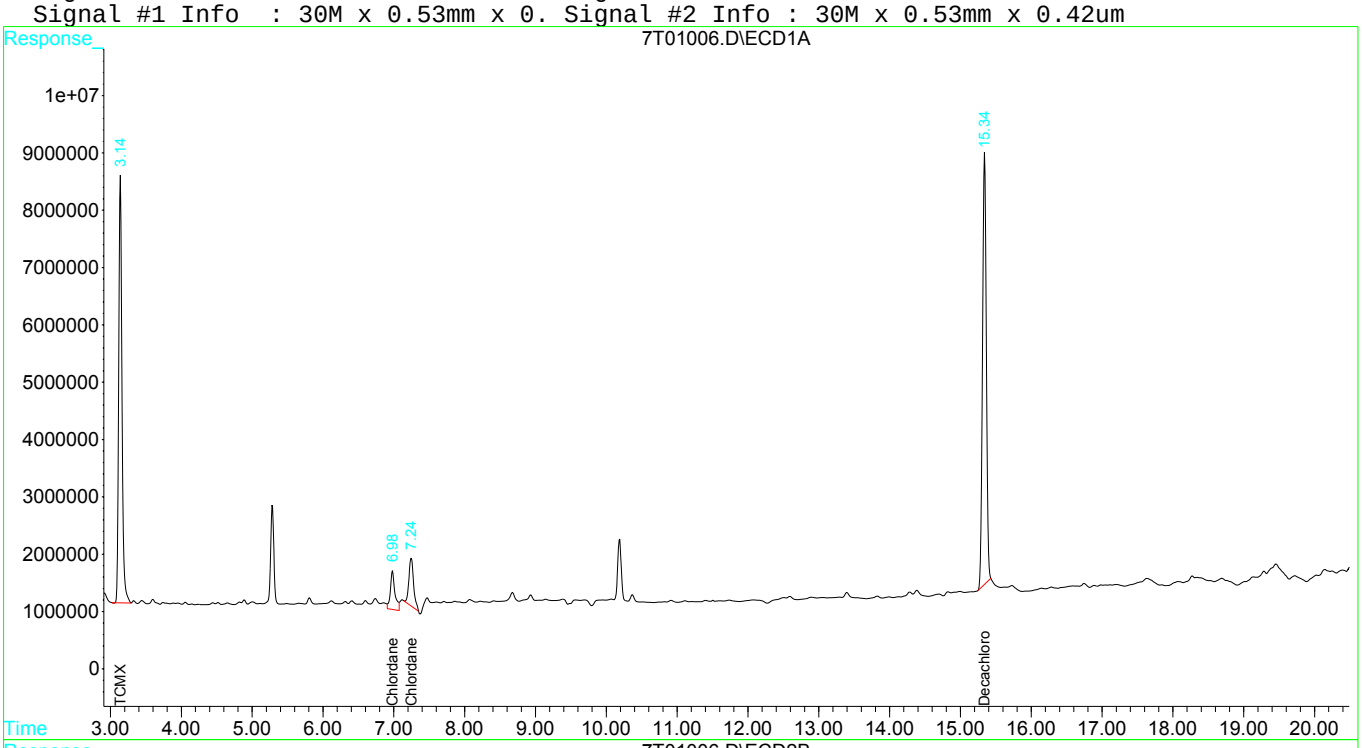
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
7T01006.D 80810806.M Fri Oct 12 10:06:01 2018 SS

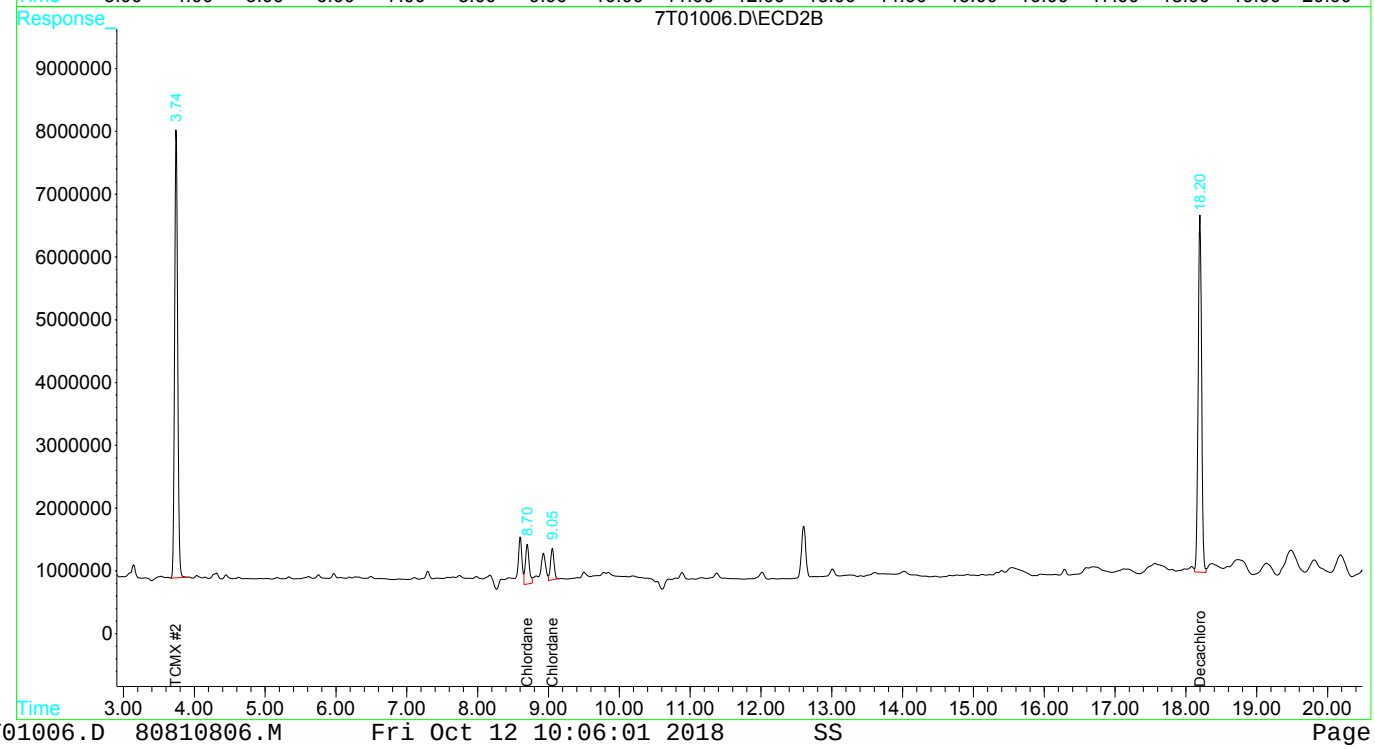
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD7\DATA\20181011\7T01006.D\ECD1A.CH Vial: 8
Signal #2 : G:\HPCHEM\GCECD7\DATA\20181011\7T01006.D\ECD2B.CH
Acq On : 11 Oct 2018 16:51 Operator: sdp
Sample : 8100452-12 Inst : GCECD-7
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 17:58 2018 Quant Results File: 80810806.RES

Quant Method : G:\HPCHEM\G...\80810806.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Thu Oct 11 15:28:30 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPEST.M

Volume Inj. : 2ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





ANALYSIS DATA SHEET

Pesticides - SW 846 8081B

Client: **Peak Environmental**
Client Sample ID: **STP-7**
Lab Sample ID: **8100452-14**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 16:45	File ID:	7T01007.D
Init/Final Vol:	15 g / 10 mL	Prep Batch:	B8J1047	Analyzed:	10/11/18 17:14
Dilution:	1	Matrix:	Soil	Sequence:	S8J1202
Percent Solids:	92.94	Prep Method:	Microwave Extraction		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
72-54-8	4,4'-DDD	ND	0.000847	0.00140	U
72-55-9	4,4'-DDE	ND	0.000990	0.00140	U
50-29-3	4,4'-DDT [2C]	0.00928	0.000586	0.00140	
309-00-2	Aldrin	ND	0.000868	0.00140	U
319-84-6	alpha-BHC	ND	0.000541	0.00140	U
319-85-7	beta-BHC	ND	0.00138	0.00140	U
57-74-9	Chlordane	0.0136	0.000939	0.00140	
319-86-8	delta-BHC	ND	0.00108	0.00140	U
60-57-1	Dieldrin	ND	0.000753	0.00140	U
959-98-8	Endosulfan I	ND	0.000968	0.00140	U
33213-65-9	Endosulfan II	ND	0.000761	0.00140	U
1031-07-8	Endosulfan sulfate	ND	0.000761	0.00140	U
72-20-8	Endrin	ND	0.000718	0.00140	U
7421-93-4	Endrin aldehyde	ND	0.000597	0.00140	U
53494-70-5	Endrin ketone	ND	0.000853	0.00140	U
58-89-9	gamma-BHC (Lindane)	ND	0.000639	0.00140	U
76-44-8	Heptachlor	ND	0.000818	0.00140	U
1024-57-3	Heptachlor Epoxide	ND	0.000875	0.00140	U
72-43-5	Methoxychlor	ND	0.000890	0.00140	U
8001-35-2	Toxaphene	ND	0.0217	0.0710	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD7\DATA\20181011\7T01007.D\ECD1A.CH Vial: 9
Signal #2 : G:\HPCHEM\GCECD7\DATA\20181011\7T01007.D\ECD2B.CH
Acq On : 11 Oct 2018 17:14 Operator: sdp
Sample : 8100452-14 Inst : GCECD-7
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 17:57 2018 Quant Results File: 80810806.RES

Quant Method : G:\HPCHEM\G...\80810806.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Thu Oct 11 15:28:30 2018
Response via : Initial Calibration
DataAcq Meth : RUNPEST.M

Volume Inj. : 2ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
System Monitoring Compounds						
1) S TCMX	3.14	3.75	238.7E6	221.1E6	59.464m	58.818
Spiked Amount 50.000	Range 43 - 129		Recovery =		118.93%	117.64%
20) S Decachlorobiphen	15.34	18.20	291.8E6	203.7E6	56.724m	50.087
Spiked Amount 50.000	Range 42 - 136		Recovery =		113.45%	100.17%
Target Compounds						
15) M 4,4'-DDT	9.48	12.02	30161373	38863152	7.794	12.942m#
21) L1 Chlordane (gamma	6.98	8.71	39449677	27879066	8.050	6.546
22) L1 Chlordane (alpha	7.26	9.06	52527887	30940546	10.891m	7.297 #
Sum Chlordane (gamma)			91977564	58819613	18.941	13.843
Average Chlordane (gamma)					9.471	6.921
Sum Toxaphene (1)			0	0	N.D.	N.D.
Average Toxaphene (1)					0.000	0.000

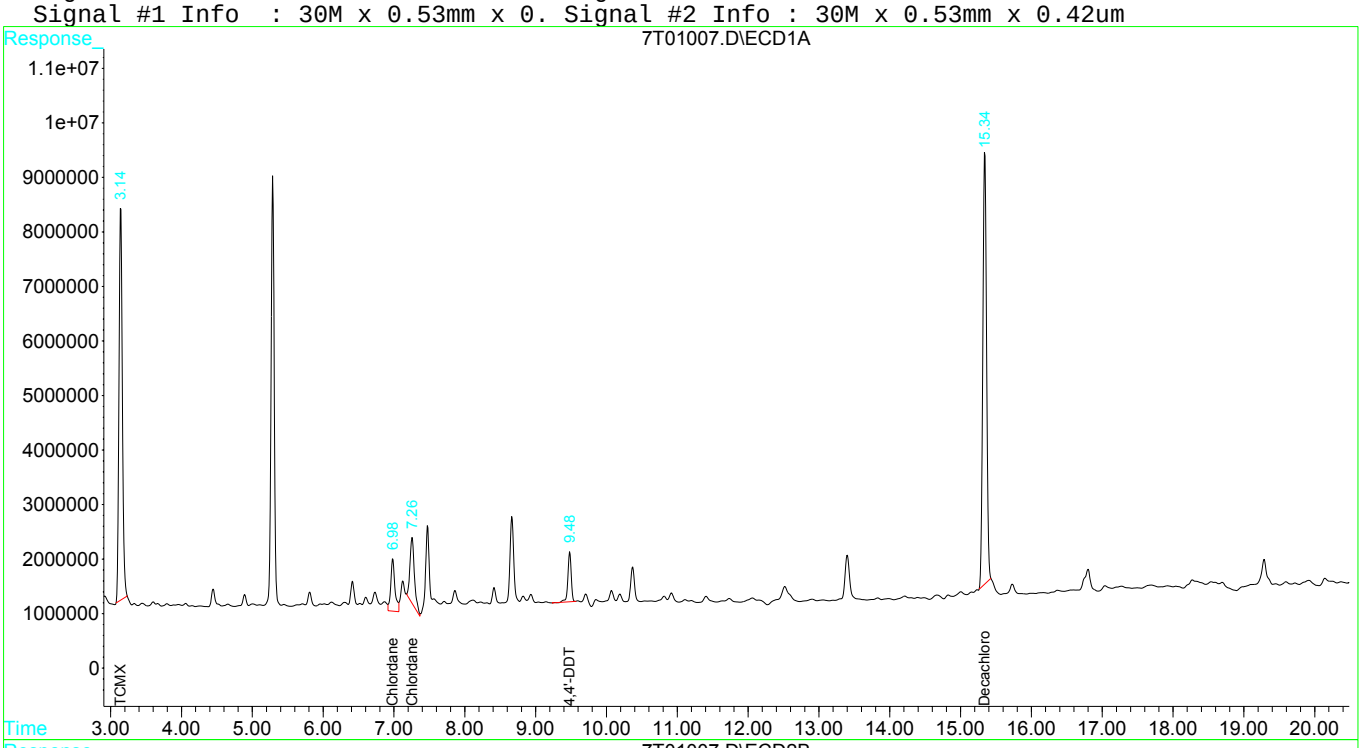
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
7T01007.D 80810806.M Fri Oct 12 10:06:03 2018 SS Page 1

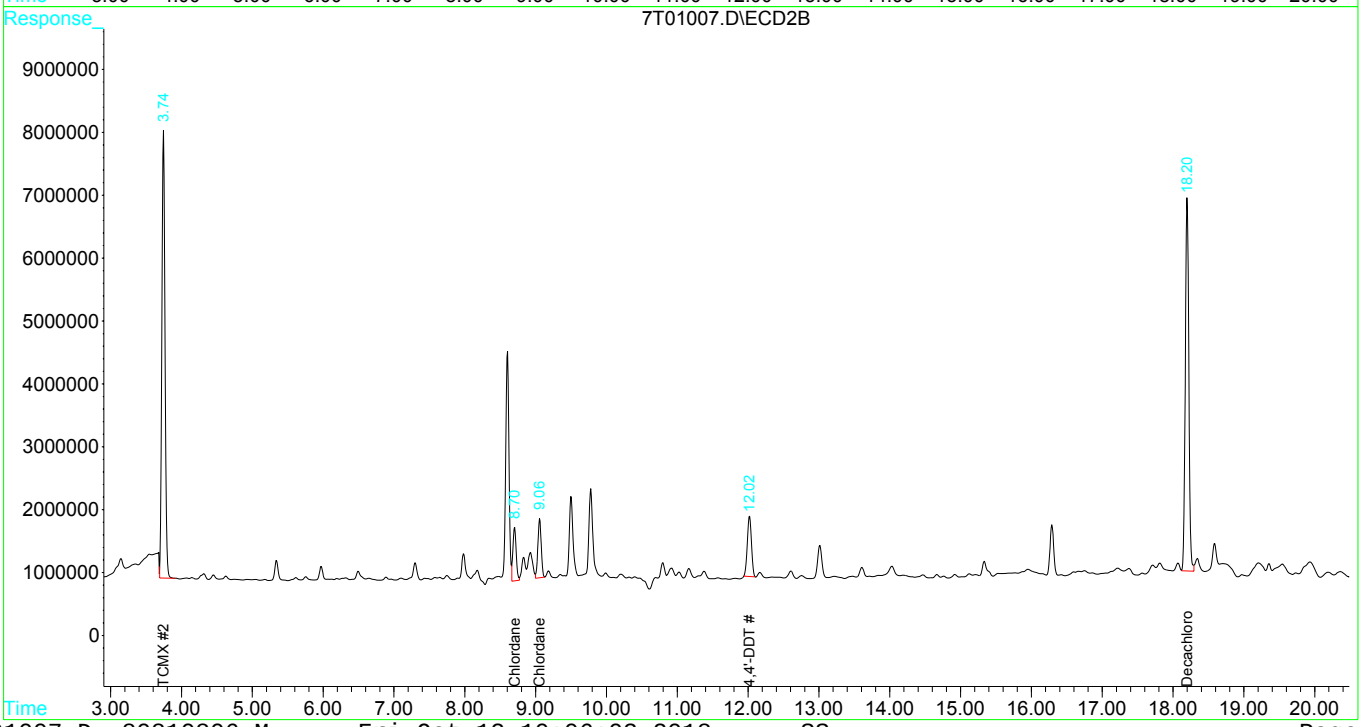
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD7\DATA\20181011\7T01007.D\ECD1A.CH Vial: 9
Signal #2 : G:\HPCHEM\GCECD7\DATA\20181011\7T01007.D\ECD2B.CH
Acq On : 11 Oct 2018 17:14 Operator: sdp
Sample : 8100452-14 Inst : GCECD-7
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 17:57 2018 Quant Results File: 80810806.RES

Quant Method : G:\HPCHEM\G...\80810806.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Thu Oct 11 15:28:30 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPEST.M

Volume Inj. : 2ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





SURROGATE RECOVERIES

Analysis Class: PESTICIDES

Matrix: Soil **Method:** SW 846 8081B

Pesticides

Lab Number	File ID	TCMX	DCB	TCMX[2C]	DCB[2C]
8100452-01	7T01004.D	113	104	106	93.3
8100452-06	7T01005.D	112	109	104	92.2
8100452-12	7T01006.D	119	110	114	94.2
8100452-14	7T01007.D	119	113	118	100
B8J1047-BLK1	7T01034.D	108	105	101	105
B8J1047-BS1	7T01035.D	103	102	96.3	102
B8J1047-MS1	7T01018.D	97.6	112	104	95.2
B8J1047-MSD1	7T01019.D	97.2	115	105	89.4

Surrogate Limits		Lo Limit	Hi Limit
TCMX	Tetrachloro-m-xylene	41.8	136
DCB	Decachlorobiphenyl	43.1	129
TCMX[2C]	Tetrachloro-m-xylene [2C]	41.8	136
DCB[2C]	Decachlorobiphenyl [2C]	43.1	129

F-II

* - Outside of QC Limits

Batch B8J1047 **Method: SW 846 8081B** **Prepared: 10/10/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1047-BS1		4,4'-DDD	0.0386	mg/kg wet	0.0333		116	91.1-141		
B8J1047-BS1		4,4'-DDE	0.0375	mg/kg wet	0.0333		113	98.2-139		
B8J1047-BS1		4,4'-DDT	0.0390	mg/kg wet	0.0333		117	23.3-144		
B8J1047-BS1		Aldrin	0.0384	mg/kg wet	0.0333		115	75-130		
B8J1047-BS1		alpha-BHC	0.0387	mg/kg wet	0.0333		116	74.3-132		
B8J1047-BS1		beta-BHC	0.0386	mg/kg wet	0.0333		116	76.9-128		
B8J1047-BS1		delta-BHC	0.0395	mg/kg wet	0.0333		118	61-155		
B8J1047-BS1		Dieldrin	0.0385	mg/kg wet	0.0333		115	74.9-130		
B8J1047-BS1		Endosulfan I	0.0375	mg/kg wet	0.0333		113	60.8-126		
B8J1047-BS1		Endosulfan II	0.0365	mg/kg wet	0.0333		110	72.7-125		
B8J1047-BS1		Endosulfan sulfate	0.0340	mg/kg wet	0.0333		102	63.7-128		
B8J1047-BS1		Endrin	0.0392	mg/kg wet	0.0333		118	77.7-141		
B8J1047-BS1		Endrin aldehyde	0.0329	mg/kg wet	0.0333		98.6	57.7-113		
B8J1047-BS1		Endrin ketone	0.0349	mg/kg wet	0.0333		105	64.1-133		
B8J1047-BS1		gamma-BHC (Lindane)	0.0386	mg/kg wet	0.0333		116	74-133		
B8J1047-BS1		Heptachlor	0.0376	mg/kg wet	0.0333		113	74.4-132		
B8J1047-BS1		Heptachlor Epoxide	0.0358	mg/kg wet	0.0333		108	75.2-127		
B8J1047-BS1		Methoxychlor	0.0362	mg/kg wet	0.0333		109	37.4-147		

Batch B8J1047 (cont.) **Method: SW 846 8081B** **Prepared: 10/10/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1047-MS1	8100408-01	4,4'-DDD	0.0542	mg/kg dry	0.0406	ND	134	56.4-168		
B8J1047-MS1	8100408-01	4,4'-DDE	0.0454	mg/kg dry	0.0406	ND	112	67.4-153		
B8J1047-MS1	8100408-01	4,4'-DDT	0.0256	mg/kg dry	0.0406	ND	63.1	15-117		
B8J1047-MS1	8100408-01	Aldrin	0.0485	mg/kg dry	0.0406	ND	119	49.4-130		
B8J1047-MS1	8100408-01	alpha-BHC	0.0597	mg/kg dry	0.0406	ND	147*	48.9-139		
B8J1047-MS1	8100408-01	beta-BHC	0.0464	mg/kg dry	0.0406	ND	114	43.1-140		
B8J1047-MS1	8100408-01	delta-BHC	0.0575	mg/kg dry	0.0406	ND	142	36.1-164		
B8J1047-MS1	8100408-01	Dieldrin	0.0461	mg/kg dry	0.0406	ND	114	55.1-122		
B8J1047-MS1	8100408-01	Endosulfan I	0.0441	mg/kg dry	0.0406	ND	109	42.1-110		
B8J1047-MS1	8100408-01	Endosulfan II	0.0411	mg/kg dry	0.0406	ND	101	46.9-119		
B8J1047-MS1	8100408-01	Endosulfan sulfate	0.0397	mg/kg dry	0.0406	ND	97.9	24.6-139		
B8J1047-MS1	8100408-01	Endrin	0.0546	mg/kg dry	0.0406	ND	135	40.4-139		
B8J1047-MS1	8100408-01	Endrin aldehyde	0.0285	mg/kg dry	0.0406	ND	70.2	36.3-126		
B8J1047-MS1	8100408-01	Endrin ketone	0.0428	mg/kg dry	0.0406	ND	105	15-149		
B8J1047-MS1	8100408-01	gamma-BHC (Lindane)	0.0675	mg/kg dry	0.0406	ND	166*	32.3-140		
B8J1047-MS1	8100408-01	Heptachlor	0.0428	mg/kg dry	0.0406	ND	105	15-147		
B8J1047-MS1	8100408-01	Heptachlor Epoxide	0.0469	mg/kg dry	0.0406	ND	116	49-121		
B8J1047-MS1	8100408-01	Methoxychlor	0.0378	mg/kg dry	0.0406	ND	93.0	15-122		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Batch B8J1047 (cont.) **Method: SW 846 8081B** **Prepared: 10/10/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1047-MSD1	8100408-01	4,4'-DDD	0.0549	mg/kg dry	0.0406	ND	135	56.4-168	1.22	30
B8J1047-MSD1	8100408-01	4,4'-DDE	0.0459	mg/kg dry	0.0406	ND	113	67.4-153	1.05	30
B8J1047-MSD1	8100408-01	4,4'-DDT	0.0253	mg/kg dry	0.0406	ND	62.4	15-117	1.21	30
B8J1047-MSD1	8100408-01	Aldrin	0.0486	mg/kg dry	0.0406	ND	120	49.4-130	0.184	30
B8J1047-MSD1	8100408-01	alpha-BHC	0.0599	mg/kg dry	0.0406	ND	148*	48.9-139	0.448	30
B8J1047-MSD1	8100408-01	beta-BHC	0.0526	mg/kg dry	0.0406	ND	130	43.1-140	12.5	30
B8J1047-MSD1	8100408-01	delta-BHC	0.0546	mg/kg dry	0.0406	ND	135	36.1-164	5.09	30
B8J1047-MSD1	8100408-01	Dieldrin	0.0465	mg/kg dry	0.0406	ND	114	55.1-122	0.754	30
B8J1047-MSD1	8100408-01	Endosulfan I	0.0445	mg/kg dry	0.0406	ND	110	42.1-110	1.04	30
B8J1047-MSD1	8100408-01	Endosulfan II	0.0413	mg/kg dry	0.0406	ND	102	46.9-119	0.394	30
B8J1047-MSD1	8100408-01	Endosulfan sulfate	0.0398	mg/kg dry	0.0406	ND	98.0	24.6-139	0.0613	30
B8J1047-MSD1	8100408-01	Endrin	0.0549	mg/kg dry	0.0406	ND	135	40.4-139	0.475	30
B8J1047-MSD1	8100408-01	Endrin aldehyde	0.0287	mg/kg dry	0.0406	ND	70.7	36.3-126	0.681	30
B8J1047-MSD1	8100408-01	Endrin ketone	0.0424	mg/kg dry	0.0406	ND	104	15-149	0.896	30
B8J1047-MSD1	8100408-01	gamma-BHC (Lindane)	0.0487	mg/kg dry	0.0406	ND	120	32.3-140	32.4*	30
B8J1047-MSD1	8100408-01	Heptachlor	0.0549	mg/kg dry	0.0406	ND	135	15-147	24.7	30
B8J1047-MSD1	8100408-01	Heptachlor Epoxide	0.0471	mg/kg dry	0.0406	ND	116	49-121	0.501	30
B8J1047-MSD1	8100408-01	Methoxychlor	0.0377	mg/kg dry	0.0406	ND	92.8	15-122	0.258	30

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

F-III NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

METHOD BLANK SUMMARY

Batch ID: **B8J1047**

Lab Number	Sample Id	Extraction Date	Analysis Date
B8J1047-BLK1	BLK1	10/10/2018	10/12/2018 18:05
B8J1047-BS1	BS1	10/10/2018	10/12/2018 18:27
B8J1047-MS1	MS1	10/10/2018	10/11/2018 21:24
B8J1047-MSD1	MSD1	10/10/2018	10/11/2018 21:47
8100452-01	NTP-1A	10/10/2018	10/11/2018 16:06
8100452-06	NTP-6	10/10/2018	10/11/2018 16:29
8100452-12	STP-4B	10/10/2018	10/11/2018 16:51
8100452-14	STP-7	10/10/2018	10/11/2018 17:14

SURROGATE RT DRIFT REPORT

Analysis Class: PESTICIDES

Sequence : S8J1202

		TCMX			DCB			TCMX[2C]			DCB[2C]		
Lab Number	File ID	RT	Ref RT	Drift	RT	Ref RT	Drift	RT	Ref RT	Drift	RT	Ref RT	Drift
8100452-01	7T01004.D	3.14	3.14	0.00	15.34	15.35	-0.01	3.74	3.74	0.00	18.2	18.2	0.00
8100452-06	7T01005.D	3.14	3.14	0.00	15.34	15.35	-0.01	3.74	3.74	0.00	18.2	18.2	0.00
8100452-12	7T01006.D	3.14	3.14	0.00	15.34	15.35	-0.01	3.75	3.74	0.01	18.2	18.2	0.00
8100452-14	7T01007.D	3.14	3.14	0.00	15.34	15.35	-0.01	3.75	3.74	0.01	18.2	18.2	0.00
B8J1047-MS1	7T01018.D	3.14	3.14	0.00	15.34	15.35	-0.01	3.74	3.74	0.00	18.2	18.2	0.00
B8J1047-MSD1	7T01019.D	3.15	3.14	0.01	15.34	15.35	-0.01	3.75	3.74	0.01	18.2	18.2	0.00

Sequence : S8J1503

		TCMX			DCB			TCMX[2C]			DCB[2C]		
Lab Number	File ID	RT	Ref RT	Drift	RT	Ref RT	Drift	RT	Ref RT	Drift	RT	Ref RT	Drift
B8J1047-BLK1	7T01034.D	3.14	3.14	0.00	15.35	15.34	0.01	3.75	3.74	0.01	18.2	18.2	0.00
B8J1047-BS1	7T01035.D	3.14	3.14	0.00	15.34	15.34	0.00	3.75	3.74	0.01	18.2	18.2	0.00

Surrogate		Limit
TCMX	Tetrachloro-m-xylene	0.10
DCB	Decachlorobiphenyl	0.10
TCMX[2C]	Tetrachloro-m-xylene [2C]	0.10
DCB[2C]	Decachlorobiphenyl [2C]	0.10

DISS = Dissolved Analysis

F-V

Response Factor Report GCECD-7

Method : G:\HPCHEM\GCECD7\METHODS\80810806.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Mon Aug 06 17:06:26 2018

Calibration Files
2 =7T00005.D 5 =7T00006.D 10 =7T00007.D
25 =7T00008.D 50 =7T00009.D 100 =7T00010.D

		Compound	2	5	10	25	50	100	Avg		%RSD
1)	S	TCMX	4.045	4.005	4.067	4.008	3.906	4.055	4.014	E6	1.46
2)		alpha-BHC	4.499	4.881	5.144	5.638	5.948	6.630	5.456	E6	14.19
3)	M	gamma-BHC (Lindane)	4.257	4.697	4.878	5.214	5.422	6.026	5.082	E6	12.11
4)	M	Heptachlor	4.914	5.123	5.058	5.167	5.321	5.895	5.246	E6	6.57
5)		beta-BHC	2.561	2.548	2.459	2.387	2.361	2.530	2.474	E6	3.46
6)		delta-BHC	4.622	4.691	4.951	5.178	5.496	6.097	5.172	E6	10.74
7)	M	Aldrin	4.374	4.626	4.630	4.865	5.092	5.679	4.877	E6	9.47
8)		Heptachlor epoxide	4.902	4.713	4.618	4.629	4.714	5.189	4.794	E6	4.56
9)		Endosulfan I	4.345	4.478	4.418	4.455	4.547	5.008	4.542	E6	5.24
10)		4,4'-DDE	3.997	4.195	4.191	4.381	4.543	5.119	4.404	E6	9.00
11)	M	Dieldrin	4.308	4.479	4.524	4.678	4.852	5.417	4.710	E6	8.34
12)	M	Endrin	3.818	3.959	3.952	4.060	4.207	4.727	4.121	E6	7.86
13)		4,4'-DDD	3.146	3.332	3.343	3.488	3.641	4.129	3.513	E6	9.80
14)		Endosulfan II	4.378	4.408	4.517	4.426	4.437	4.772	4.490	E6	3.25
15)	M	4,4'-DDT	3.880	3.724	3.692	3.731	3.851	4.340	3.870	E6	6.26
16)		Endrin aldehyde	3.629	3.952	4.116	4.121	4.097	3.960	3.979	E6	4.72
17)		Endosulfan sulfate	4.673	4.260	4.349	4.187	4.173	4.311	4.325	E6	4.24
18)		Methoxychlor	2.123	2.082	2.003	1.985	1.960	2.050	2.034	E6	3.07
19)		Endrin ketone	4.904	4.877	5.092	5.060	5.044	5.236	5.035	E6	2.61
20)	S	Decachlorobiphenyl	6.135	5.425	5.055	4.807	4.644	4.797	5.144	E6	10.83
21)	L1	Chlordane (gamma)	4.778	4.801	4.718	4.768	4.902	5.437	4.901	E6	5.50
22)	L1	Chlordane (alpha)	4.615	4.799	4.704	4.718	4.805	5.295	4.823	E6	5.01
23)	L2	Toxaphene (1)							0.000	0	-1.00

Signal #2 Calibration Files
2 =7T00005.D 5 =7T00006.D 10 =7T00007.D
25 =7T00008.D 50 =7T00009.D 100 =7T00010.D

		Compound	2	5	10	25	50	100	Avg		%RSD
1)	S	TCMX	4.327	3.849	3.718	3.614	3.466	3.585	3.760	E6	8.15
2)		alpha-BHC	4.264	4.551	4.790	5.235	5.445	6.094	5.063	E6	13.14
3)	M	gamma-BHC (Lindane)	4.229	4.354	4.531	4.781	4.967	5.500	4.727	E6	9.85
4)	M	Heptachlor	5.085	4.763	4.624	4.650	4.772	5.317	4.868	E6	5.63
5)		beta-BHC	2.616	2.438	2.312	2.219	2.175	2.274	2.339	E6	6.96
6)		delta-BHC	4.260	4.200	4.452	4.691	4.951	5.529	4.681	E6	10.70
7)	M	Aldrin	4.188	4.263	4.235	4.352	4.497	5.011	4.424	E6	6.95
8)		Heptachlor epoxide	4.124	4.189	4.141	4.134	4.183	4.607	4.230	E6	4.41
9)		Endosulfan I	4.007	4.015	3.890	3.844	3.865	4.217	3.973	E6	3.51
10)		4,4'-DDE	3.791	3.736	3.669	3.745	3.854	4.328	3.854	E6	6.24
11)	M	Dieldrin	3.975	4.096	4.052	4.086	4.163	4.646	4.170	E6	5.79
12)	M	Endrin	3.641	3.587	3.497	3.504	3.619	4.058	3.651	E6	5.70
13)		4,4'-DDD	3.560	3.241	3.103	3.117	3.182	3.542	3.291	E6	6.31
14)		Endosulfan II	4.357	4.116	4.085	3.890	3.838	4.052	4.056	E6	4.54
15)	M	4,4'-DDT	3.304	2.799	2.715	2.843	2.963	3.395	3.003	E6	9.37
16)		Endrin aldehyde	3.975	3.582	3.628	3.576	3.471	3.312	3.591	E6	6.12
17)		Endosulfan sulfate	4.236	3.935	3.913	3.734	3.683	3.759	3.877	E6	5.23
18)		Methoxychlor	1.892	1.722	1.677	1.650	1.636	1.726	1.717	E6	5.42
19)		Endrin ketone	4.161	4.065	4.206	4.127	4.158	4.290	4.168	E6	1.82
20)	S	Decachlorobiphenyl	4.556	4.448	4.139	3.826	3.657	3.776	4.067	E6	9.21
21)	L1	Chlordane (gamma)	4.141	4.238	4.156	4.142	4.215	4.660	4.259	E6	4.71
22)	L1	Chlordane (alpha)	4.404	4.243	4.163	4.079	4.093	4.462	4.240	E6	3.80
23)	L2	Toxaphene (1)							0.000	0	-1.00

(#) = Out of Range

Compound List Report GCECD-7

Method : G:\HPCHEM\GCECD7\METHODS\80810806.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Mon Aug 06 17:06:26 2018
Response via : Initial Calibration
Total Cpnds : 47

PK#	Type	Compound Name	Exp_RT	Rel_RT	Cal	A/H	ID
1	S	TCMX	3.15	1.000	A	A	B
2		alpha-BHC	3.83	1.000	A	A	B
3	M	gamma-BHC (Lindane)	4.28	1.000	A	A	B
4	M	Heptachlor	5.05	1.000	A	A	B
5		beta-BHC	4.41	1.000	A	A	B
6		delta-BHC	4.69	1.000	A	A	B
7	M	Aldrin	5.58	1.000	A	A	B
8		Heptachlor epoxide	6.76	1.000	A	A	B
9		Endosulfan I	7.58	1.000	A	A	B
10		4,4'-DDE	7.51	1.000	A	A	B
11	M	Dieldrin	8.10	1.000	A	A	B
12	M	Endrin	8.62	1.000	A	A	B
13		4,4'-DDD	8.86	1.000	A	A	B
14		Endosulfan II	9.13	1.000	A	A	B
15	M	4,4'-DDT	9.52	1.000	A	A	B
16		Endrin aldehyde	10.15	1.000	A	A	B
17		Endosulfan sulfate	11.33	1.000	A	A	B
18		Methoxychlor	10.83	1.000	A	A	B
19		Endrin ketone	12.16	1.000	A	A	B
20	S	Decachlorobiphenyl	15.38	1.000	A	A	B
21	L1	Chlordane (gamma)	7.01	1.000	A	A	B
22	L1	Chlordane (alpha)	7.29	1.000	A	A	B
23	L2	Toxaphene (1)	11.16	1.000	A	A	R
24		Signal #2	35.00	1.000	A	A	B
25	S	TCMX #2	3.78	1.000	A	A	B
26		alpha-BHC #2	4.77	1.000	A	A	B
27	M	gamma-BHC (Lindane) #2	5.44	1.000	A	A	B
28	M	Heptachlor #2	6.34	1.000	A	A	B
29		beta-BHC #2	5.58	1.000	A	A	B
30		delta-BHC #2	6.19	1.000	A	A	B
31	M	Aldrin #2	7.04	1.000	A	A	B
32		Heptachlor epoxide #2	8.35	1.000	A	A	B
33		Endosulfan I #2	9.28	1.000	A	A	B
34		4,4'-DDE #2	9.60	1.000	A	A	B
35	M	Dieldrin #2	9.96	1.000	A	A	B
36	M	Endrin #2	10.75	1.000	A	A	B
37		4,4'-DDD #2	11.15	1.000	A	A	B
38		Endosulfan II #2	11.37	1.000	A	A	B
39	M	4,4'-DDT #2	12.16	1.000	A	A	B
40		Endrin aldehyde #2	12.50	1.000	A	A	B
41		Endosulfan sulfate #2	13.39	1.000	A	A	B
42		Methoxychlor #2	14.42	1.000	A	A	B
43		Endrin ketone #2	14.94	1.000	A	A	B
44	S	Decachlorobiphenyl #2	18.31	1.000	A	A	B
45	L1	Chlordane (gamma) #2	8.80	1.000	A	A	B
46	L1	Chlordane (alpha) #2	9.15	1.000	A	A	B
47	L2	Toxaphene (1) #2	14.65	1.000	A	A	R

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

80810806.M Wed Aug 08 15:41:43 2018 SS

Response Factor Report GCECD-7

Method : G:\HPCHEM\GCECD7\METHODS\80811012.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Mon Oct 15 10:51:09 2018

Calibration Files
2 =7T01026.D 5 =7T01027.D 10 =7T01028.D
25 =7T01023.D 50 =7T01024.D 100 =7T01025.D

		Compound	2	5	10	25	50	100	Avg		%RSD
1)	S	TCMX	4.033	4.390	4.433	4.420	4.198	4.425	4.317	E6	3.82
2)		alpha-BHC	4.681	5.207	5.398	6.049	6.306	7.209	5.808	E6	15.53
3)	M	gamma-BHC (Lindane)	4.557	4.999	5.123	5.592	5.740	6.521	5.422	E6	12.65
4)	M	Heptachlor	5.638	5.959	5.755	5.935	5.964	6.690	5.990	E6	6.13
5)		beta-BHC	2.631	2.672	2.603	2.613	2.491	2.756	2.628	E6	3.31
6)		delta-BHC	4.676	5.031	5.221	5.593	5.883	6.751	5.526	E6	13.28
7)	M	Aldrin	4.718	5.147	5.071	5.319	5.506	6.274	5.339	E6	9.90
8)		Heptachlor epoxide	5.481	5.389	5.122	5.109	5.111	5.655	5.311	E6	4.37
9)		Endosulfan I	4.788	5.161	4.998	5.088	5.098	5.662	5.133	E6	5.65
10)		4,4'-DDE	4.788	5.161	4.998	5.088	5.098	5.662	5.133	E6	5.65
11)	M	Dieldrin	4.483	4.878	4.835	4.970	5.079	5.890	5.023	E6	9.36
12)	M	Endrin	4.286	4.557	4.500	4.712	4.798	5.486	4.723	E6	8.76
13)		4,4'-DDD	3.476	3.694	3.677	3.773	3.927	4.599	3.858	E6	10.15
14)		Endosulfan II	4.589	4.867	4.969	4.915	4.859	5.321	4.920	E6	4.80
15)	M	4,4'-DDT	3.669	3.907	3.921	4.091	4.248	4.978	4.136	E6	11.03
16)		Endrin aldehyde	4.377	4.519	4.661	4.569	4.472	4.673	4.545	E6	2.50
17)		Endosulfan sulfate	4.966	4.980	5.111	4.850	4.728	4.967	4.934	E6	2.64
18)		Methoxychlor	2.574	2.589	2.553	2.506	2.429	2.593	2.541	E6	2.48
19)		Endrin ketone	5.041	5.404	5.575	5.445	5.409	5.795	5.445	E6	4.54
20)	S	Decachlorobiphenyl	6.811	6.990	6.289	5.667	5.346	5.589	6.115	E6	11.21
21)	L1	Chlordane (gamma)	5.198	5.436	5.242	5.270	5.347	6.023	5.419	E6	5.67
22)	L1	Chlordane (alpha)	4.976	5.339	5.191	5.247	5.277	5.921	5.325	E6	5.96
23)	L2	Toxaphene (1)							0.000	0	-1.00

Signal #2 Calibration Files
2 =7T01026.D 5 =7T01027.D 10 =7T01028.D
25 =7T01023.D 50 =7T01024.D 100 =7T01025.D

		Compound	2	5	10	25	50	100	Avg		%RSD
1)	S	TCMX	4.878	4.229	4.007	3.866	3.609	3.760	4.058	E6	11.19
2)		alpha-BHC	4.974	5.424	5.555	5.886	5.905	6.555	5.717	E6	9.36
3)	M	gamma-BHC (Lindane)	4.797	5.148	5.217	5.402	5.390	5.951	5.318	E6	7.15
4)	M	Heptachlor	6.002	5.766	5.470	5.420	5.372	5.944	5.662	E6	4.90
5)		beta-BHC	2.928	2.771	2.607	2.437	2.326	2.452	2.587	E6	8.81
6)		delta-BHC	4.878	5.129	5.293	5.389	5.489	6.104	5.380	E6	7.70
7)	M	Aldrin	4.853	5.063	4.882	4.878	4.869	5.450	4.999	E6	4.68
8)		Heptachlor epoxide	4.850	5.102	4.873	4.695	4.600	5.036	4.859	E6	3.96
9)		Endosulfan I	4.980	5.068	4.836	4.565	4.473	4.898	4.803	E6	4.90
10)		4,4'-DDE	3.929	4.185	4.052	4.047	4.101	4.646	4.160	E6	6.07
11)	M	Dieldrin	4.691	4.877	4.723	4.590	4.535	5.056	4.745	E6	4.07
12)	M	Endrin	4.257	4.407	4.269	4.247	4.205	4.687	4.345	E6	4.16
13)		4,4'-DDD	4.270	3.968	3.755	3.551	3.522	3.930	3.833	E6	7.39
14)		Endosulfan II	4.723	4.761	4.763	4.352	4.166	4.427	4.532	E6	5.58
15)	M	4,4'-DDT	2.917	3.303	3.312	3.407	3.475	4.014	3.405	E6	10.44
16)		Endrin aldehyde	4.241	4.134	4.243	3.977	3.786	3.869	4.042	E6	4.80
17)		Endosulfan sulfate	4.893	4.748	4.717	4.259	4.062	4.173	4.475	E6	7.85
18)		Methoxychlor	2.152	2.251	2.158	2.053	1.984	2.100	2.116	E6	4.38
19)		Endrin ketone	4.585	4.858	4.972	4.595	4.506	4.733	4.708	E6	3.82
20)	S	Decachlorobiphenyl	4.482	4.380	3.971	3.486	3.274	3.404	3.833	E6	13.59
21)	L1	Chlordane (gamma)	4.856	5.047	4.814	4.634	4.589	5.073	4.835	E6	4.17
22)	L1	Chlordane (alpha)	4.980	5.068	4.836	4.565	4.473	4.898	4.803	E6	4.90
23)	L2	Toxaphene (1)							0.000	0	-1.00

(#) = Out of Range

Compound List Report GCECD-7

Method : G:\HPCHEM\GCECD7\METHODS\80811012.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Mon Oct 15 10:51:09 2018
Response via : Initial Calibration
Total Cpnds : 47

PK#	Type	Compound Name	Exp_RT	Rel_RT	Cal	A/H	ID
1	S	TCMX	3.14	1.000	A	A	B
2		alpha-BHC	3.81	1.000	A	A	B
3	M	gamma-BHC (Lindane)	4.27	1.000	A	A	B
4	M	Heptachlor	5.02	1.000	A	A	B
5		beta-BHC	4.39	1.000	A	A	B
6		delta-BHC	4.67	1.000	A	A	B
7	M	Aldrin	5.55	1.000	A	A	B
8		Heptachlor epoxide	6.73	1.000	A	A	B
9		Endosulfan I	7.54	1.000	A	A	B
10		4,4'-DDE	7.54	1.000	A	A	B
11	M	Dieldrin	8.07	1.000	A	A	B
12	M	Endrin	8.58	1.000	A	A	B
13		4,4'-DDD	8.82	1.000	A	A	B
14		Endosulfan II	9.10	1.000	A	A	B
15	M	4,4'-DDT	9.48	1.000	A	A	B
16		Endrin aldehyde	10.11	1.000	A	A	B
17		Endosulfan sulfate	11.28	1.000	A	A	B
18		Methoxychlor	10.79	1.000	A	A	B
19		Endrin ketone	12.11	1.000	A	A	B
20	S	Decachlorobiphenyl	15.34	1.000	A	A	B
21	L1	Chlordane (gamma)	6.98	1.000	A	A	B
22	L1	Chlordane (alpha)	7.26	1.000	A	A	B
23	L2	Toxaphene (1)	11.16	1.000	A	A	R
24		Signal #2	35.00	1.000	A	A	B
25	S	TCMX #2	3.74	1.000	A	A	B
26		alpha-BHC #2	4.72	1.000	A	A	B
27	M	gamma-BHC (Lindane) #2	5.37	1.000	A	A	B
28	M	Heptachlor #2	6.27	1.000	A	A	B
29		beta-BHC #2	5.52	1.000	A	A	B
30		delta-BHC #2	6.12	1.000	A	A	B
31	M	Aldrin #2	6.96	1.000	A	A	B
32		Heptachlor epoxide #2	8.26	1.000	A	A	B
33		Endosulfan I #2	9.06	1.000	A	A	B
34		4,4'-DDE #2	9.50	1.000	A	A	B
35	M	Dieldrin #2	9.86	1.000	A	A	B
36	M	Endrin #2	10.63	1.000	A	A	B
37		4,4'-DDD #2	11.03	1.000	A	A	B
38		Endosulfan II #2	11.25	1.000	A	A	B
39	M	4,4'-DDT #2	12.02	1.000	A	A	B
40		Endrin aldehyde #2	12.36	1.000	A	A	B
41		Endosulfan sulfate #2	13.26	1.000	A	A	B
42		Methoxychlor #2	14.29	1.000	A	A	B
43		Endrin ketone #2	14.81	1.000	A	A	B
44	S	Decachlorobiphenyl #2	18.20	1.000	A	A	B
45	L1	Chlordane (gamma) #2	8.70	1.000	A	A	B
46	L1	Chlordane (alpha) #2	9.06	1.000	A	A	B
47	L2	Toxaphene (1) #2	14.69	1.000	A	A	R

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

80811012.M Mon Oct 15 11:43:27 2018 SS

CALIBRATION VERIFICATION SUMMARY

Client: **Peak Environmental**
Work Order: **8100452**

Lab Sample ID (X50pp):	S8J1202-CCV1(1)	Init. Calib. Date(s):	08/06/2018
File ID:	7T01001.D	Date Analyzed:	10/11/2018 14:58
Pesticides	Column 1	Matrix:	Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Aldrin	05.57	05.47	05.67	4877459	4899942	0.50
alpha-BHC	03.82	03.72	03.92	5456497	5403858	1.00
alpha-Chlordane (cis)	07.28	07.18	07.38	4822852	4695952	2.60
beta-BHC	04.40	04.30	04.50	2474249	2265636	8.40
delta-BHC	04.69	04.59	04.79	5172184	5055150	2.30
Dieldrin	08.08	07.98	08.18	4709648	4418592	6.20
Endosulfan I	07.56	07.46	07.66	4541974	4600952	1.30
Endosulfan II	09.11	09.01	09.21	4489556	4140890	7.80
Endosulfan sulfate	11.30	11.20	11.40	4325451	3862356	10.70
Endrin	08.59	08.49	08.69	4120614	4351818	5.60
Endrin aldehyde	10.12	10.02	10.22	3979113	3387226	14.90
Endrin ketone	12.13	12.03	12.23	5035335	4704802	6.60
gamma-BHC (Lindane)	04.28	04.18	04.38	5082343	5136686	1.10
4,4'-DDT	09.50	09.40	09.60	3869625	3787356	2.10
4,4'-DDE	07.56	07.46	07.66	4404421	4600952	4.50
4,4'-DDD	08.84	08.74	08.94	3512994	3496960	0.50
Methoxychlor	10.80	10.70	10.90	2033945	2231690	9.70
Heptachlor Epoxide	06.74	06.64	06.84	4794081	4565794	4.80
Heptachlor	05.04	04.94	05.14	5246329	5236254	0.20
					Average %D:	4.78

* - Outside of QC limits

F-VII

CALIBRATION VERIFICATION SUMMARY

Client: **Peak Environmental**
Work Order: **8100452**

Lab Sample ID (X50pp):	S8J1202-CCV1(2)	Init. Calib. Date(s):	08/06/2018
File ID:	7T01001.D	Date Analyzed:	10/11/2018 14:58
Pesticides	Column 2	Matrix:	Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Aldrin [2C]	06.96	06.86	07.06	4424124	4460442	0.80
alpha-BHC [2C]	04.71	04.61	04.81	5063246	5193134	2.60
alpha-Chlordane (cis) [2C]	09.05	08.95	09.15	4240424	4000910	5.60
beta-BHC [2C]	05.51	05.41	05.61	2339061	2105140	10.00
delta-BHC [2C]	06.11	06.01	06.21	4680517	4850104	3.60
Dieldrin [2C]	09.85	09.75	09.95	4169666	4016782	3.70
Endosulfan I [2C]	09.05	08.95	09.15	3973062	4000910	0.70
Endosulfan II [2C]	11.24	11.14	11.34	4056479	3573708	11.90
Endosulfan sulfate [2C]	13.25	13.15	13.35	3876638	3371792	13.00
Endrin [2C]	10.63	10.53	10.73	3651053	3836088	5.10
Endrin aldehyde [2C]	12.35	12.25	12.45	3590744	2943654	18.00
Endrin ketone [2C]	14.81	14.71	14.91	4167805	3970844	4.70
gamma-BHC (Lindane) [2C]	05.37	05.27	05.47	4726962	4938496	4.50
4,4'-DDT [2C]	12.01	11.91	12.11	3002849	3151962	5.00
4,4'-DDE [2C]	09.50	09.40	09.60	3853824	3778712	1.90
4,4'-DDD [2C]	11.02	10.92	11.12	3290967	3164538	3.80
Methoxychlor [2C]	14.29	14.19	14.39	1717232	1844271	7.40
Heptachlor Epoxide [2C]	08.26	08.16	08.36	4229546	4141770	2.10
Heptachlor [2C]	06.26	06.16	06.36	4868319	4842704	0.50
					Average %D:	5.52

* - Outside of QC limits

F-VII

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD7\DATA\20181011\7T01001.D\ECD1A.CH Vial: 3
Signal #2 : G:\HPCHEM\GCECD7\DATA\20181011\7T01001.D\ECD2B.CH
Acq On : 11 Oct 2018 14:58 Operator: sdp
Sample : SEQ-CCV Inst : GCECD-7
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 15:26 2018 Quant Results File: 80810806.RES

Quant Method : G:\HPCHEM\G...\80810806.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Thu Oct 11 09:23:17 2018
Response via : Initial Calibration
DataAcq Meth : RUNPEST.M

Volume Inj. : 2ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
	System Monitoring Compounds						
1) S	TCMX	3.14	3.74	66826565	59120632	16.647	15.725
	Spiked Amount 50.000	Range 43 - 129		Recovery =		33.29%#	31.45%#
20) S	Decachlorobiphen	15.35	18.20	89341608	56240380	17.369	13.829
	Spiked Amount 50.000	Range 42 - 136		Recovery =		34.74%#	27.66%#
	Target Compounds						
2)	alpha-BHC	3.82	4.71	270.2E6	259.7E6	49.518	51.283
3) M	gamma-BHC (Linda	4.28	5.37	256.8E6	246.9E6	50.535	52.238
4) M	Heptachlor	5.04	6.26	261.8E6	242.1E6	49.904	49.737
5)	beta-BHC	4.40	5.51	113.3E6	105.3E6	45.784	45.000
6)	delta-BHC	4.69	6.11	252.8E6	242.5E6	48.869	51.812
7) M	Aldrin	5.57	6.96	245.0E6	223.0E6	50.230	50.410
8)	Heptachlor epoxi	6.74	8.26	228.3E6	207.1E6	47.619	48.962
9)	Endosulfan I	7.56	9.05	230.0E6	200.0E6	50.649	50.350
10)	4,4'-DDE	7.56	9.50	230.0E6	188.9E6	52.231	49.026
11) M	Dieldrin	8.08	9.85	220.9E6	200.8E6	46.910	48.167
12) M	Endrin	8.59	10.63	217.6E6	191.8E6	52.805	52.534
13)	4,4'-DDD	8.84	11.02	174.8E6	158.2E6	49.772	48.079
14)	Endosulfan II	9.11	11.24	207.0E6	178.7E6	46.117	44.049
15) M	4,4'-DDT	9.50	12.01	189.4E6	157.6E6	48.937	52.483
16)	Endrin aldehyde	10.12	12.35	169.4E6	147.2E6	42.563	40.989
17)	Endosulfan sulfa	11.30	13.25	193.1E6	168.6E6	44.647	43.489
18)	Methoxychlor	10.80	14.29	111.6E6	92213569	54.861	53.699
19)	Endrin ketone	12.13	14.81	235.2E6	198.5E6	46.718	47.637
21) L1	Chlordane (gamma	7.00	8.70	237.8E6	206.4E6	48.517	48.457
22) L1	Chlordane (alpha	7.28	9.05	234.8E6	200.0E6	48.684	47.176
	Sum Chlordane (gamma)			472.6E6	406.4E6	97.201	95.633
Average	Chlordane (gamma)					48.601	47.816
	Sum Toxaphene (1)			0	0	N.D.	N.D.
Average	Toxaphene (1)					0.000	0.000

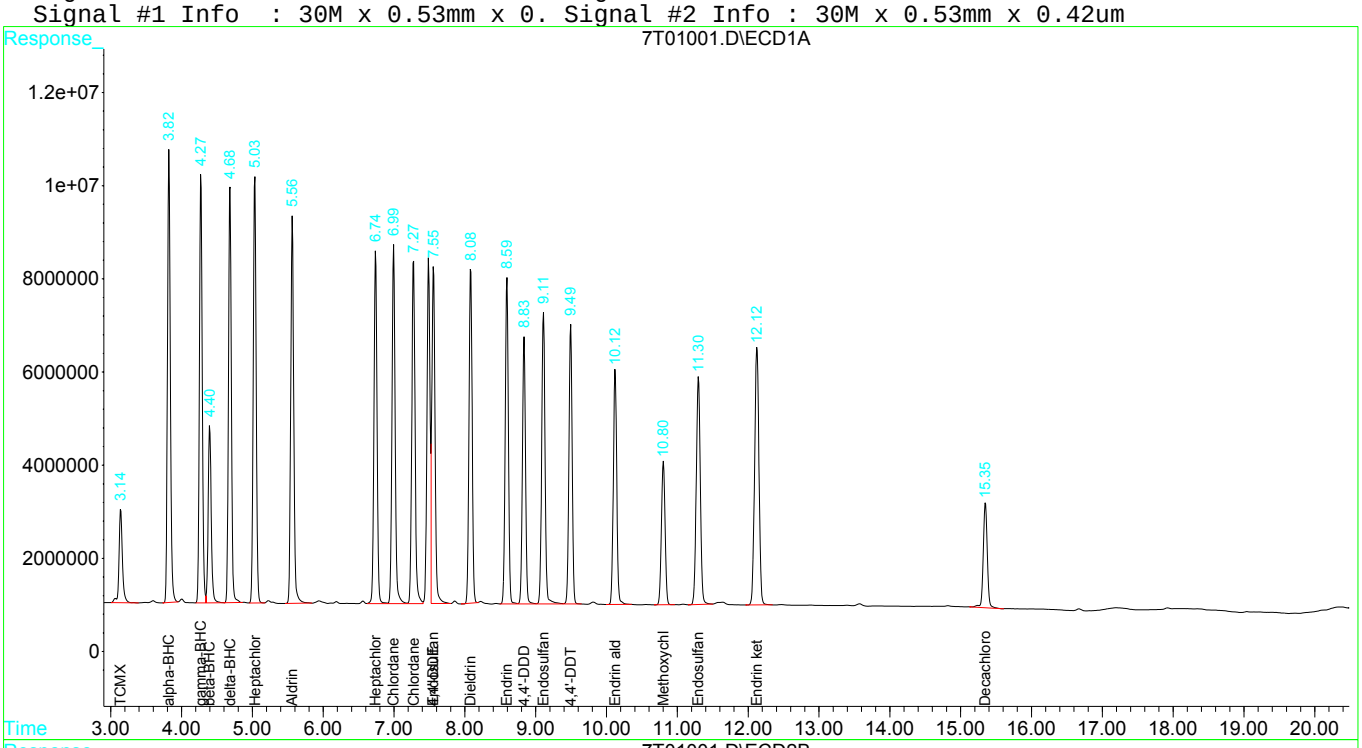
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
7T01001.D 80810806.M Fri Oct 12 10:05:53 2018 SS Page 1

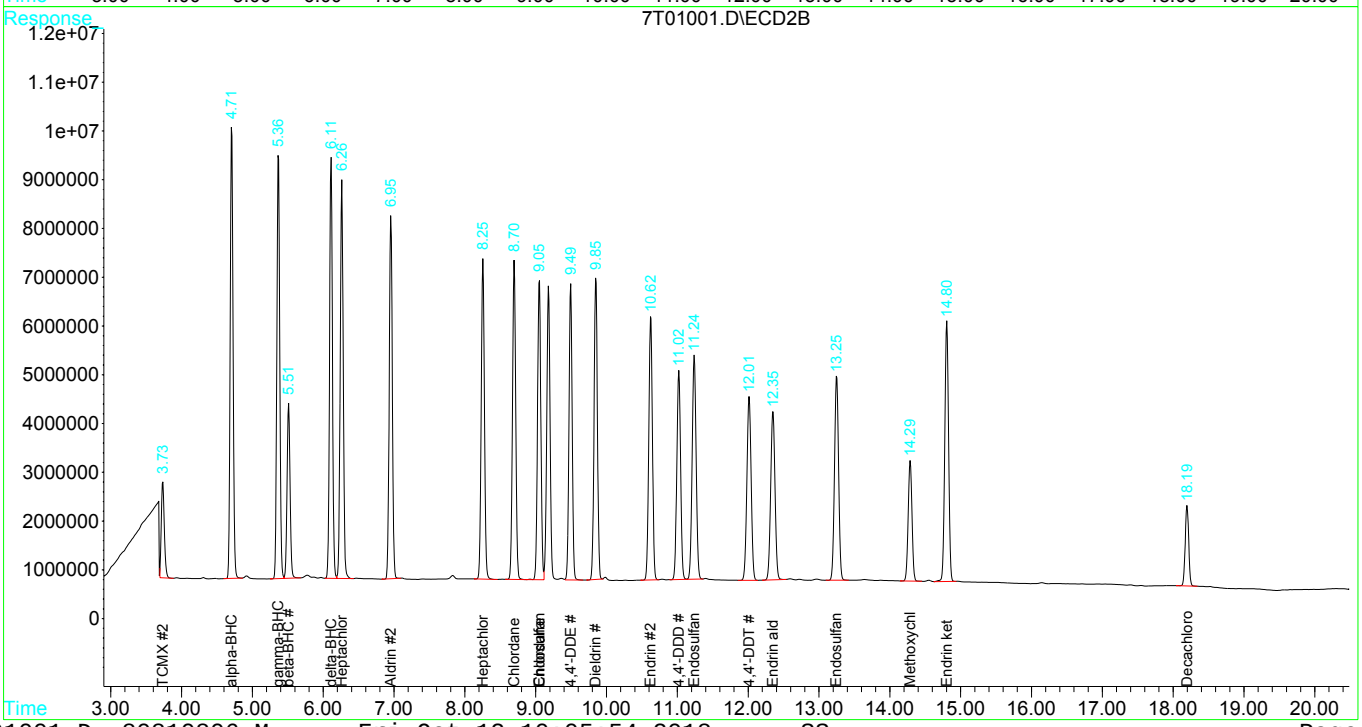
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD7\DATA\20181011\7T01001.D\ECD1A.CH Vial: 3
Signal #2 : G:\HPCHEM\GCECD7\DATA\20181011\7T01001.D\ECD2B.CH
Acq On : 11 Oct 2018 14:58 Operator: sdp
Sample : SEQ-CCV Inst : GCECD-7
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 15:26 2018 Quant Results File: 80810806.RES

Quant Method : G:\HPCHEM\G...\80810806.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Thu Oct 11 09:23:17 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPEST.M

Volume Inj. : 2ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





SEMIVOLATILES

Peak Environmental

Work Order: 8100452

Project: Ridgewood

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client:	**Peak Environmental**	**Project:**	**Ridgewood**
Client Sample ID:	**Blank**	**Work Order:**	**8100452**
Lab Sample ID:	**B8J1101-BLK1**		

Init/Final Vol:	15 g / 1 mL	Prep Date:	10/11/2018 08:03	File ID:	DS18769.D
		Prep Batch:	B8J1101	Analyzed:	10/11/2018 13:11
		Matrix:	Soil	Sequence:	S8J1213
		Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg wet)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.0319	0.200	U
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.0205	0.133	U
95-95-4	2,4,5-Trichlorophenol	ND	0.0181	0.133	U
88-06-2	2,4,6-Trichlorophenol	ND	0.00833	0.133	U
120-83-2	2,4-Dichlorophenol	ND	0.0134	0.133	U
105-67-9	2,4-Dimethylphenol	ND	0.0131	0.133	U
51-28-5	2,4-Dinitrophenol	ND	0.0192	0.667	U
121-14-2	2,4-Dinitrotoluene	ND	0.0142	0.133	U
606-20-2	2,6-Dinitrotoluene	ND	0.0318	0.133	U
91-58-7	2-Chloronaphthalene	ND	0.0153	0.133	U
95-57-8	2-Chlorophenol	ND	0.0176	0.133	U
91-57-6	2-Methylnaphthalene	ND	0.0319	0.200	U
95-48-7	2-Methylphenol	ND	0.0263	0.133	U
88-74-4	2-Nitroaniline	ND	0.0107	0.133	U
88-75-5	2-Nitrophenol	ND	0.0148	0.133	U
91-94-1	3,3'-Dichlorobenzidine	ND	0.0140	0.133	U
106-44-5	3+4-Methylphenol	ND	0.0244	0.133	U
99-09-2	3-Nitroaniline	ND	0.0247	0.133	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	0.0251	0.333	U
101-55-3	4-Bromophenyl-phenyl ether	ND	0.0190	0.133	U
59-50-7	4-Chloro-3-methylphenol	ND	0.0210	0.133	U
106-47-8	4-Chloroaniline	ND	0.00466	0.133	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.00719	0.133	U
100-01-6	4-Nitroaniline	ND	0.0666	0.133	U
100-02-7	4-Nitrophenol	ND	0.00852	0.133	U
83-32-9	Acenaphthene	ND	0.00759	0.133	U
208-96-8	Acenaphthylene	ND	0.00463	0.133	U
98-86-2	Acetophenone	ND	0.0132	0.133	U
120-12-7	Anthracene	ND	0.0193	0.133	U
1912-24-9	Atrazine	ND	0.0125	0.133	U
100-52-7	Benzaldehyde	ND	0.0409	0.133	U

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ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client:	**Peak Environmental**	**Project:**	**Ridgewood**
Client Sample ID:	**Blank**	**Work Order:**	**8100452**
Lab Sample ID:	**B8J1101-BLK1**		

Init/Final Vol:	15 g / 1 mL	Prep Date:	10/11/2018 08:03	File ID:	DS18769.D
		Prep Batch:	B8J1101	Analyzed:	10/11/2018 13:11
		Matrix:	Soil	Sequence:	S8J1213
		Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg wet)	MDL	RL	Q
56-55-3	Benzo(a)anthracene	ND	0.0134	0.133	U
50-32-8	Benzo(a)pyrene	ND	0.0232	0.133	U
205-99-2	Benzo(b)fluoranthene	ND	0.0187	0.133	U
191-24-2	Benzo(g,h,i)perylene	ND	0.0108	0.133	U
207-08-9	Benzo(k)fluoranthene	ND	0.0153	0.133	U
92-52-4	Biphenyl	ND	0.0117	0.133	U
111-91-1	bis(2-chloroethoxy)methane	ND	0.0184	0.133	U
111-44-4	bis(2-chloroethyl)ether	ND	0.0146	0.133	U
108-60-1	bis(2-chloroisopropyl)ether	ND	0.0479	0.133	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	0.0266	0.133	U
85-68-7	Butylbenzylphthalate	ND	0.0121	0.133	U
105-60-2	Caprolactam	ND	0.0172	0.133	U
86-74-8	Carbazole	ND	0.0256	0.333	U
218-01-9	Chrysene	ND	0.00912	0.133	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.0132	0.133	U
132-64-9	Dibenzofuran	ND	0.00793	0.133	U
84-66-2	Diethylphthalate	ND	0.0258	0.133	U
131-11-3	Dimethylphthalate	0.0574	0.00826	0.133	J
84-74-2	Di-n-butylphthalate	ND	0.0544	0.133	U
117-84-0	Di-n-octylphthalate	ND	0.0273	0.133	U
206-44-0	Fluoranthene	ND	0.0125	0.133	U
86-73-7	Fluorene	ND	0.0111	0.133	U
118-74-1	Hexachlorobenzene	ND	0.0174	0.133	U
87-68-3	Hexachlorobutadiene	ND	0.0639	0.133	U
77-47-4	Hexachlorocyclopentadiene	ND	0.0555	0.333	U
67-72-1	Hexachloroethane	ND	0.0146	0.133	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0143	0.133	U
78-59-1	Isophorone	ND	0.00872	0.133	U
91-20-3	Naphthalene	ND	0.00986	0.133	U
98-95-3	Nitrobenzene	ND	0.0226	0.133	U
621-64-7	n-Nitroso-di-n-propylamine	ND	0.00713	0.133	U

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ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client:	**Peak Environmental**	**Project:**	**Ridgewood**
Client Sample ID:	**Blank**	**Work Order:**	**8100452**
Lab Sample ID:	**B8J1101-BLK1**		

Init/Final Vol:	15 g / 1 mL	Prep Date:	10/11/2018 08:03	File ID:	DS18769.D
		Prep Batch:	B8J1101	Analyzed:	10/11/2018 13:11
		Matrix:	Soil	Sequence:	S8J1213
		Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg wet)	MDL	RL	Q
86-30-6	n-Nitrosodiphenylamine	ND	0.0284	0.133	U
85-01-8	Phenanthrene	ND	0.0175	0.133	U
108-95-2	Phenol	ND	0.0108	0.133	U
129-00-0	Pyrene	ND	0.00979	0.133	U

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ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client:	**Peak Environmental**	**Project:**	**Ridgewood**
Client Sample ID:	**Blank**	**Work Order:**	**8100452**
Lab Sample ID:	**B8J1101-BLK1**		

		Prep Date:	10/11/2018 08:03	File ID:	DS18769.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/2018 13:11
		Matrix:	Soil	Sequence:	S8J1213
		Prep Method:	Sonication MS		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg wet)	RT	Q
	Sum of Tentatively Identified Compounds	0.000		

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ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client:	**Peak Environmental**	**Project:**	**Ridgewood**
Client Sample ID:	**Blank**	**Work Order:**	**8100452**
Lab Sample ID:	**B8J1101-BLK1**		

Init/Final Vol:	15 g / 1 mL	Prep Date:	10/11/2018 08:03	File ID:	DS18769.D
		Prep Batch:	B8J1101	Analyzed:	10/11/2018 13:11
		Matrix:	Soil	Sequence:	S8J1213
		Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg wet)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.111	0.200	U
91-57-6	2-Methylnaphthalene	ND	0.0319	0.200	U
83-32-9	Acenaphthene	ND	0.00759	0.133	U
208-96-8	Acenaphthylene	ND	0.00463	0.133	U
120-12-7	Anthracene	ND	0.0193	0.133	U
56-55-3	Benzo(a)anthracene	ND	0.0134	0.133	U
50-32-8	Benzo(a)pyrene	ND	0.0232	0.133	U
205-99-2	Benzo(b)fluoranthene	ND	0.0187	0.133	U
191-24-2	Benzo(g,h,i)perylene	ND	0.0108	0.133	U
207-08-9	Benzo(k)fluoranthene	ND	0.0153	0.133	U
218-01-9	Chrysene	ND	0.00912	0.133	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.0132	0.133	U
206-44-0	Fluoranthene	ND	0.0125	0.133	U
86-73-7	Fluorene	ND	0.0111	0.133	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0143	0.133	U
91-20-3	Naphthalene	ND	0.00986	0.133	U
85-01-8	Phenanthrene	ND	0.0175	0.133	U
129-00-0	Pyrene	ND	0.00979	0.133	U

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Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\D\DATA\20181011\DS18769.D Vial: 4
Acq On : 11 Oct 2018 13:11 Operator: GCH
Sample : B8J1101-BLK1 Inst : GCMS-D
Misc : SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 13:39 2018 Quant Results File: 0802ABN.RES

Quant Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Wed Oct 10 10:16:58 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270B

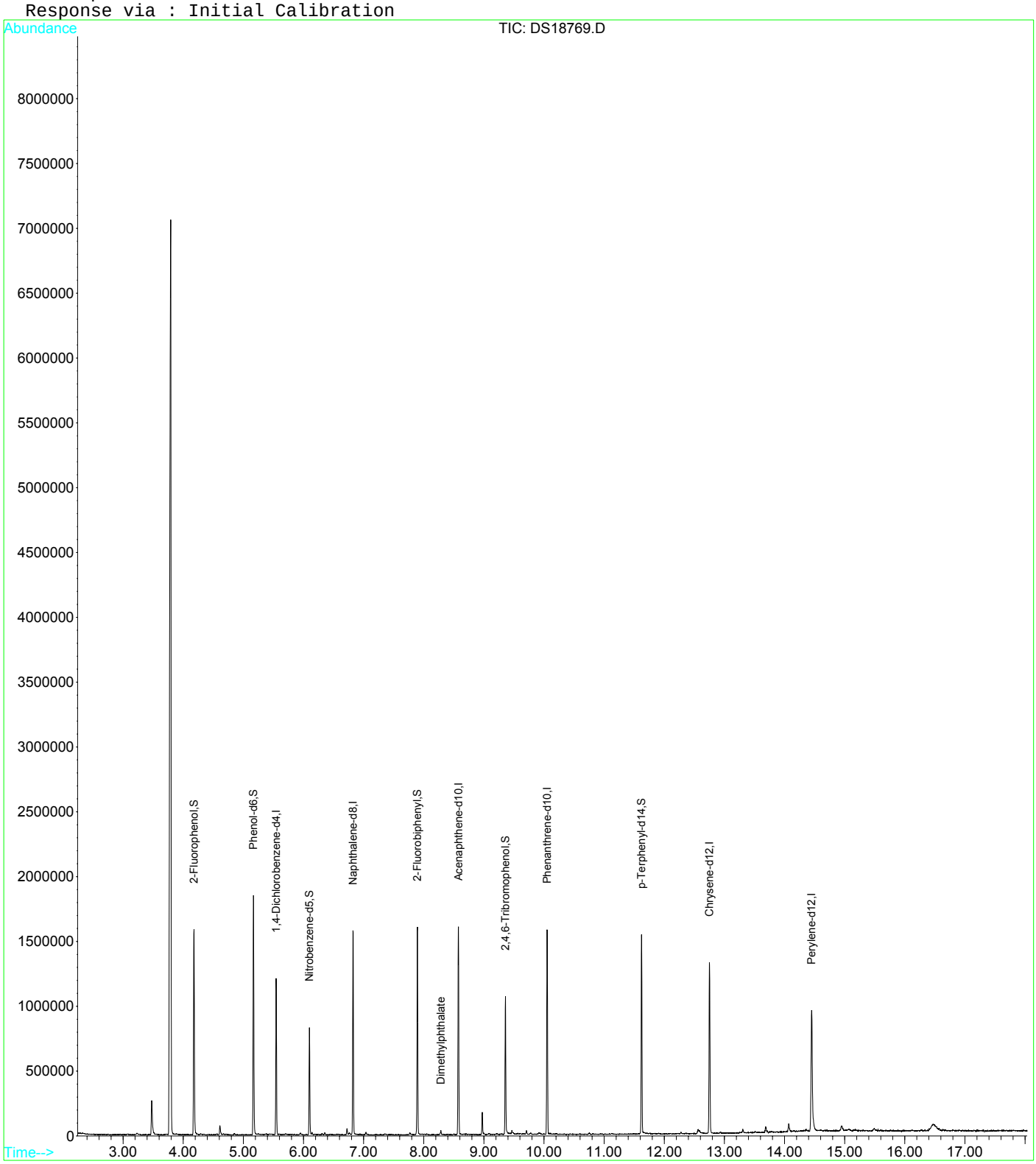
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.55	152	169814	40.00	ug/kg	-0.06
22) Naphthalene-d8	6.83	136	643038	40.00	ug/kg	-0.06
39) Acenaphthene-d10	8.58	164	307744	40.00	ug/kg	-0.06
62) Phenanthrene-d10	10.05	188	545070	40.00	ug/kg	-0.07
76) Chrysene-d12	12.75	240	412629	40.00	ug/kg	-0.08
85) Perylene-d12	14.45	264	408173	40.00	ug/kg	-0.10
System Monitoring Compounds						
5) 2-Fluorophenol	4.18	112	443335	76.16	ug/kg	-0.08
Spiked Amount 100.000	Range 18 - 82		Recovery = 76.16%			
8) Phenol-d6	5.17	99	576916	78.04	ug/kg	-0.08
Spiked Amount 100.000	Range 20 - 88		Recovery = 78.04%			
23) Nitrobenzene-d5	6.10	82	242418	40.51	ug/kg	-0.12
Spiked Amount 50.000	Range 27 - 100		Recovery = 81.02%			
44) 2-Fluorobiphenyl	7.90	172	433591	38.16	ug/kg	-0.09
Spiked Amount 50.000	Range 27 - 105		Recovery = 76.32%			
66) 2,4,6-Tribromophenol	9.36	330	79068	68.63	ug/kg	-0.10
Spiked Amount 100.000	Range 24 - 115		Recovery = 68.63%			
79) p-Terphenyl-d14	11.62	244	385999	40.93	ug/kg	-0.02
Spiked Amount 50.000	Range 29 - 110		Recovery = 81.86%			
Target Compounds						Qvalue
48) Dimethylphthalate	8.28	163	9408	0.86	ug/kg	90

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\HPCHEM\D\DATA\20181011\DS18769.D Vial: 4
Acq On : 11 Oct 2018 13:11 Operator: GCH
Sample : B8J1101-BLK1 Inst : GCMS-D
Misc : SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 13:39 2018 Quant Results File: 0802ABN.RES

Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Mon Oct 15 10:25:43 2018
Response via : Initial Calibration



DS18769.D 0802ABN.M Tue Oct 16 12:43:50 2018 SS Page 2

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **NTP-1A**
Lab Sample ID: **8100452-01**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	DS18771.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 14:10
Dilution:	1	Matrix:	Soil	Sequence:	S8J1213
Percent Solids:	89.91	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.0355	0.222	U
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.0228	0.148	U
95-95-4	2,4,5-Trichlorophenol	ND	0.0201	0.148	U
88-06-2	2,4,6-Trichlorophenol	ND	0.00927	0.148	U
120-83-2	2,4-Dichlorophenol	ND	0.0149	0.148	U
105-67-9	2,4-Dimethylphenol	ND	0.0146	0.148	U
51-28-5	2,4-Dinitrophenol	ND	0.0214	0.742	U
121-14-2	2,4-Dinitrotoluene	ND	0.0158	0.148	U
606-20-2	2,6-Dinitrotoluene	ND	0.0354	0.148	U
91-58-7	2-Chloronaphthalene	ND	0.0170	0.148	U
95-57-8	2-Chlorophenol	ND	0.0196	0.148	U
91-57-6	2-Methylnaphthalene	ND	0.0355	0.222	U
95-48-7	2-Methylphenol	ND	0.0293	0.148	U
88-74-4	2-Nitroaniline	ND	0.0119	0.148	U
88-75-5	2-Nitrophenol	ND	0.0165	0.148	U
91-94-1	3,3'-Dichlorobenzidine	ND	0.0156	0.148	U
106-44-5	3+4-Methylphenol	ND	0.0271	0.148	U
99-09-2	3-Nitroaniline	ND	0.0275	0.148	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	0.0279	0.370	U
101-55-3	4-Bromophenyl-phenyl ether	ND	0.0211	0.148	U
59-50-7	4-Chloro-3-methylphenol	ND	0.0234	0.148	U
106-47-8	4-Chloroaniline	ND	0.00518	0.148	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.00800	0.148	U
100-01-6	4-Nitroaniline	ND	0.0741	0.148	U
100-02-7	4-Nitrophenol	ND	0.00948	0.148	U
83-32-9	Acenaphthene	ND	0.00844	0.148	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

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ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **NTP-1A**
Lab Sample ID: **8100452-01**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	DS18771.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 14:10
Dilution:	1	Matrix:	Soil	Sequence:	S8J1213
Percent Solids:	89.91	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
208-96-8	Acenaphthylene	ND	0.00515	0.148	U
98-86-2	Acetophenone	ND	0.0147	0.148	U
120-12-7	Anthracene	ND	0.0215	0.148	U
1912-24-9	Atrazine	ND	0.0139	0.148	U
100-52-7	Benzaldehyde	ND	0.0455	0.148	U
56-55-3	Benzo(a)anthracene	0.0995	0.0149	0.148	J
50-32-8	Benzo(a)pyrene	0.0887	0.0258	0.148	J
205-99-2	Benzo(b)fluoranthene	0.107	0.0208	0.148	J
191-24-2	Benzo(g,h,i)perylene	0.0702	0.0120	0.148	J
207-08-9	Benzo(k)fluoranthene	0.0788	0.0170	0.148	J
92-52-4	Biphenyl	ND	0.0130	0.148	U
111-91-1	bis(2-chloroethoxy)methane	ND	0.0205	0.148	U
111-44-4	bis(2-chloroethyl)ether	ND	0.0162	0.148	U
108-60-1	bis(2-chloroisopropyl)ether	ND	0.0533	0.148	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	0.0296	0.148	U
85-68-7	Butylbenzylphthalate	ND	0.0135	0.148	U
105-60-2	Caprolactam	ND	0.0191	0.148	U
86-74-8	Carbazole	ND	0.0285	0.370	U
218-01-9	Chrysene	0.0909	0.0101	0.148	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.0147	0.148	U
132-64-9	Dibenzofuran	ND	0.00882	0.148	U
84-66-2	Diethylphthalate	ND	0.0287	0.148	U
131-11-3	Dimethylphthalate	ND	0.00919	0.148	U
84-74-2	Di-n-butylphthalate	ND	0.0605	0.148	U
117-84-0	Di-n-octylphthalate	ND	0.0304	0.148	U
206-44-0	Fluoranthene	0.167	0.0139	0.148	

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **NTP-1A**
Lab Sample ID: **8100452-01**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	DS18771.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 14:10
Dilution:	1	Matrix:	Soil	Sequence:	S8J1213
Percent Solids:	89.91	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
86-73-7	Fluorene	ND	0.0123	0.148	U
118-74-1	Hexachlorobenzene	ND	0.0194	0.148	U
87-68-3	Hexachlorobutadiene	ND	0.0711	0.148	U
77-47-4	Hexachlorocyclopentadiene	ND	0.0617	0.370	U
67-72-1	Hexachloroethane	ND	0.0162	0.148	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.0610	0.0159	0.148	J
78-59-1	Isophorone	ND	0.00970	0.148	U
91-20-3	Naphthalene	ND	0.0110	0.148	U
98-95-3	Nitrobenzene	ND	0.0251	0.148	U
621-64-7	n-Nitroso-di-n-propylamine	ND	0.00793	0.148	U
86-30-6	n-Nitrosodiphenylamine	ND	0.0316	0.148	U
85-01-8	Phenanthrene	0.126	0.0195	0.148	J
108-95-2	Phenol	ND	0.0120	0.148	U
129-00-0	Pyrene	0.158	0.0109	0.148	

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **NTP-1A**
Lab Sample ID: **8100452-01**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	DS18771.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 14:10
Dilution:	1	Matrix:	Soil	Sequence:	S8J1213
Percent Solids:	89.91	Prep Method:	Sonication MS		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg dry)	RT	Q

J - Indicates estimated value
B - Indicates compound found in associated blank
D - Indicates result is based on a dilution

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\D\DATA\20181011\DS18771.D Vial: 6
Acq On : 11 Oct 2018 14:10 Operator: GCH
Sample : 8100452-01 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 15:13 2018 Quant Results File: 0802ABN.RES

Quant Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Wed Oct 10 10:16:58 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270B

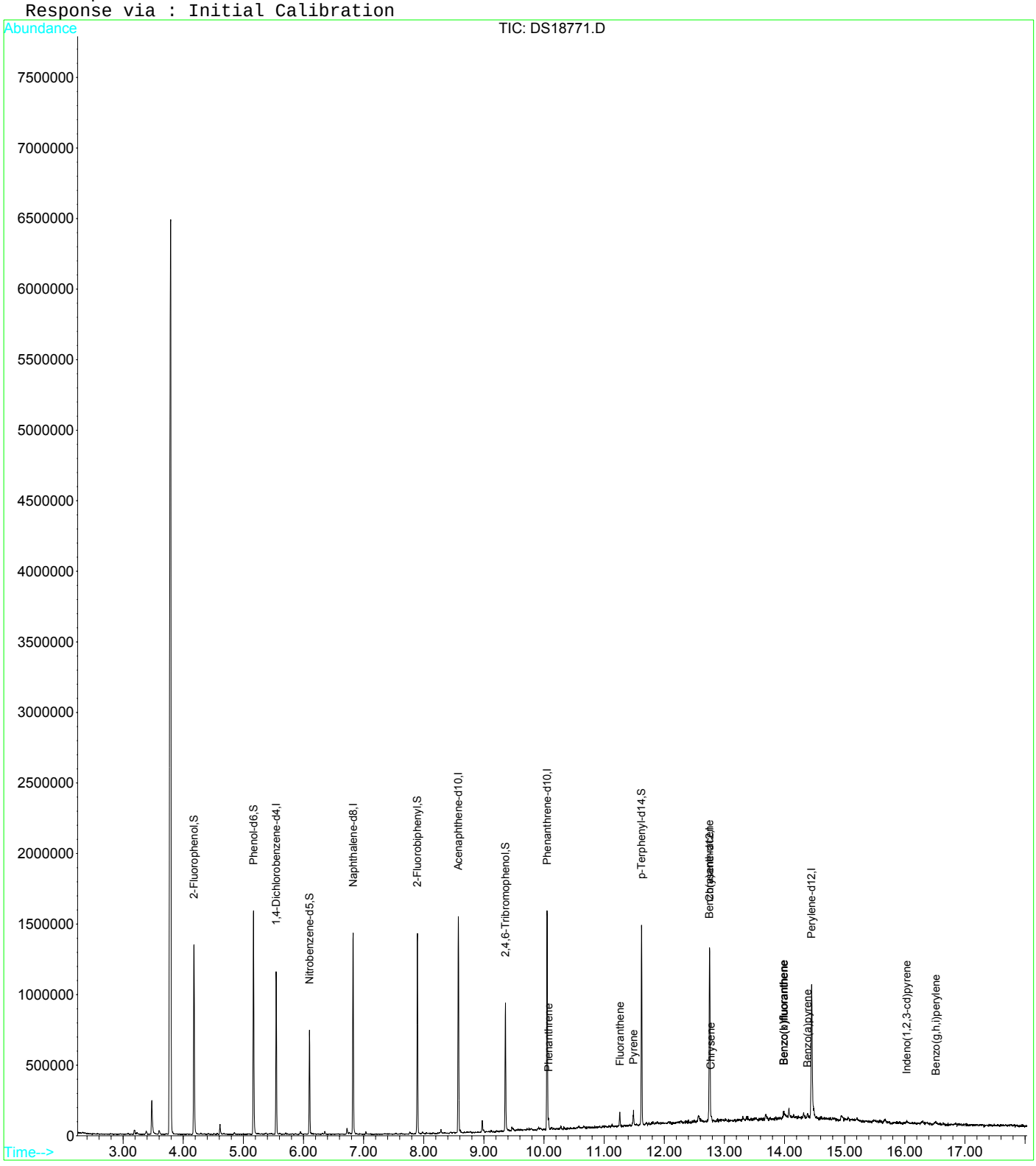
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.55	152	162070	40.00	ug/kg	-0.06
22) Naphthalene-d8	6.83	136	608163	40.00	ug/kg	-0.06
39) Acenaphthene-d10	8.57	164	299587	40.00	ug/kg	-0.07
62) Phenanthrene-d10	10.05	188	519499	40.00	ug/kg	-0.07
76) Chrysene-d12	12.76	240	391750	40.00	ug/kg	-0.08
85) Perylene-d12	14.45	264	379160	40.00	ug/kg	-0.10
System Monitoring Compounds						
5) 2-Fluorophenol	4.18	112	381348	68.64	ug/kg	-0.08
Spiked Amount 100.000	Range 18 - 82		Recovery = 68.64%			
8) Phenol-d6	5.17	99	508165	72.03	ug/kg	-0.08
Spiked Amount 100.000	Range 20 - 88		Recovery = 72.03%			
23) Nitrobenzene-d5	6.10	82	212205	37.49	ug/kg	-0.12
Spiked Amount 50.000	Range 27 - 100		Recovery = 74.98%			
44) 2-Fluorobiphenyl	7.90	172	386618	34.96	ug/kg	-0.09
Spiked Amount 50.000	Range 27 - 105		Recovery = 69.92%			
66) 2,4,6-Tribromophenol	9.36	330	70459	64.17	ug/kg	-0.10
Spiked Amount 100.000	Range 24 - 115		Recovery = 64.17%			
79) p-Terphenyl-d14	11.62	244	347430	38.80	ug/kg	-0.01
Spiked Amount 50.000	Range 29 - 110		Recovery = 77.60%			
Target Compounds						Qvalue
71) Phenanthrene	10.08	178	25294	1.70	ug/kg	96
75) Fluoranthene	11.26	202	35267	2.25	ug/kg	97
78) Pyrene	11.49	202	32004	2.13	ug/kg	94
81) Benzo(a)anthracene	12.74	228	17116	1.34	ug/kg	85
83) Chrysene	12.78	228	14951m	1.23	ug/kg	
87) Benzo(b)fluoranthene	13.99	252	15059m	1.44	ug/kg	
88) Benzo(k)fluoranthene	14.00	252	11305m	1.06	ug/kg	
89) Benzo(a)pyrene	14.39	252	12766	1.20	ug/kg#	89
90) Indeno(1,2,3-cd)pyrene	16.03	276	9646m	0.82	ug/kg	
92) Benzo(g,h,i)perylene	16.51	276	9349m	0.95	ug/kg	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\HPCHEM\D\DATA\20181011\DS18771.D Vial: 6
Acq On : 11 Oct 2018 14:10 Operator: GCH
Sample : 8100452-01 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 15:13 2018 Quant Results File: 0802ABN.RES

Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Mon Oct 15 10:25:43 2018
Response via : Initial Calibration



DS18771.D 0802ABN.M Tue Oct 16 12:43:56 2018 SS Page 2

14 14.2.

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **NTP-2A**
Lab Sample ID: **8100452-02**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	DS18772.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 14:38
Dilution:	1	Matrix:	Soil	Sequence:	S8J1213
Percent Solids:	92.54	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.120	0.216	U
91-57-6	2-Methylnaphthalene	ND	0.0345	0.216	U
83-32-9	Acenaphthene	ND	0.00820	0.144	U
208-96-8	Acenaphthylene	ND	0.00500	0.144	U
120-12-7	Anthracene	ND	0.0209	0.144	U
56-55-3	Benzo(a)anthracene	0.0754	0.0145	0.144	J
50-32-8	Benzo(a)pyrene	0.0733	0.0251	0.144	J
205-99-2	Benzo(b)fluoranthene	ND	0.0202	0.144	U
191-24-2	Benzo(g,h,i)perylene	0.0911	0.0117	0.144	J
207-08-9	Benzo(k)fluoranthene	0.106	0.0165	0.144	J
218-01-9	Chrysene	0.0911	0.00985	0.144	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.0143	0.144	U
206-44-0	Fluoranthene	0.120	0.0135	0.144	J
86-73-7	Fluorene	ND	0.0120	0.144	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0155	0.144	U
91-20-3	Naphthalene	ND	0.0107	0.144	U
85-01-8	Phenanthrene	0.0544	0.0189	0.144	J
129-00-0	Pyrene	0.130	0.0106	0.144	J

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\D\DATA\20181011\DS18772.D Vial: 7
Acq On : 11 Oct 2018 14:38 Operator: GCH
Sample : 8100452-02 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 15:14 2018 Quant Results File: 0802ABN.RES

Quant Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Wed Oct 10 10:16:58 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270B

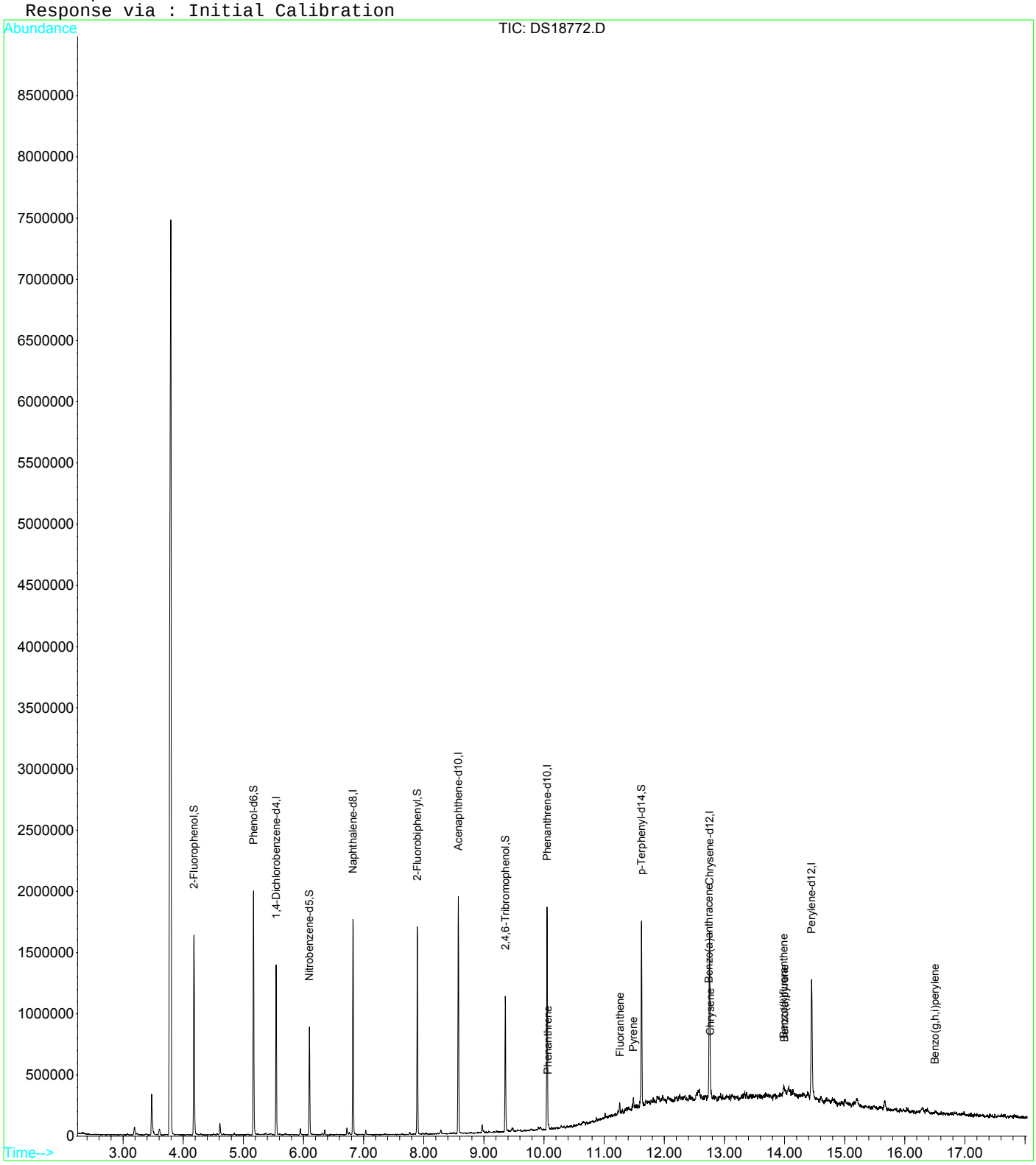
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.55	152	182818	40.00	ug/kg	-0.06
22) Naphthalene-d8	6.82	136	695780	40.00	ug/kg	-0.07
39) Acenaphthene-d10	8.57	164	358130	40.00	ug/kg	-0.07
62) Phenanthrene-d10	10.05	188	600167	40.00	ug/kg	-0.07
76) Chrysene-d12	12.75	240	442655	40.00	ug/kg	-0.08
85) Perylene-d12	14.45	264	426788	40.00	ug/kg	-0.10
System Monitoring Compounds						
5) 2-Fluorophenol	4.18	112	449804	71.78	ug/kg	-0.08
Spiked Amount 100.000	Range 18 - 82		Recovery = 71.78%			
8) Phenol-d6	5.17	99	588966	74.01	ug/kg	-0.07
Spiked Amount 100.000	Range 20 - 88		Recovery = 74.01%			
23) Nitrobenzene-d5	6.10	82	249646	38.55	ug/kg	-0.12
Spiked Amount 50.000	Range 27 - 100		Recovery = 77.10%			
44) 2-Fluorobiphenyl	7.89	172	446223	33.75	ug/kg	-0.09
Spiked Amount 50.000	Range 27 - 105		Recovery = 67.50%			
66) 2,4,6-Tribromophenol	9.36	330	79687	62.82	ug/kg	-0.10
Spiked Amount 100.000	Range 24 - 115		Recovery = 62.82%			
79) p-Terphenyl-d14	11.62	244	378142	37.38	ug/kg	-0.02
Spiked Amount 50.000	Range 29 - 110		Recovery = 74.76%			
Target Compounds						Qvalue
71) Phenanthrene	10.07	178	12989	0.76	ug/kg	92
75) Fluoranthene	11.26	202	30146	1.67	ug/kg	93
78) Pyrene	11.49	202	30527	1.80	ug/kg	99
81) Benzo(a)anthracene	12.74	228	15089m	1.05	ug/kg	
83) Chrysene	12.78	228	17418m	1.26	ug/kg	
88) Benzo(k)fluoranthene	13.98	252	17607m	1.47	ug/kg	
89) Benzo(a)pyrene	14.01	252	12220m	1.02	ug/kg	
92) Benzo(g,h,i)perylene	16.51	276	14061m	1.26	ug/kg	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\HPCHEM\D\DATA\20181011\DS18772.D Vial: 7
Acq On : 11 Oct 2018 14:38 Operator: GCH
Sample : 8100452-02 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 15:14 2018 Quant Results File: 0802ABN.RES

Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Mon Oct 15 10:25:43 2018
Response via : Initial Calibration



DS18772.D 0802ABN.M Tue Oct 16 12:43:58 2018 SS Page 2

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **NTP-2B**
Lab Sample ID: **8100452-03**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	DS18773.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 15:07
Dilution:	1	Matrix:	Soil	Sequence:	S8J1213
Percent Solids:	92.25	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.120	0.217	U
91-57-6	2-Methylnaphthalene	ND	0.0346	0.217	U
83-32-9	Acenaphthene	ND	0.00823	0.144	U
208-96-8	Acenaphthylene	ND	0.00502	0.144	U
120-12-7	Anthracene	ND	0.0209	0.144	U
56-55-3	Benzo(a)anthracene	0.0876	0.0145	0.144	J
50-32-8	Benzo(a)pyrene	0.0814	0.0251	0.144	J
205-99-2	Benzo(b)fluoranthene	0.0987	0.0203	0.144	J
191-24-2	Benzo(g,h,i)perylene	0.0663	0.0117	0.144	J
207-08-9	Benzo(k)fluoranthene	0.0460	0.0166	0.144	J
218-01-9	Chrysene	0.0730	0.00989	0.144	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.0143	0.144	U
206-44-0	Fluoranthene	0.153	0.0135	0.144	
86-73-7	Fluorene	ND	0.0120	0.144	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0155	0.144	U
91-20-3	Naphthalene	ND	0.0107	0.144	U
85-01-8	Phenanthrene	0.114	0.0190	0.144	J
129-00-0	Pyrene	0.137	0.0106	0.144	J

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\D\DATA\20181011\DS18773.D Vial: 8
Acq On : 11 Oct 2018 15:07 Operator: GCH
Sample : 8100452-03 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 16:06 2018 Quant Results File: 0802ABN.RES

Quant Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Wed Oct 10 10:16:58 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.55	152	167877	40.00	ug/kg	-0.06
22) Naphthalene-d8	6.82	136	627978	40.00	ug/kg	-0.07
39) Acenaphthene-d10	8.57	164	308607	40.00	ug/kg	-0.07
62) Phenanthrene-d10	10.05	188	531137	40.00	ug/kg	-0.07
76) Chrysene-d12	12.75	240	397045	40.00	ug/kg	-0.08
85) Perylene-d12	14.45	264	381767	40.00	ug/kg	-0.10
System Monitoring Compounds						
5) 2-Fluorophenol	4.18	112	432315	75.13	ug/kg	-0.08
Spiked Amount 100.000	Range 18 - 82		Recovery = 75.13%			
8) Phenol-d6	5.17	99	560231	76.66	ug/kg	-0.08
Spiked Amount 100.000	Range 20 - 88		Recovery = 76.66%			
23) Nitrobenzene-d5	6.10	82	227128	38.86	ug/kg	-0.12
Spiked Amount 50.000	Range 27 - 100		Recovery = 77.72%			
44) 2-Fluorobiphenyl	7.90	172	426186	37.41	ug/kg	-0.09
Spiked Amount 50.000	Range 27 - 105		Recovery = 74.82%			
66) 2,4,6-Tribromophenol	9.36	330	79506	70.82	ug/kg	-0.10
Spiked Amount 100.000	Range 24 - 115		Recovery = 70.82%			
79) p-Terphenyl-d14	11.62	244	365684	40.30	ug/kg	-0.02
Spiked Amount 50.000	Range 29 - 110		Recovery = 80.60%			

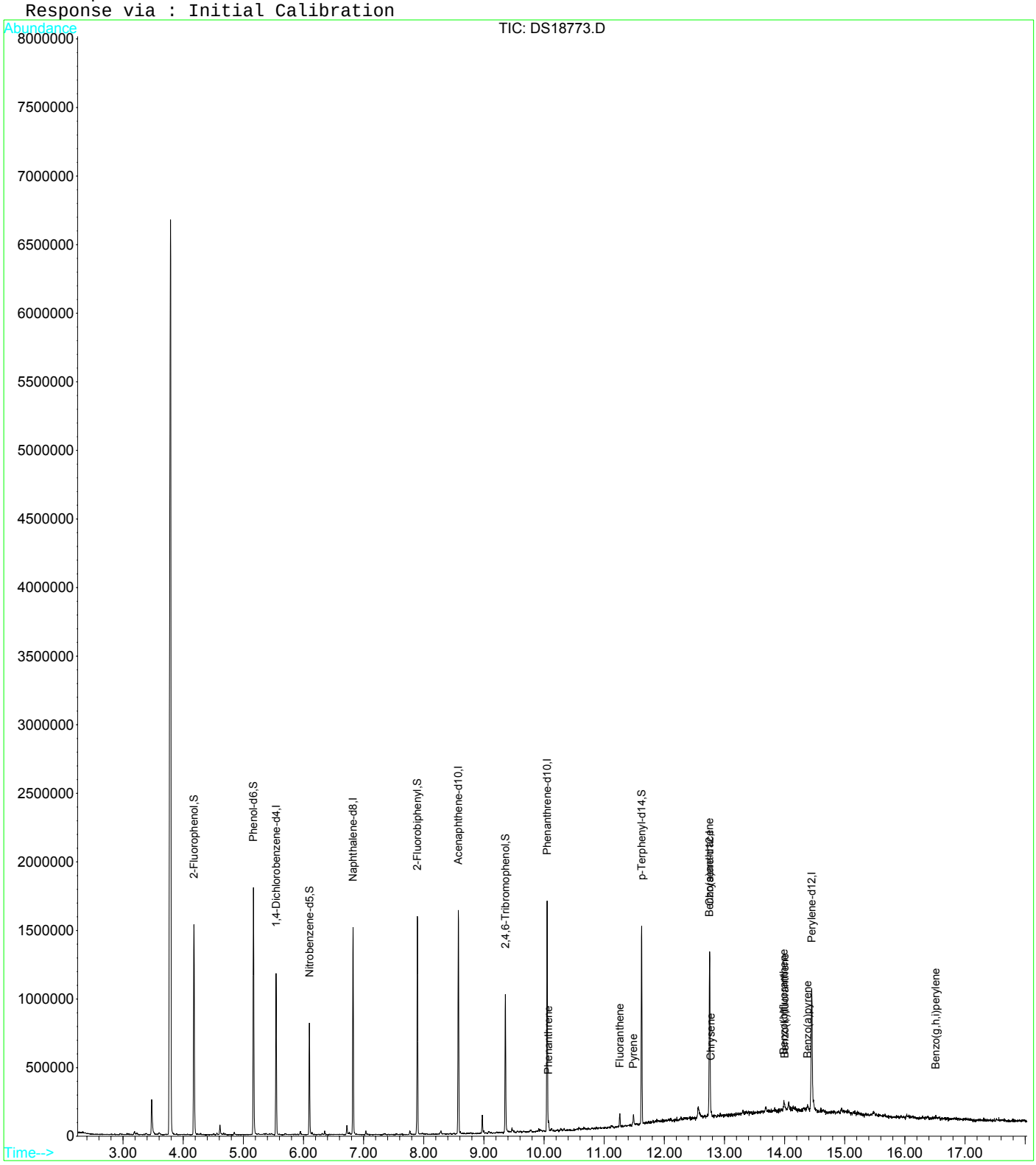
Target Compounds						Qvalue
71) Phenanthrene	10.07	178	24099	1.58	ug/kg	95
75) Fluoranthene	11.26	202	33875	2.11	ug/kg	96
78) Pyrene	11.49	202	28837	1.90	ug/kg	98
81) Benzo(a)anthracene	12.74	228	15674m	1.21	ug/kg	
83) Chrysene	12.78	228	12491	1.01	ug/kg	97
87) Benzo(b)fluoranthene	13.99	252	14397	1.37	ug/kg	82
88) Benzo(k)fluoranthene	14.01	252	6816m	0.64	ug/kg	
89) Benzo(a)pyrene	14.38	252	12104	1.13	ug/kg	84
92) Benzo(g,h,i)perylene	16.51	276	9119m	0.92	ug/kg	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\HPCHEM\D\DATA\20181011\DS18773.D Vial: 8
Acq On : 11 Oct 2018 15:07 Operator: GCH
Sample : 8100452-03 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 16:06 2018 Quant Results File: 0802ABN.RES

Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Mon Oct 15 10:25:43 2018
Response via : Initial Calibration



ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **NTP-3B**
Lab Sample ID: **8100452-04**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	DS18774.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 15:35
Dilution:	1	Matrix:	Soil	Sequence:	S8J1213
Percent Solids:	91.33	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.122	0.219	U
91-57-6	2-Methylnaphthalene	ND	0.0349	0.219	U
83-32-9	Acenaphthene	ND	0.00831	0.146	U
208-96-8	Acenaphthylene	ND	0.00507	0.146	U
120-12-7	Anthracene	ND	0.0211	0.146	U
56-55-3	Benzo(a)anthracene	ND	0.0147	0.146	U
50-32-8	Benzo(a)pyrene	ND	0.0254	0.146	U
205-99-2	Benzo(b)fluoranthene	ND	0.0205	0.146	U
191-24-2	Benzo(g,h,i)perylene	ND	0.0118	0.146	U
207-08-9	Benzo(k)fluoranthene	ND	0.0168	0.146	U
218-01-9	Chrysene	ND	0.00999	0.146	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.0145	0.146	U
206-44-0	Fluoranthene	ND	0.0137	0.146	U
86-73-7	Fluorene	ND	0.0122	0.146	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0157	0.146	U
91-20-3	Naphthalene	ND	0.0108	0.146	U
85-01-8	Phenanthrene	ND	0.0192	0.146	U
129-00-0	Pyrene	ND	0.0107	0.146	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\D\DATA\20181011\DS18774.D Vial: 9
Acq On : 11 Oct 2018 15:35 Operator: GCH
Sample : 8100452-04 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 16:06 2018 Quant Results File: 0802ABN.RES

Quant Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Wed Oct 10 10:16:58 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.55	152	162627	40.00	ug/kg	-0.06
22) Naphthalene-d8	6.82	136	625040	40.00	ug/kg	-0.07
39) Acenaphthene-d10	8.57	164	296500	40.00	ug/kg	-0.07
62) Phenanthrene-d10	10.05	188	521121	40.00	ug/kg	-0.07
76) Chrysene-d12	12.75	240	383151	40.00	ug/kg	-0.08
85) Perylene-d12	14.45	264	361524	40.00	ug/kg	-0.10
System Monitoring Compounds						
5) 2-Fluorophenol	4.18	112	373953	67.08	ug/kg	-0.08
Spiked Amount 100.000	Range 18 - 82		Recovery = 67.08%			
8) Phenol-d6	5.17	99	499782	70.60	ug/kg	-0.08
Spiked Amount 100.000	Range 20 - 88		Recovery = 70.60%			
23) Nitrobenzene-d5	6.10	82	214431	36.86	ug/kg	-0.12
Spiked Amount 50.000	Range 27 - 100		Recovery = 73.72%			
44) 2-Fluorobiphenyl	7.90	172	381180	34.82	ug/kg	-0.09
Spiked Amount 50.000	Range 27 - 105		Recovery = 69.64%			
66) 2,4,6-Tribromophenol	9.36	330	69643	63.23	ug/kg	-0.10
Spiked Amount 100.000	Range 24 - 115		Recovery = 63.23%			
79) p-Terphenyl-d14	11.62	244	324130	37.01	ug/kg	-0.02
Spiked Amount 50.000	Range 29 - 110		Recovery = 74.02%			

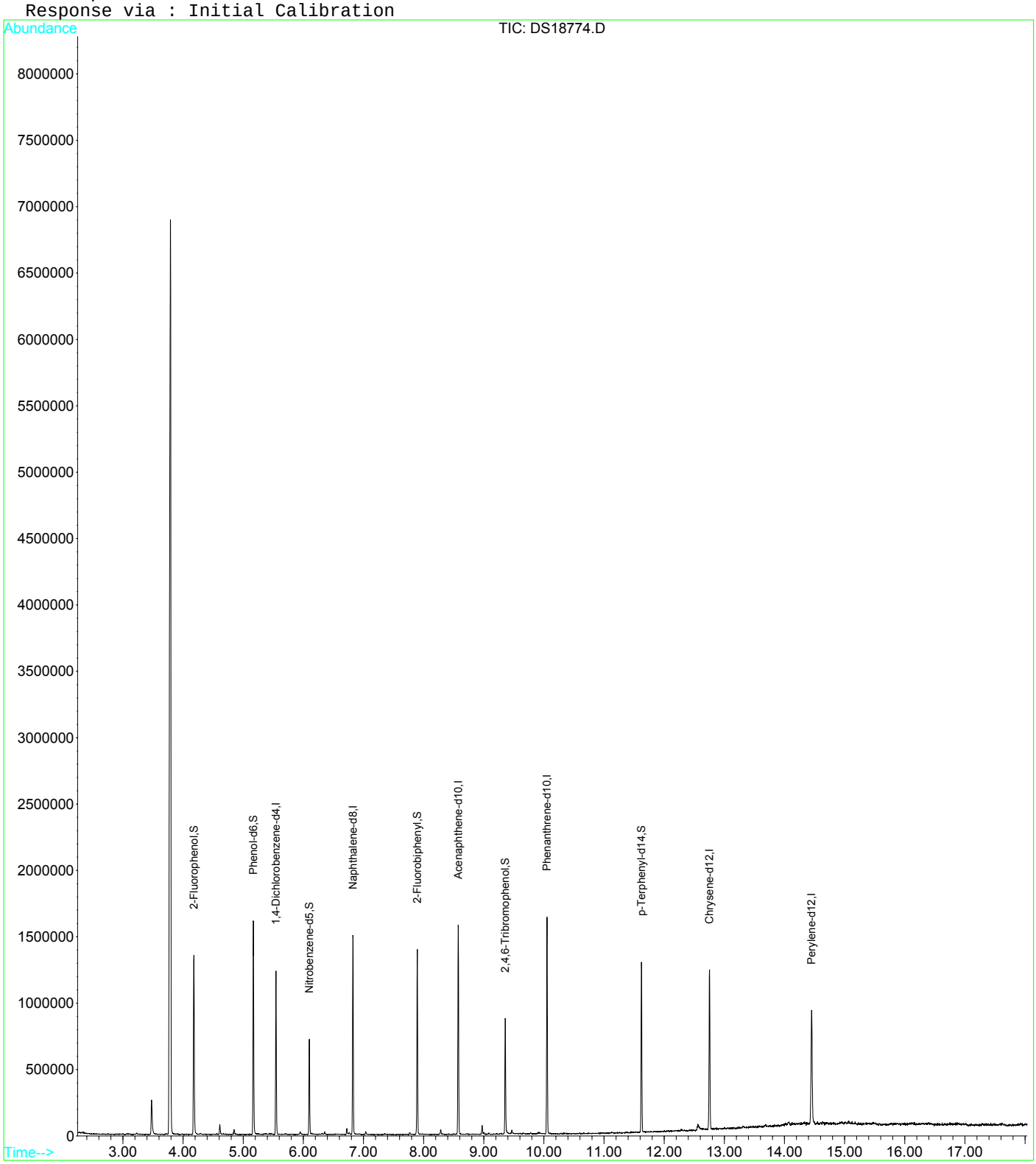
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
DS18774.D 0802ABN.M Tue Oct 16 12:44:02 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\D\DATA\20181011\DS18774.D Vial: 9
Acq On : 11 Oct 2018 15:35 Operator: GCH
Sample : 8100452-04 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 16:06 2018 Quant Results File: 0802ABN.RES

Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Mon Oct 15 10:25:43 2018
Response via : Initial Calibration



DS18774.D 0802ABN.M Tue Oct 16 12:44:02 2018 SS Page 2

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **NTP-4B**
Lab Sample ID: **8100452-05**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:35	Prep Date:	10/11/18 08:03	File ID:	DS18775.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 16:04
Dilution:	1	Matrix:	Soil	Sequence:	S8J1213
Percent Solids:	92.00	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.121	0.217	U
91-57-6	2-Methylnaphthalene	ND	0.0347	0.217	U
83-32-9	Acenaphthene	ND	0.00825	0.145	U
208-96-8	Acenaphthylene	ND	0.00503	0.145	U
120-12-7	Anthracene	ND	0.0210	0.145	U
56-55-3	Benzo(a)anthracene	ND	0.0146	0.145	U
50-32-8	Benzo(a)pyrene	ND	0.0252	0.145	U
205-99-2	Benzo(b)fluoranthene	ND	0.0203	0.145	U
191-24-2	Benzo(g,h,i)perylene	ND	0.0117	0.145	U
207-08-9	Benzo(k)fluoranthene	ND	0.0166	0.145	U
218-01-9	Chrysene	ND	0.00991	0.145	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.0143	0.145	U
206-44-0	Fluoranthene	ND	0.0136	0.145	U
86-73-7	Fluorene	ND	0.0121	0.145	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0155	0.145	U
91-20-3	Naphthalene	ND	0.0107	0.145	U
85-01-8	Phenanthrene	ND	0.0190	0.145	U
129-00-0	Pyrene	ND	0.0106	0.145	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\D\DATA\20181011\DS18775.D Vial: 10
Acq On : 11 Oct 2018 16:04 Operator: GCH
Sample : 8100452-05 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 16:55 2018 Quant Results File: 0802ABN.RES

Quant Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Wed Oct 10 10:16:58 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.54	152	159249	40.00	ug/kg	-0.07
22) Naphthalene-d8	6.83	136	609200	40.00	ug/kg	-0.07
39) Acenaphthene-d10	8.57	164	307467	40.00	ug/kg	-0.07
62) Phenanthrene-d10	10.05	188	538317	40.00	ug/kg	-0.07
76) Chrysene-d12	12.75	240	389183	40.00	ug/kg	-0.08
85) Perylene-d12	14.45	264	380947	40.00	ug/kg	-0.10
System Monitoring Compounds						
5) 2-Fluorophenol	4.18	112	375745	68.83	ug/kg	-0.08
Spiked Amount 100.000	Range 18 - 82		Recovery = 68.83%			
8) Phenol-d6	5.17	99	505436	72.91	ug/kg	-0.08
Spiked Amount 100.000	Range 20 - 88		Recovery = 72.91%			
23) Nitrobenzene-d5	6.10	82	201356	35.52	ug/kg	-0.12
Spiked Amount 50.000	Range 27 - 100		Recovery = 71.04%			
44) 2-Fluorobiphenyl	7.89	172	387132	34.11	ug/kg	-0.09
Spiked Amount 50.000	Range 27 - 105		Recovery = 68.22%			
66) 2,4,6-Tribromophenol	9.36	330	68356	60.08	ug/kg	-0.10
Spiked Amount 100.000	Range 24 - 115		Recovery = 60.08%			
79) p-Terphenyl-d14	11.62	244	329459	37.04	ug/kg	-0.02
Spiked Amount 50.000	Range 29 - 110		Recovery = 74.08%			

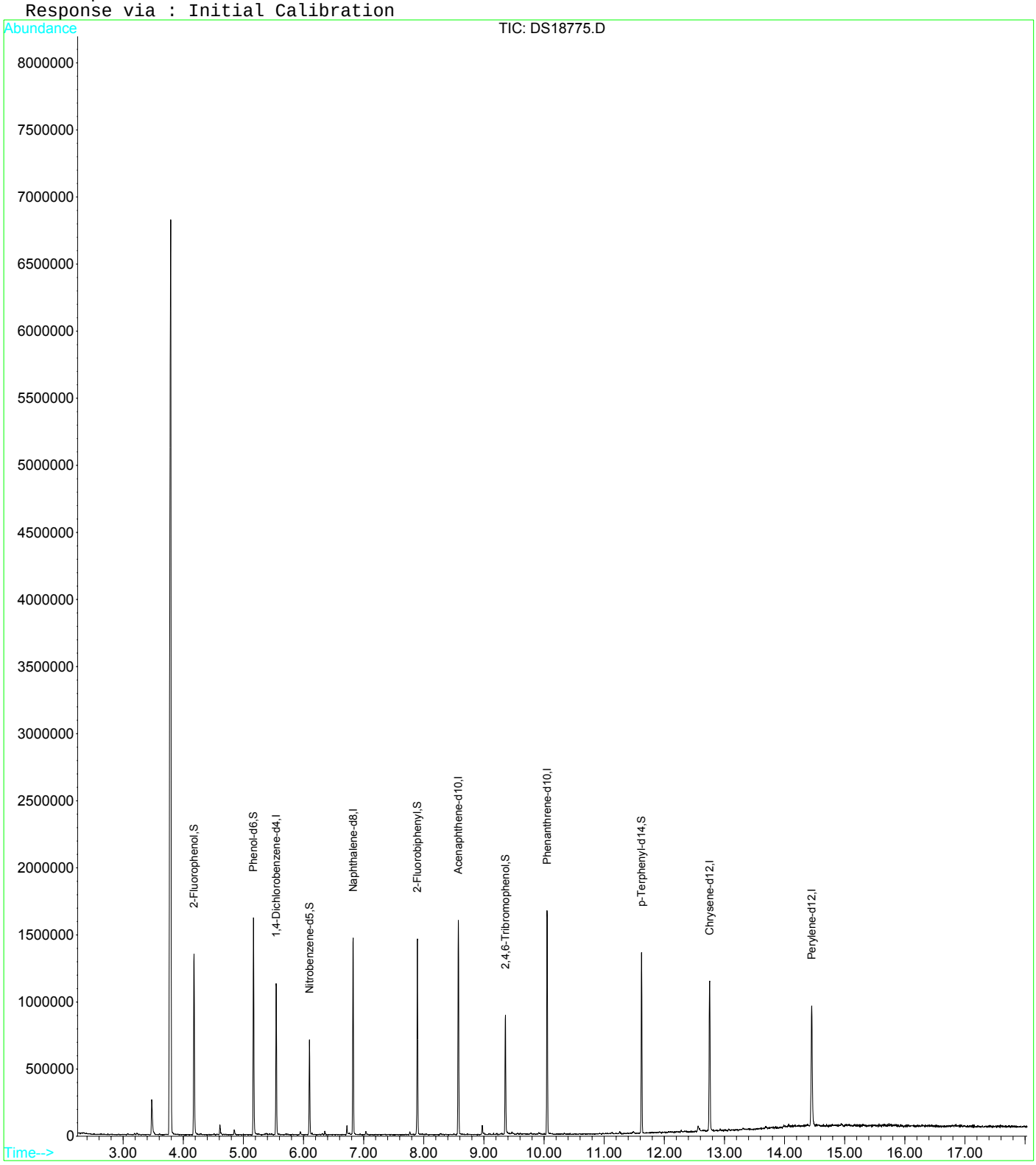
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\HPCHEM\D\DATA\20181011\DS18775.D Vial: 10
Acq On : 11 Oct 2018 16:04 Operator: GCH
Sample : 8100452-05 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 16:55 2018 Quant Results File: 0802ABN.RES

Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Mon Oct 15 10:25:43 2018
Response via : Initial Calibration



DS18775.D 0802ABN.M Tue Oct 16 12:44:04 2018 SS Page 2

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **NTP-6**
Lab Sample ID: **8100452-06**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:50	Prep Date:	10/11/18 08:03	File ID:	DS18776.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 16:32
Dilution:	1	Matrix:	Soil	Sequence:	S8J1213
Percent Solids:	87.70	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.0364	0.228	U
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.0234	0.152	U
95-95-4	2,4,5-Trichlorophenol	ND	0.0206	0.152	U
88-06-2	2,4,6-Trichlorophenol	ND	0.00950	0.152	U
120-83-2	2,4-Dichlorophenol	ND	0.0153	0.152	U
105-67-9	2,4-Dimethylphenol	ND	0.0149	0.152	U
51-28-5	2,4-Dinitrophenol	ND	0.0219	0.761	U
121-14-2	2,4-Dinitrotoluene	ND	0.0162	0.152	U
606-20-2	2,6-Dinitrotoluene	ND	0.0363	0.152	U
91-58-7	2-Chloronaphthalene	ND	0.0174	0.152	U
95-57-8	2-Chlorophenol	ND	0.0201	0.152	U
91-57-6	2-Methylnaphthalene	ND	0.0364	0.228	U
95-48-7	2-Methylphenol	ND	0.0300	0.152	U
88-74-4	2-Nitroaniline	ND	0.0122	0.152	U
88-75-5	2-Nitrophenol	ND	0.0169	0.152	U
91-94-1	3,3'-Dichlorobenzidine	ND	0.0160	0.152	U
106-44-5	3+4-Methylphenol	ND	0.0278	0.152	U
99-09-2	3-Nitroaniline	ND	0.0282	0.152	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	0.0286	0.380	U
101-55-3	4-Bromophenyl-phenyl ether	ND	0.0217	0.152	U
59-50-7	4-Chloro-3-methylphenol	ND	0.0239	0.152	U
106-47-8	4-Chloroaniline	ND	0.00531	0.152	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.00820	0.152	U
100-01-6	4-Nitroaniline	ND	0.0759	0.152	U
100-02-7	4-Nitrophenol	ND	0.00971	0.152	U
83-32-9	Acenaphthene	ND	0.00865	0.152	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **NTP-6**
Lab Sample ID: **8100452-06**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:50	Prep Date:	10/11/18 08:03	File ID:	DS18776.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 16:32
Dilution:	1	Matrix:	Soil	Sequence:	S8J1213
Percent Solids:	87.70	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
208-96-8	Acenaphthylene	ND	0.00528	0.152	U
98-86-2	Acetophenone	ND	0.0151	0.152	U
120-12-7	Anthracene	ND	0.0220	0.152	U
1912-24-9	Atrazine	ND	0.0143	0.152	U
100-52-7	Benzaldehyde	ND	0.0466	0.152	U
56-55-3	Benzo(a)anthracene	ND	0.0153	0.152	U
50-32-8	Benzo(a)pyrene	ND	0.0265	0.152	U
205-99-2	Benzo(b)fluoranthene	ND	0.0213	0.152	U
191-24-2	Benzo(g,h,i)perylene	ND	0.0123	0.152	U
207-08-9	Benzo(k)fluoranthene	ND	0.0174	0.152	U
92-52-4	Biphenyl	ND	0.0133	0.152	U
111-91-1	bis(2-chloroethoxy)methane	ND	0.0210	0.152	U
111-44-4	bis(2-chloroethyl)ether	ND	0.0166	0.152	U
108-60-1	bis(2-chloroisopropyl)ether	ND	0.0546	0.152	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	0.0303	0.152	U
85-68-7	Butylbenzylphthalate	ND	0.0138	0.152	U
105-60-2	Caprolactam	ND	0.0196	0.152	U
86-74-8	Carbazole	ND	0.0292	0.380	U
218-01-9	Chrysene	ND	0.0104	0.152	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.0151	0.152	U
132-64-9	Dibenzofuran	ND	0.00904	0.152	U
84-66-2	Diethylphthalate	ND	0.0294	0.152	U
131-11-3	Dimethylphthalate	0.0721	0.00942	0.152	J
84-74-2	Di-n-butylphthalate	ND	0.0620	0.152	U
117-84-0	Di-n-octylphthalate	ND	0.0311	0.152	U
206-44-0	Fluoranthene	ND	0.0143	0.152	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **NTP-6**
Lab Sample ID: **8100452-06**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:50	Prep Date:	10/11/18 08:03	File ID:	DS18776.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 16:32
Dilution:	1	Matrix:	Soil	Sequence:	S8J1213
Percent Solids:	87.70	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
86-73-7	Fluorene	ND	0.0127	0.152	U
118-74-1	Hexachlorobenzene	ND	0.0198	0.152	U
87-68-3	Hexachlorobutadiene	ND	0.0729	0.152	U
77-47-4	Hexachlorocyclopentadiene	ND	0.0633	0.380	U
67-72-1	Hexachloroethane	ND	0.0166	0.152	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0163	0.152	U
78-59-1	Isophorone	ND	0.00994	0.152	U
91-20-3	Naphthalene	ND	0.0112	0.152	U
98-95-3	Nitrobenzene	ND	0.0258	0.152	U
621-64-7	n-Nitroso-di-n-propylamine	ND	0.00813	0.152	U
86-30-6	n-Nitrosodiphenylamine	ND	0.0324	0.152	U
85-01-8	Phenanthrene	ND	0.0200	0.152	U
108-95-2	Phenol	ND	0.0123	0.152	U
129-00-0	Pyrene	ND	0.0112	0.152	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **NTP-6**
Lab Sample ID: **8100452-06**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:50	Prep Date:	10/11/18 08:03	File ID:	DS18776.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 16:32
Dilution:	1	Matrix:	Soil	Sequence:	S8J1213
Percent Solids:	87.70	Prep Method:	Sonication MS		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg dry)	RT	Q

J - Indicates estimated value
B - Indicates compound found in associated blank
D - Indicates result is based on a dilution

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\D\DATA\20181011\DS18776.D Vial: 11
Acq On : 11 Oct 2018 16:32 Operator: GCH
Sample : 8100452-06 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 16:55 2018 Quant Results File: 0802ABN.RES

Quant Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Wed Oct 10 10:16:58 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270B

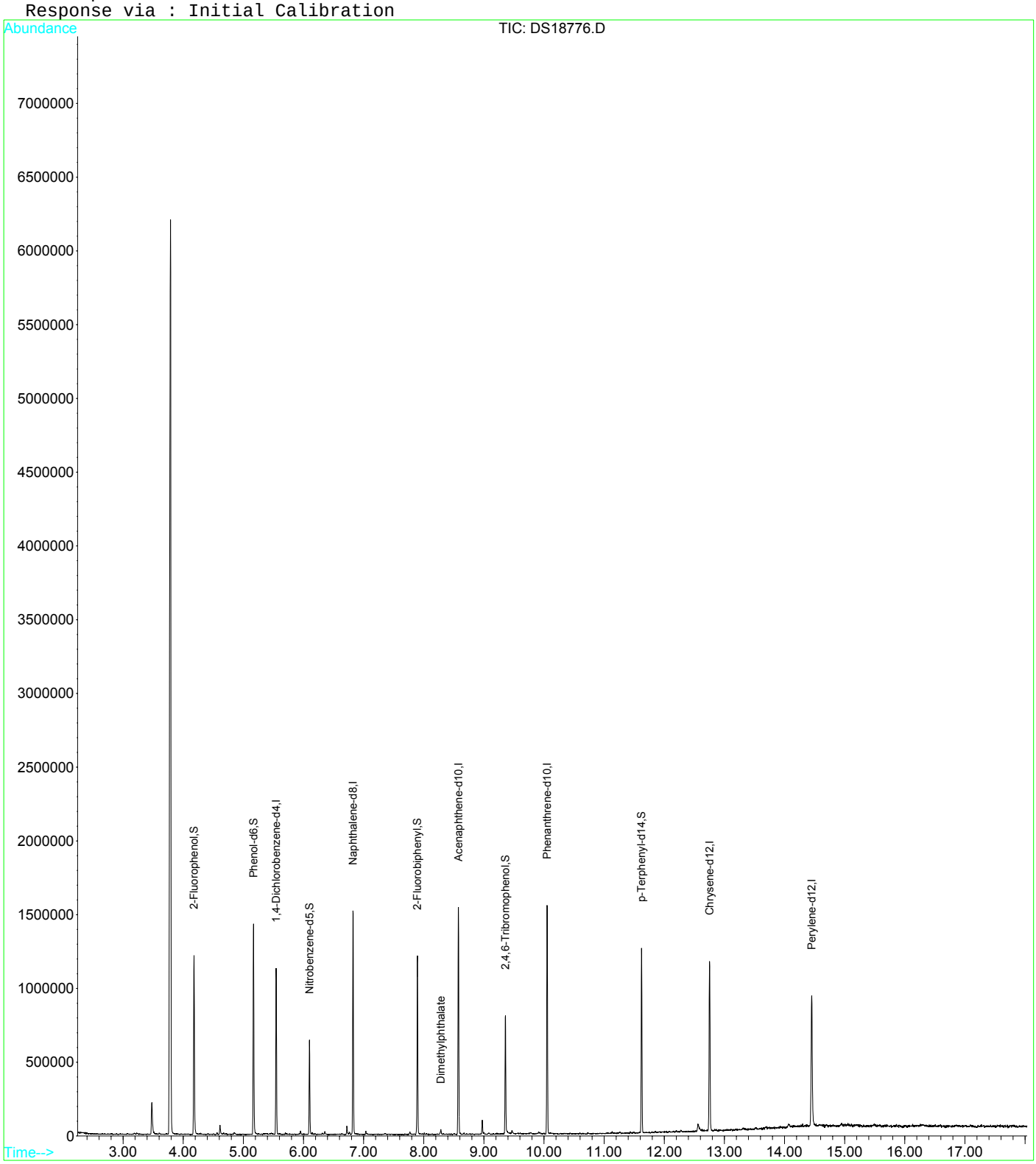
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.55	152	159499	40.00	ug/kg	-0.06
22) Naphthalene-d8	6.83	136	607328	40.00	ug/kg	-0.06
39) Acenaphthene-d10	8.57	164	297278	40.00	ug/kg	-0.07
62) Phenanthrene-d10	10.05	188	519141	40.00	ug/kg	-0.07
76) Chrysene-d12	12.75	240	384901	40.00	ug/kg	-0.08
85) Perylene-d12	14.45	264	374104	40.00	ug/kg	-0.10
System Monitoring Compounds						
5) 2-Fluorophenol	4.18	112	333649	61.03	ug/kg	-0.08
Spiked Amount 100.000	Range 18 - 82		Recovery = 61.03%			
8) Phenol-d6	5.17	99	449574	64.75	ug/kg	-0.08
Spiked Amount 100.000	Range 20 - 88		Recovery = 64.75%			
23) Nitrobenzene-d5	6.10	82	181211	32.06	ug/kg	-0.12
Spiked Amount 50.000	Range 27 - 100		Recovery = 64.12%			
44) 2-Fluorobiphenyl	7.90	172	334071	30.44	ug/kg	-0.09
Spiked Amount 50.000	Range 27 - 105		Recovery = 60.88%			
66) 2,4,6-Tribromophenol	9.36	330	61158	55.74	ug/kg	-0.10
Spiked Amount 100.000	Range 24 - 115		Recovery = 55.74%			
79) p-Terphenyl-d14	11.62	244	310860	35.34	ug/kg	-0.02
Spiked Amount 50.000	Range 29 - 110		Recovery = 70.68%			
Target Compounds						Qvalue
48) Dimethylphthalate	8.28	163	10007	0.95	ug/kg	89

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\HPCHEM\D\DATA\20181011\DS18776.D Vial: 11
Acq On : 11 Oct 2018 16:32 Operator: GCH
Sample : 8100452-06 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 16:55 2018 Quant Results File: 0802ABN.RES

Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Mon Oct 15 10:25:43 2018
Response via : Initial Calibration



DS18776.D 0802ABN.M Tue Oct 16 12:44:06 2018 SS Page 2

14 14.2.

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **NTP-7**
Lab Sample ID: **8100452-07**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:00	Prep Date:	10/11/18 08:03	File ID:	DS18777.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 17:01
Dilution:	1	Matrix:	Soil	Sequence:	S8J1213
Percent Solids:	91.36	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.122	0.219	U
91-57-6	2-Methylnaphthalene	ND	0.0349	0.219	U
83-32-9	Acenaphthene	ND	0.00831	0.146	U
208-96-8	Acenaphthylene	ND	0.00507	0.146	U
120-12-7	Anthracene	ND	0.0211	0.146	U
56-55-3	Benzo(a)anthracene	0.133	0.0147	0.146	J
50-32-8	Benzo(a)pyrene	0.105	0.0254	0.146	J
205-99-2	Benzo(b)fluoranthene	0.169	0.0205	0.146	
191-24-2	Benzo(g,h,i)perylene	0.124	0.0118	0.146	J
207-08-9	Benzo(k)fluoranthene	0.106	0.0167	0.146	J
218-01-9	Chrysene	0.134	0.00998	0.146	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.0144	0.146	U
206-44-0	Fluoranthene	0.193	0.0137	0.146	
86-73-7	Fluorene	ND	0.0122	0.146	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0157	0.146	U
91-20-3	Naphthalene	ND	0.0108	0.146	U
85-01-8	Phenanthrene	0.0964	0.0192	0.146	J
129-00-0	Pyrene	0.184	0.0107	0.146	

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\D\DATA\20181011\DS18777.D Vial: 12
Acq On : 11 Oct 2018 17:01 Operator: GCH
Sample : 8100452-07 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 17:23 2018 Quant Results File: 0802ABN.RES

Quant Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Wed Oct 10 10:16:58 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.55	152	174325	40.00	ug/kg	-0.06
22) Naphthalene-d8	6.83	136	649764	40.00	ug/kg	-0.06
39) Acenaphthene-d10	8.57	164	323492	40.00	ug/kg	-0.07
62) Phenanthrene-d10	10.05	188	554925	40.00	ug/kg	-0.07
76) Chrysene-d12	12.75	240	419384	40.00	ug/kg	-0.08
85) Perylene-d12	14.45	264	388875	40.00	ug/kg	-0.10
System Monitoring Compounds						
5) 2-Fluorophenol	4.18	112	405659	67.89	ug/kg	-0.08
Spiked Amount 100.000	Range 18 - 82		Recovery = 67.89%			
8) Phenol-d6	5.17	99	544457	71.75	ug/kg	-0.08
Spiked Amount 100.000	Range 20 - 88		Recovery = 71.75%			
23) Nitrobenzene-d5	6.10	82	225533	37.30	ug/kg	-0.12
Spiked Amount 50.000	Range 27 - 100		Recovery = 74.60%			
44) 2-Fluorobiphenyl	7.90	172	419126	35.10	ug/kg	-0.09
Spiked Amount 50.000	Range 27 - 105		Recovery = 70.20%			
66) 2,4,6-Tribromophenol	9.36	330	75193	64.11	ug/kg	-0.10
Spiked Amount 100.000	Range 24 - 115		Recovery = 64.11%			
79) p-Terphenyl-d14	11.62	244	352232	36.75	ug/kg	-0.02
Spiked Amount 50.000	Range 29 - 110		Recovery = 73.50%			

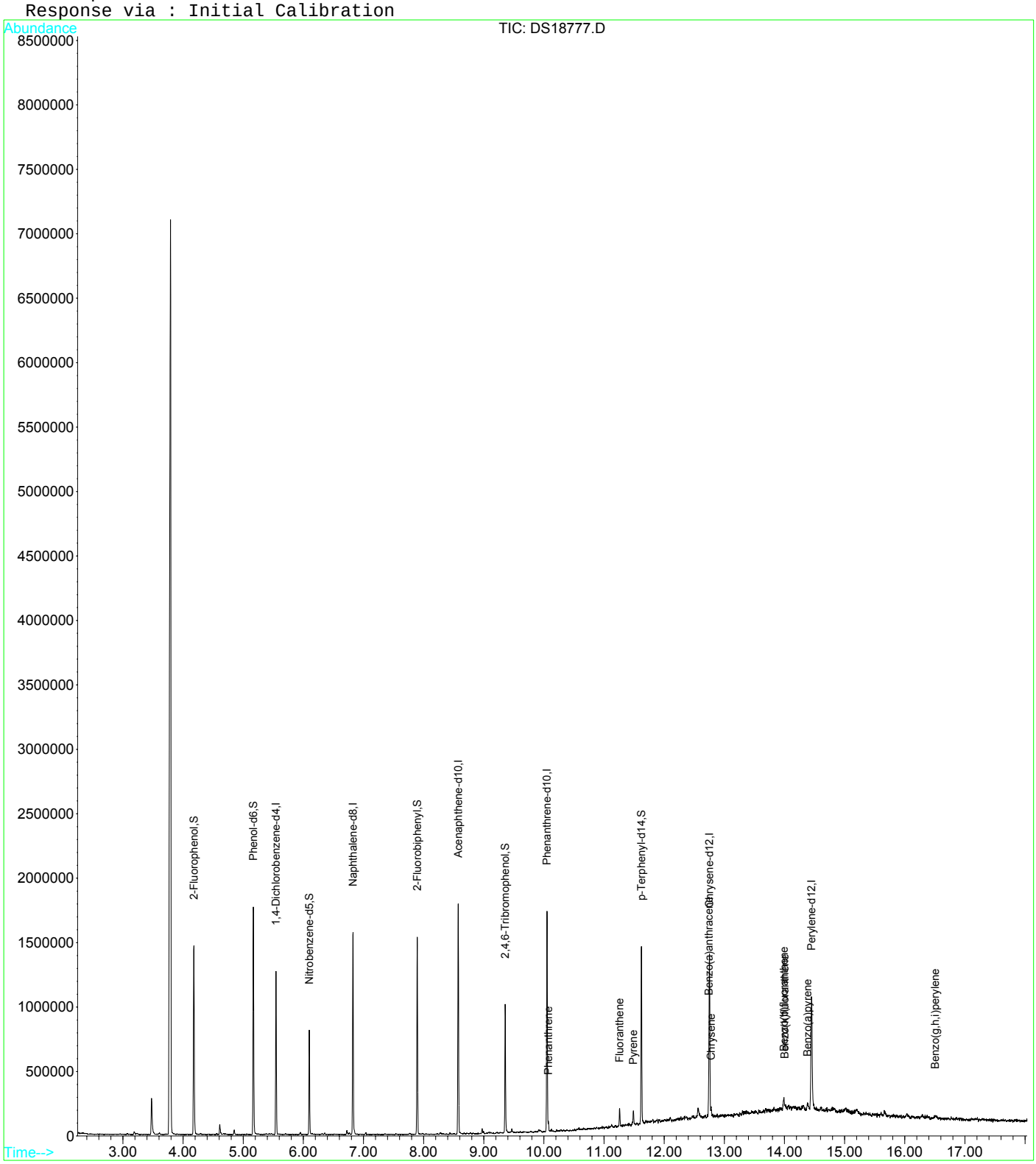
Target Compounds						Qvalue
71) Phenanthrene	10.08	178	21016	1.32	ug/kg	93
75) Fluoranthene	11.26	202	44262	2.64	ug/kg	96
78) Pyrene	11.49	202	40417	2.52	ug/kg	98
81) Benzo(a)anthracene	12.74	228	24823	1.82	ug/kg	81
83) Chrysene	12.78	228	24015	1.84	ug/kg	92
87) Benzo(b)fluoranthene	13.99	252	24866	2.32	ug/kg#	82
88) Benzo(k)fluoranthene	14.01	252	15919m	1.46	ug/kg	
89) Benzo(a)pyrene	14.38	252	15721	1.44	ug/kg	86
92) Benzo(g,h,i)perylene	16.51	276	17201m	1.70	ug/kg	

(#) = qualifier out of range (m) = manual integration
DS18777.D 0802ABN.M Tue Oct 16 12:44:08 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\D\DATA\20181011\DS18777.D Vial: 12
Acq On : 11 Oct 2018 17:01 Operator: GCH
Sample : 8100452-07 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 17:23 2018 Quant Results File: 0802ABN.RES

Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Mon Oct 15 10:25:43 2018
Response via : Initial Calibration



DS18777.D 0802ABN.M Tue Oct 16 12:44:08 2018 SS Page 2

14 14.2.

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **STP-1B**
Lab Sample ID: **8100452-08**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:15	Prep Date:	10/11/18 08:03	File ID:	DS18778.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 17:29
Dilution:	1	Matrix:	Soil	Sequence:	S8J1213
Percent Solids:	89.59	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.124	0.223	U
91-57-6	2-Methylnaphthalene	ND	0.0356	0.223	U
83-32-9	Acenaphthene	ND	0.00847	0.148	U
208-96-8	Acenaphthylene	ND	0.00517	0.148	U
120-12-7	Anthracene	ND	0.0215	0.148	U
56-55-3	Benzo(a)anthracene	ND	0.0150	0.148	U
50-32-8	Benzo(a)pyrene	ND	0.0259	0.148	U
205-99-2	Benzo(b)fluoranthene	ND	0.0209	0.148	U
191-24-2	Benzo(g,h,i)perylene	ND	0.0121	0.148	U
207-08-9	Benzo(k)fluoranthene	ND	0.0171	0.148	U
218-01-9	Chrysene	ND	0.0102	0.148	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.0147	0.148	U
206-44-0	Fluoranthene	ND	0.0140	0.148	U
86-73-7	Fluorene	ND	0.0124	0.148	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0160	0.148	U
91-20-3	Naphthalene	ND	0.0110	0.148	U
85-01-8	Phenanthrene	ND	0.0195	0.148	U
129-00-0	Pyrene	ND	0.0109	0.148	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\D\DATA\20181011\DS18778.D Vial: 13
Acq On : 11 Oct 2018 17:29 Operator: GCH
Sample : 8100452-08 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 17:56 2018 Quant Results File: 0802ABN.RES

Quant Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Wed Oct 10 10:16:58 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.54	152	160052	40.00	ug/kg	-0.06
22) Naphthalene-d8	6.83	136	608878	40.00	ug/kg	-0.06
39) Acenaphthene-d10	8.57	164	294400	40.00	ug/kg	-0.07
62) Phenanthrene-d10	10.05	188	519881	40.00	ug/kg	-0.07
76) Chrysene-d12	12.76	240	381925	40.00	ug/kg	-0.08
85) Perylene-d12	14.45	264	375896	40.00	ug/kg	-0.10
System Monitoring Compounds						
5) 2-Fluorophenol	4.18	112	397722	72.49	ug/kg	-0.08
Spiked Amount 100.000	Range 18 - 82		Recovery = 72.49%			
8) Phenol-d6	5.17	99	538634	77.31	ug/kg	-0.08
Spiked Amount 100.000	Range 20 - 88		Recovery = 77.31%			
23) Nitrobenzene-d5	6.10	82	217854	38.45	ug/kg	-0.12
Spiked Amount 50.000	Range 27 - 100		Recovery = 76.90%			
44) 2-Fluorobiphenyl	7.90	172	420201	38.66	ug/kg	-0.09
Spiked Amount 50.000	Range 27 - 105		Recovery = 77.32%			
66) 2,4,6-Tribromophenol	9.36	330	73752	67.12	ug/kg	-0.10
Spiked Amount 100.000	Range 24 - 115		Recovery = 67.12%			
79) p-Terphenyl-d14	11.62	244	352558	40.39	ug/kg	-0.02
Spiked Amount 50.000	Range 29 - 110		Recovery = 80.78%			

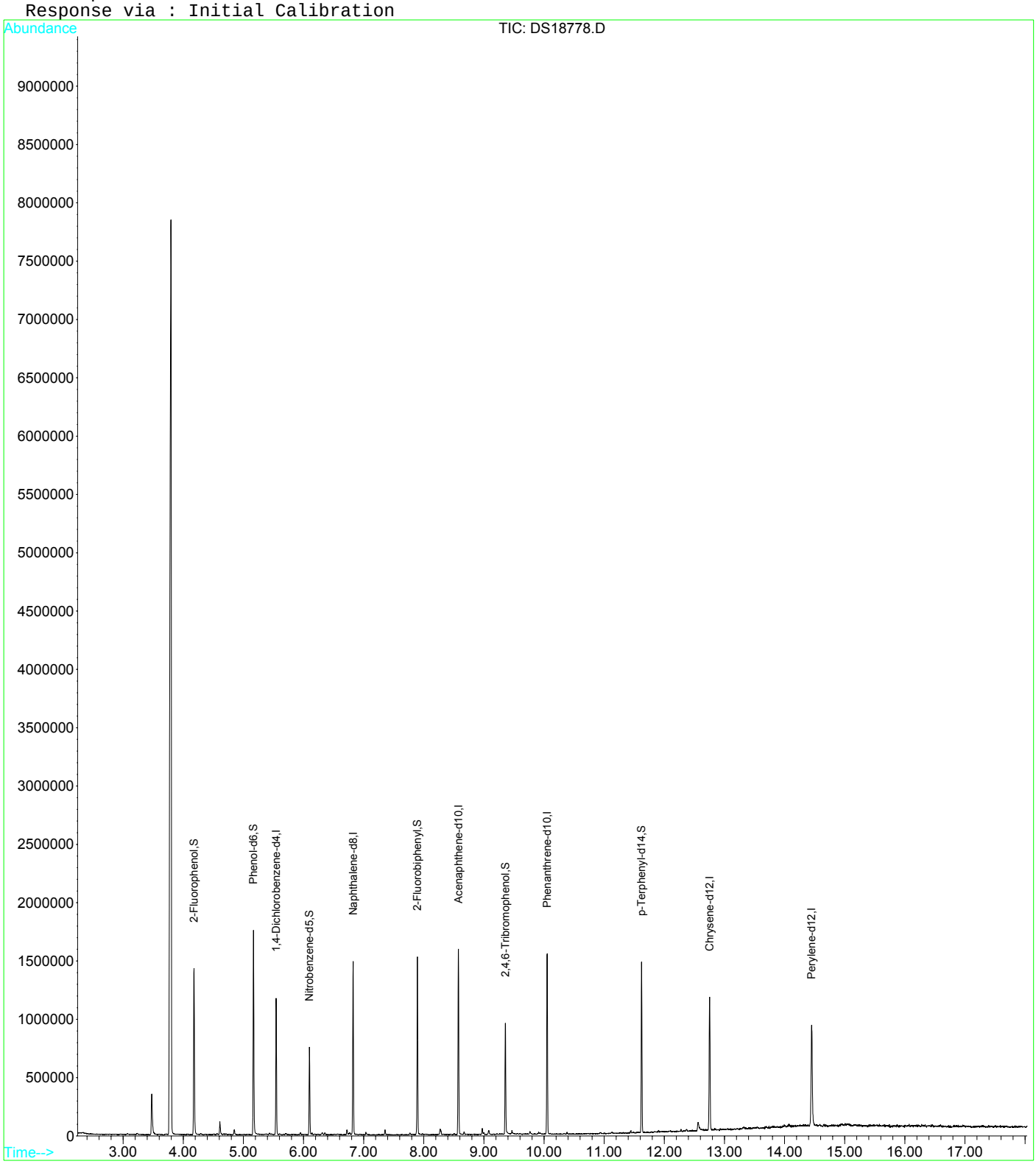
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
DS18778.D 0802ABN.M Tue Oct 16 12:44:10 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\D\DATA\20181011\DS18778.D Vial: 13
Acq On : 11 Oct 2018 17:29 Operator: GCH
Sample : 8100452-08 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 17:56 2018 Quant Results File: 0802ABN.RES

Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Mon Oct 15 10:25:43 2018
Response via : Initial Calibration



DS18778.D 0802ABN.M Tue Oct 16 12:44:10 2018 SS Page 2

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **STP-2B**
Lab Sample ID: **8100452-09**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:30	Prep Date:	10/11/18 08:03	File ID:	AS07401.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 17:26
Dilution:	1	Matrix:	Soil	Sequence:	S8J1212
Percent Solids:	91.55	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.121	0.218	U
91-57-6	2-Methylnaphthalene	ND	0.0348	0.218	U
83-32-9	Acenaphthene	ND	0.00829	0.145	U
208-96-8	Acenaphthylene	ND	0.00506	0.145	U
120-12-7	Anthracene	ND	0.0211	0.145	U
56-55-3	Benzo(a)anthracene	ND	0.0146	0.145	U
50-32-8	Benzo(a)pyrene	ND	0.0253	0.145	U
205-99-2	Benzo(b)fluoranthene	ND	0.0204	0.145	U
191-24-2	Benzo(g,h,i)perylene	ND	0.0118	0.145	U
207-08-9	Benzo(k)fluoranthene	ND	0.0167	0.145	U
218-01-9	Chrysene	ND	0.00996	0.145	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.0144	0.145	U
206-44-0	Fluoranthene	ND	0.0137	0.145	U
86-73-7	Fluorene	ND	0.0121	0.145	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0156	0.145	U
91-20-3	Naphthalene	ND	0.0108	0.145	U
85-01-8	Phenanthrene	ND	0.0191	0.145	U
129-00-0	Pyrene	ND	0.0107	0.145	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\A\DATA\20181011\AS07401.D Vial: 9
Acq On : 11 Oct 2018 17:26 Operator: GCH
Sample : 8100452-09 Inst : GCMS-A
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 11 17:57 2018 Quant Results File: 0824ABN.RES

Quant Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Oct 02 11:16:59 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.27	152	148181	40.00	ug/kg	0.00
21) Naphthalene-d8	7.54	136	560064	40.00	ug/kg	0.00
38) Acenaphthene-d10	9.31	164	296470	40.00	ug/kg	0.00
61) Phenanthrene-d10	10.81	188	568102	40.00	ug/kg	0.00
75) Chrysene-d12	13.67	240	628942	40.00	ug/kg	0.00
84) Perylene-d12	15.76	264	651720	40.00	ug/kg	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.97	112	275527	66.92	ug/kg	-0.03
Spiked Amount 100.000	Range 18 - 82		Recovery = 66.92%			
7) Phenol-d6	5.88	99	326363	66.98	ug/kg	0.00
Spiked Amount 100.000	Range 20 - 88		Recovery = 66.98%			
22) Nitrobenzene-d5	6.81	82	145665	38.52	ug/kg	-0.02
Spiked Amount 50.000	Range 27 - 100		Recovery = 77.04%			
43) 2-Fluorobiphenyl	8.61	172	381724	32.55	ug/kg	-0.02
Spiked Amount 50.000	Range 27 - 105		Recovery = 65.10%			
65) 2,4,6-Tribromophenol	10.10	330	120099	71.92	ug/kg	-0.01
Spiked Amount 100.000	Range 24 - 115		Recovery = 71.92%			
78) p-Terphenyl-d14	12.40	244	532800	34.04	ug/kg	0.01
Spiked Amount 50.000	Range 29 - 110		Recovery = 68.08%			

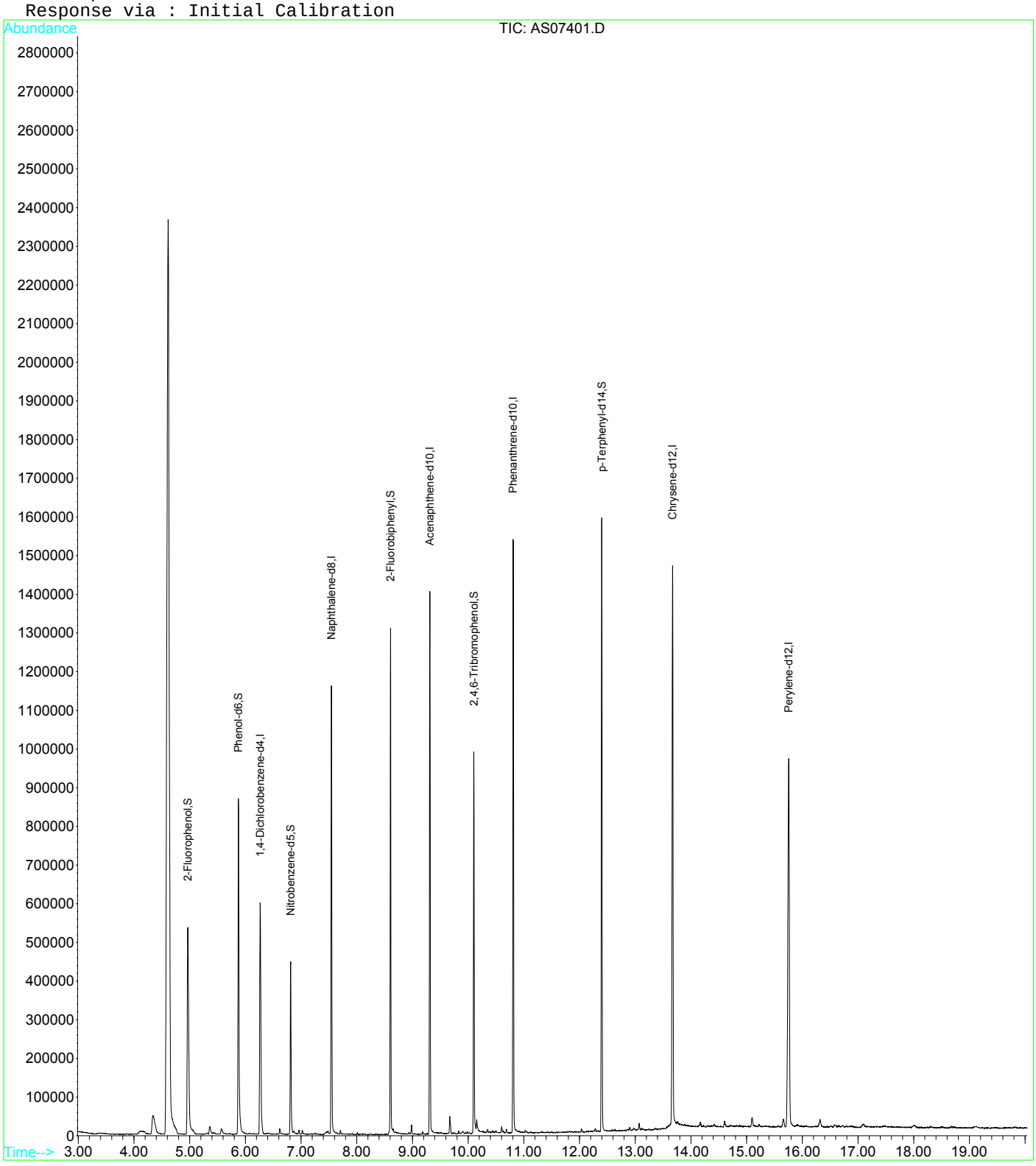
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
AS07401.D 0824ABN.M Fri Oct 12 15:12:04 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\A\DATA\20181011\AS07401.D Vial: 9
Acq On : 11 Oct 2018 17:26 Operator: GCH
Sample : 8100452-09 Inst : GCMS-A
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 11 17:57 2018 Quant Results File: 0824ABN.RES

Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Oct 02 11:16:59 2018
Response via : Initial Calibration



AS07401.D 0824ABN.M Fri Oct 12 15:12:04 2018 SS Page 2

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **STP-3B**
Lab Sample ID: **8100452-10**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:40	Prep Date:	10/11/18 08:03	File ID:	AS07396.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 14:58
Dilution:	1	Matrix:	Soil	Sequence:	S8J1212
Percent Solids:	91.53	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.121	0.219	U
91-57-6	2-Methylnaphthalene	ND	0.0349	0.219	U
83-32-9	Acenaphthene	ND	0.00829	0.145	U
208-96-8	Acenaphthylene	ND	0.00506	0.145	U
120-12-7	Anthracene	ND	0.0211	0.145	U
56-55-3	Benzo(a)anthracene	ND	0.0146	0.145	U
50-32-8	Benzo(a)pyrene	ND	0.0253	0.145	U
205-99-2	Benzo(b)fluoranthene	ND	0.0204	0.145	U
191-24-2	Benzo(g,h,i)perylene	ND	0.0118	0.145	U
207-08-9	Benzo(k)fluoranthene	ND	0.0167	0.145	U
218-01-9	Chrysene	ND	0.00996	0.145	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.0144	0.145	U
206-44-0	Fluoranthene	ND	0.0137	0.145	U
86-73-7	Fluorene	ND	0.0121	0.145	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0156	0.145	U
91-20-3	Naphthalene	ND	0.0108	0.145	U
85-01-8	Phenanthrene	ND	0.0191	0.145	U
129-00-0	Pyrene	ND	0.0107	0.145	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\A\DATA\20181011\AS07396.D Vial: 4
Acq On : 11 Oct 2018 14:58 Operator: GCH
Sample : 8100452-10 Inst : GCMS-A
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 11 16:02 2018 Quant Results File: 0824ABN.RES

Quant Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Thu Oct 11 15:59:28 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.27	152	137601	40.00	ug/kg	0.00
21) Naphthalene-d8	7.54	136	525512	40.00	ug/kg	0.00
38) Acenaphthene-d10	9.31	164	279789	40.00	ug/kg	0.00
61) Phenanthrene-d10	10.81	188	528787	40.00	ug/kg	0.00
75) Chrysene-d12	13.67	240	578999	40.00	ug/kg	0.00
84) Perylene-d12	15.75	264	603659	40.00	ug/kg	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.97	112	263114	68.82	ug/kg	-0.03
Spiked Amount 100.000	Range 18 - 82		Recovery = 68.82%			
7) Phenol-d6	5.87	99	301119	66.55	ug/kg	0.00
Spiked Amount 100.000	Range 20 - 88		Recovery = 66.55%			
22) Nitrobenzene-d5	6.81	82	139038	39.19	ug/kg	-0.03
Spiked Amount 50.000	Range 27 - 100		Recovery = 78.38%			
43) 2-Fluorobiphenyl	8.61	172	357978	32.35	ug/kg	-0.02
Spiked Amount 50.000	Range 27 - 105		Recovery = 64.70%			
65) 2,4,6-Tribromophenol	10.10	330	116012	74.23	ug/kg	-0.01
Spiked Amount 100.000	Range 24 - 115		Recovery = 74.23%			
78) p-Terphenyl-d14	12.40	244	524654	36.41	ug/kg	0.01
Spiked Amount 50.000	Range 29 - 110		Recovery = 72.82%			

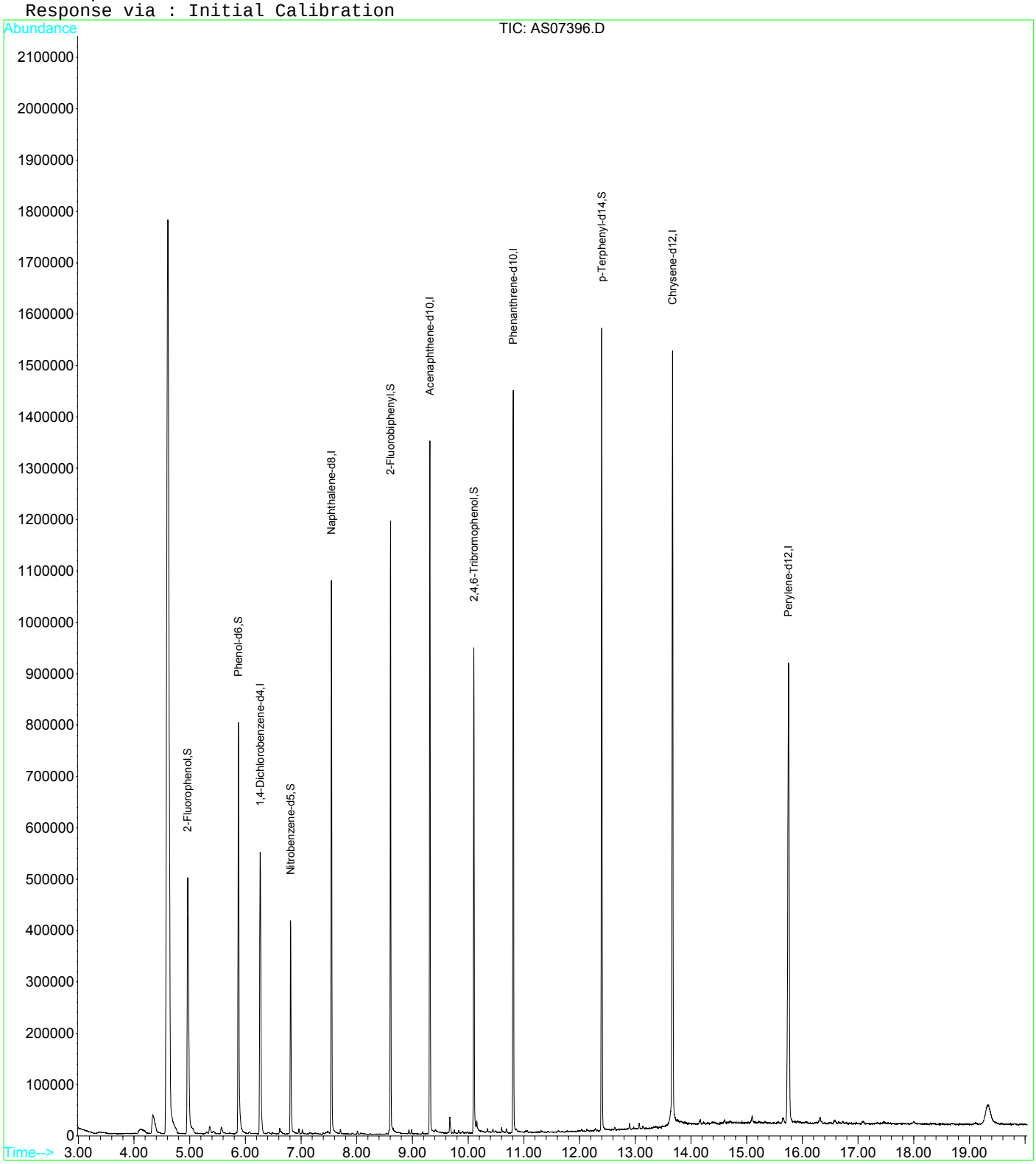
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
AS07396.D 0824ABN.M Fri Oct 12 15:11:52 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\A\DATA\20181011\AS07396.D Vial: 4
Acq On : 11 Oct 2018 14:58 Operator: GCH
Sample : 8100452-10 Inst : GCMS-A
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 11 16:02 2018 Quant Results File: 0824ABN.RES

Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Oct 02 11:16:59 2018
Response via : Initial Calibration



AS07396.D 0824ABN.M Fri Oct 12 15:11:52 2018 SS Page 2

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **STP-4A**
Lab Sample ID: **8100452-11**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	AS07397.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 15:28
Dilution:	1	Matrix:	Soil	Sequence:	S8J1212
Percent Solids:	90.63	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.122	0.221	U
91-57-6	2-Methylnaphthalene	ND	0.0352	0.221	U
83-32-9	Acenaphthene	ND	0.00837	0.147	U
208-96-8	Acenaphthylene	ND	0.00511	0.147	U
120-12-7	Anthracene	ND	0.0213	0.147	U
56-55-3	Benzo(a)anthracene	ND	0.0148	0.147	U
50-32-8	Benzo(a)pyrene	ND	0.0256	0.147	U
205-99-2	Benzo(b)fluoranthene	ND	0.0206	0.147	U
191-24-2	Benzo(g,h,i)perylene	ND	0.0119	0.147	U
207-08-9	Benzo(k)fluoranthene	ND	0.0169	0.147	U
218-01-9	Chrysene	ND	0.0101	0.147	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.0146	0.147	U
206-44-0	Fluoranthene	ND	0.0138	0.147	U
86-73-7	Fluorene	ND	0.0122	0.147	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0158	0.147	U
91-20-3	Naphthalene	ND	0.0109	0.147	U
85-01-8	Phenanthrene	ND	0.0193	0.147	U
129-00-0	Pyrene	ND	0.0108	0.147	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\A\DATA\20181011\AS07397.D Vial: 5
Acq On : 11 Oct 2018 15:28 Operator: GCH
Sample : 8100452-11 Inst : GCMS-A
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 11 16:03 2018 Quant Results File: 0824ABN.RES

Quant Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Thu Oct 11 15:59:28 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.27	152	144157	40.00	ug/kg	0.00
21) Naphthalene-d8	7.54	136	544435	40.00	ug/kg	0.00
38) Acenaphthene-d10	9.31	164	292101	40.00	ug/kg	0.00
61) Phenanthrene-d10	10.81	188	558645	40.00	ug/kg	0.00
75) Chrysene-d12	13.67	240	606407	40.00	ug/kg	0.00
84) Perylene-d12	15.75	264	627427	40.00	ug/kg	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.97	112	239574	59.81	ug/kg	-0.03
Spiked Amount 100.000	Range 18 - 82		Recovery = 59.81%			
7) Phenol-d6	5.88	99	286179	60.38	ug/kg	0.01
Spiked Amount 100.000	Range 20 - 88		Recovery = 60.38%			
22) Nitrobenzene-d5	6.81	82	129974	35.36	ug/kg	-0.03
Spiked Amount 50.000	Range 27 - 100		Recovery = 70.72%			
43) 2-Fluorobiphenyl	8.61	172	331539	28.69	ug/kg	-0.02
Spiked Amount 50.000	Range 27 - 105		Recovery = 57.38%			
65) 2,4,6-Tribromophenol	10.10	330	105023	65.04	ug/kg	-0.01
Spiked Amount 100.000	Range 24 - 115		Recovery = 65.04%			
78) p-Terphenyl-d14	12.40	244	457486	30.32	ug/kg	0.01
Spiked Amount 50.000	Range 29 - 110		Recovery = 60.64%			

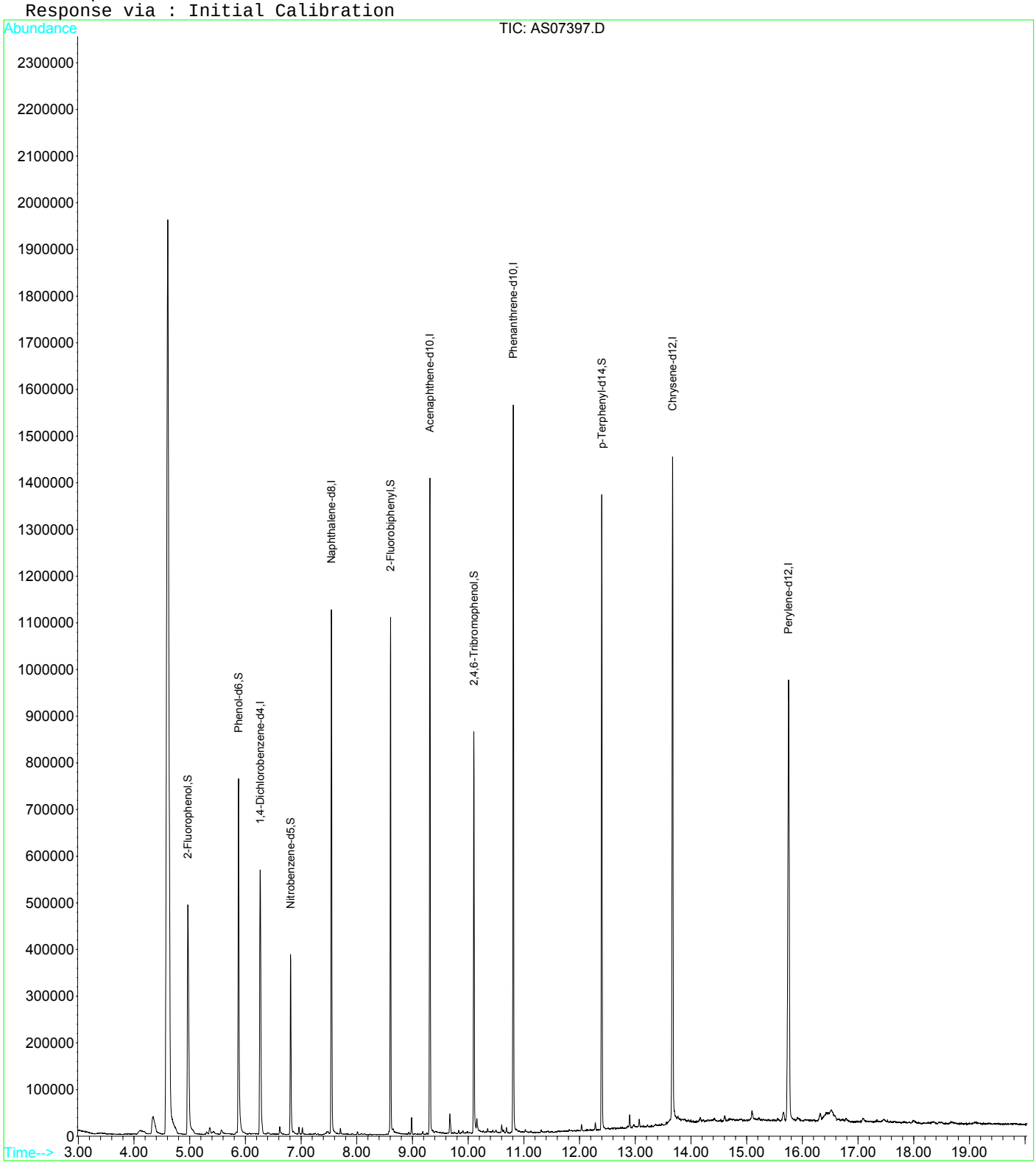
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
AS07397.D 0824ABN.M Fri Oct 12 15:11:54 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\A\DATA\20181011\AS07397.D Vial: 5
Acq On : 11 Oct 2018 15:28 Operator: GCH
Sample : 8100452-11 Inst : GCMS-A
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 11 16:03 2018 Quant Results File: 0824ABN.RES

Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Oct 02 11:16:59 2018
Response via : Initial Calibration



AS07397.D 0824ABN.M Fri Oct 12 15:11:55 2018 SS Page 2

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **STP-4B**
Lab Sample ID: **8100452-12**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	AS07398.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 15:57
Dilution:	1	Matrix:	Soil	Sequence:	S8J1212
Percent Solids:	91.70	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.0348	0.218	U
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.0224	0.145	U
95-95-4	2,4,5-Trichlorophenol	ND	0.0197	0.145	U
88-06-2	2,4,6-Trichlorophenol	ND	0.00908	0.145	U
120-83-2	2,4-Dichlorophenol	ND	0.0146	0.145	U
105-67-9	2,4-Dimethylphenol	ND	0.0143	0.145	U
51-28-5	2,4-Dinitrophenol	ND	0.0209	0.727	U
121-14-2	2,4-Dinitrotoluene	ND	0.0155	0.145	U
606-20-2	2,6-Dinitrotoluene	ND	0.0347	0.145	U
91-58-7	2-Chloronaphthalene	ND	0.0167	0.145	U
95-57-8	2-Chlorophenol	ND	0.0192	0.145	U
91-57-6	2-Methylnaphthalene	ND	0.0348	0.218	U
95-48-7	2-Methylphenol	ND	0.0287	0.145	U
88-74-4	2-Nitroaniline	ND	0.0117	0.145	U
88-75-5	2-Nitrophenol	ND	0.0161	0.145	U
91-94-1	3,3'-Dichlorobenzidine	ND	0.0153	0.145	U
106-44-5	3+4-Methylphenol	ND	0.0266	0.145	U
99-09-2	3-Nitroaniline	ND	0.0269	0.145	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	0.0274	0.363	U
101-55-3	4-Bromophenyl-phenyl ether	ND	0.0207	0.145	U
59-50-7	4-Chloro-3-methylphenol	ND	0.0229	0.145	U
106-47-8	4-Chloroaniline	ND	0.00508	0.145	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.00784	0.145	U
100-01-6	4-Nitroaniline	ND	0.0726	0.145	U
100-02-7	4-Nitrophenol	ND	0.00929	0.145	U
83-32-9	Acenaphthene	ND	0.00828	0.145	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **STP-4B**
Lab Sample ID: **8100452-12**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	AS07398.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 15:57
Dilution:	1	Matrix:	Soil	Sequence:	S8J1212
Percent Solids:	91.70	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
208-96-8	Acenaphthylene	ND	0.00505	0.145	U
98-86-2	Acetophenone	ND	0.0144	0.145	U
120-12-7	Anthracene	ND	0.0210	0.145	U
1912-24-9	Atrazine	ND	0.0136	0.145	U
100-52-7	Benzaldehyde	ND	0.0446	0.145	U
56-55-3	Benzo(a)anthracene	ND	0.0146	0.145	U
50-32-8	Benzo(a)pyrene	ND	0.0253	0.145	U
205-99-2	Benzo(b)fluoranthene	ND	0.0204	0.145	U
191-24-2	Benzo(g,h,i)perylene	ND	0.0118	0.145	U
207-08-9	Benzo(k)fluoranthene	ND	0.0167	0.145	U
92-52-4	Biphenyl	ND	0.0128	0.145	U
111-91-1	bis(2-chloroethoxy)methane	ND	0.0201	0.145	U
111-44-4	bis(2-chloroethyl)ether	ND	0.0159	0.145	U
108-60-1	bis(2-chloroisopropyl)ether	ND	0.0522	0.145	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	0.0290	0.145	U
85-68-7	Butylbenzylphthalate	ND	0.0132	0.145	U
105-60-2	Caprolactam	ND	0.0188	0.145	U
86-74-8	Carbazole	ND	0.0279	0.363	U
218-01-9	Chrysene	ND	0.00995	0.145	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.0144	0.145	U
132-64-9	Dibenzofuran	ND	0.00865	0.145	U
84-66-2	Diethylphthalate	ND	0.0281	0.145	U
131-11-3	Dimethylphthalate	0.0632	0.00901	0.145	J
84-74-2	Di-n-butylphthalate	ND	0.0593	0.145	U
117-84-0	Di-n-octylphthalate	ND	0.0298	0.145	U
206-44-0	Fluoranthene	ND	0.0136	0.145	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **STP-4B**
Lab Sample ID: **8100452-12**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	AS07398.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 15:57
Dilution:	1	Matrix:	Soil	Sequence:	S8J1212
Percent Solids:	91.70	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
86-73-7	Fluorene	ND	0.0121	0.145	U
118-74-1	Hexachlorobenzene	ND	0.0190	0.145	U
87-68-3	Hexachlorobutadiene	ND	0.0697	0.145	U
77-47-4	Hexachlorocyclopentadiene	ND	0.0605	0.363	U
67-72-1	Hexachloroethane	ND	0.0159	0.145	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0156	0.145	U
78-59-1	Isophorone	ND	0.00951	0.145	U
91-20-3	Naphthalene	ND	0.0108	0.145	U
98-95-3	Nitrobenzene	ND	0.0246	0.145	U
621-64-7	n-Nitroso-di-n-propylamine	ND	0.00778	0.145	U
86-30-6	n-Nitrosodiphenylamine	ND	0.0310	0.145	U
85-01-8	Phenanthrene	ND	0.0191	0.145	U
108-95-2	Phenol	ND	0.0118	0.145	U
129-00-0	Pyrene	ND	0.0107	0.145	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **STP-4B**
Lab Sample ID: **8100452-12**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	AS07398.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 15:57
Dilution:	1	Matrix:	Soil	Sequence:	S8J1212
Percent Solids:	91.70	Prep Method:	Sonication MS		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg dry)	RT	Q

J - Indicates estimated value
B - Indicates compound found in associated blank
D - Indicates result is based on a dilution

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\A\DATA\20181011\AS07398.D Vial: 6
Acq On : 11 Oct 2018 15:57 Operator: GCH
Sample : 8100452-12 Inst : GCMS-A
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 11 16:58 2018 Quant Results File: 0824ABN.RES

Quant Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Oct 02 11:16:59 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270A

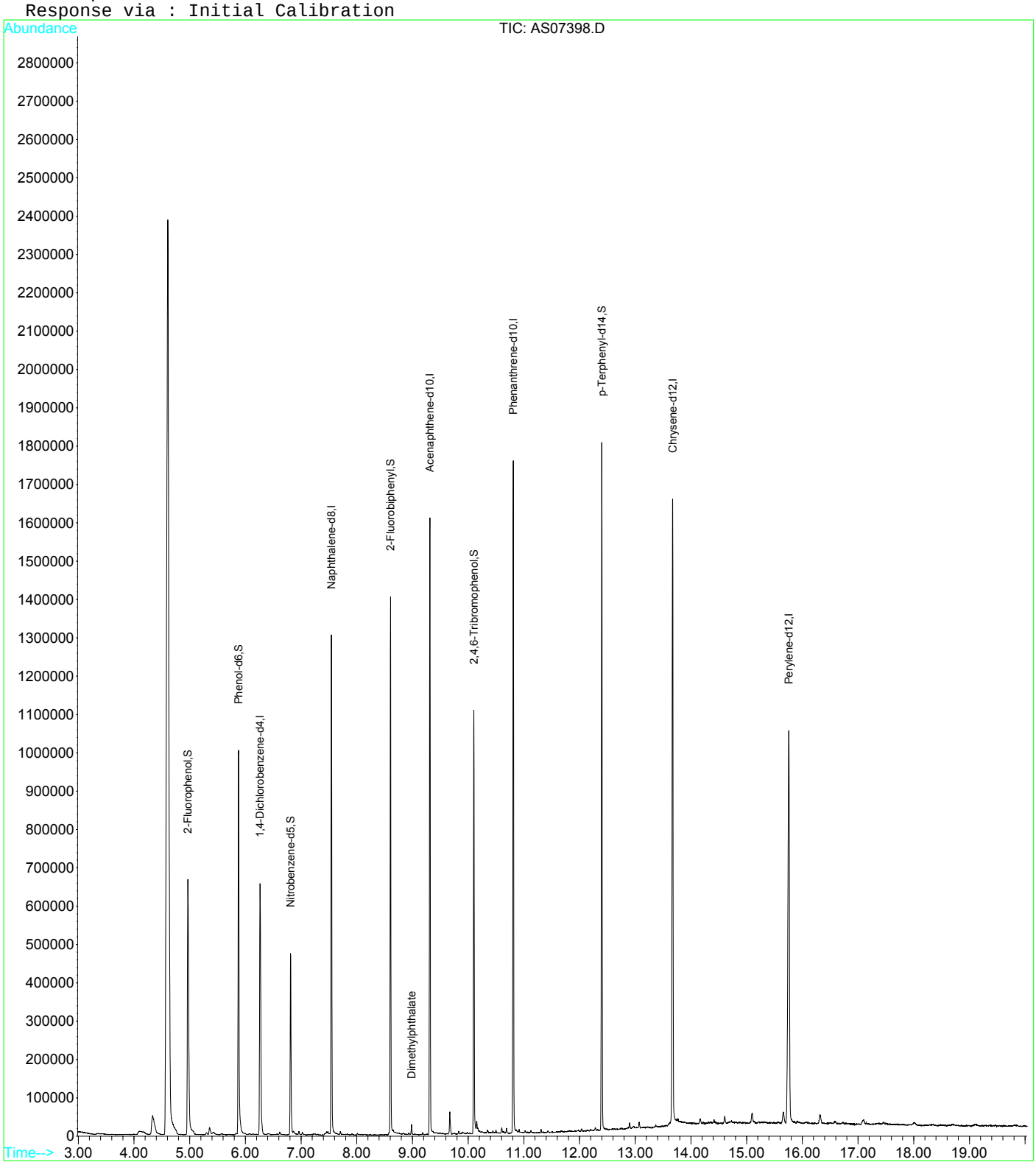
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.26	152	160040	40.00	ug/kg	0.00
21) Naphthalene-d8	7.54	136	621406	40.00	ug/kg	0.00
38) Acenaphthene-d10	9.31	164	331206	40.00	ug/kg	0.00
61) Phenanthrene-d10	10.81	188	635462	40.00	ug/kg	0.00
75) Chrysene-d12	13.67	240	691875	40.00	ug/kg	0.00
84) Perylene-d12	15.76	264	723702	40.00	ug/kg	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.97	112	300876	67.66	ug/kg	-0.03
Spiked Amount 100.000	Range 18 - 82		Recovery = 67.66%			
7) Phenol-d6	5.88	99	360028	68.42	ug/kg	0.01
Spiked Amount 100.000	Range 20 - 88		Recovery = 68.42%			
22) Nitrobenzene-d5	6.81	82	160092	38.16	ug/kg	-0.03
Spiked Amount 50.000	Range 27 - 100		Recovery = 76.32%			
43) 2-Fluorobiphenyl	8.61	172	418240	31.92	ug/kg	-0.02
Spiked Amount 50.000	Range 27 - 105		Recovery = 63.84%			
65) 2,4,6-Tribromophenol	10.10	330	133633	71.60	ug/kg	-0.01
Spiked Amount 100.000	Range 24 - 115		Recovery = 71.60%			
78) p-Terphenyl-d14	12.40	244	588569	34.18	ug/kg	0.01
Spiked Amount 50.000	Range 29 - 110		Recovery = 68.36%			
Target Compounds						Qvalue
47) Dimethylphthalate	8.98	163	10534	0.87	ug/kg	99

(#) = qualifier out of range (m) = manual integration
AS07398.D 0824ABN.M Fri Oct 12 15:11:57 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\A\DATA\20181011\AS07398.D Vial: 6
Acq On : 11 Oct 2018 15:57 Operator: GCH
Sample : 8100452-12 Inst : GCMS-A
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 11 16:58 2018 Quant Results File: 0824ABN.RES

Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Oct 02 11:16:59 2018
Response via : Initial Calibration



AS07398.D 0824ABN.M Fri Oct 12 15:11:57 2018 SS Page 2

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **STP-5**
Lab Sample ID: **8100452-13**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	AS07399.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 16:27
Dilution:	1	Matrix:	Soil	Sequence:	S8J1212
Percent Solids:	92.63	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.120	0.216	U
91-57-6	2-Methylnaphthalene	ND	0.0344	0.216	U
83-32-9	Acenaphthene	ND	0.00819	0.144	U
208-96-8	Acenaphthylene	ND	0.00500	0.144	U
120-12-7	Anthracene	ND	0.0208	0.144	U
56-55-3	Benzo(a)anthracene	ND	0.0145	0.144	U
50-32-8	Benzo(a)pyrene	ND	0.0250	0.144	U
205-99-2	Benzo(b)fluoranthene	ND	0.0202	0.144	U
191-24-2	Benzo(g,h,i)perylene	ND	0.0117	0.144	U
207-08-9	Benzo(k)fluoranthene	ND	0.0165	0.144	U
218-01-9	Chrysene	ND	0.00985	0.144	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.0142	0.144	U
206-44-0	Fluoranthene	ND	0.0135	0.144	U
86-73-7	Fluorene	ND	0.0120	0.144	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0154	0.144	U
91-20-3	Naphthalene	ND	0.0106	0.144	U
85-01-8	Phenanthrene	ND	0.0189	0.144	U
129-00-0	Pyrene	ND	0.0106	0.144	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\A\DATA\20181011\AS07399.D Vial: 7
Acq On : 11 Oct 2018 16:27 Operator: GCH
Sample : 8100452-13 Inst : GCMS-A
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 11 16:58 2018 Quant Results File: 0824ABN.RES

Quant Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Oct 02 11:16:59 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.27	152	144929	40.00	ug/kg	0.00
21) Naphthalene-d8	7.54	136	551744	40.00	ug/kg	0.00
38) Acenaphthene-d10	9.31	164	296526	40.00	ug/kg	0.00
61) Phenanthrene-d10	10.81	188	563939	40.00	ug/kg	0.00
75) Chrysene-d12	13.67	240	621689	40.00	ug/kg	0.00
84) Perylene-d12	15.75	264	638170	40.00	ug/kg	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.97	112	237168	58.90	ug/kg	-0.03
Spiked Amount 100.000	Range 18 - 82		Recovery = 58.90%			
7) Phenol-d6	5.88	99	278926	58.53	ug/kg	0.01
Spiked Amount 100.000	Range 20 - 88		Recovery = 58.53%			
22) Nitrobenzene-d5	6.81	82	128849	34.59	ug/kg	-0.03
Spiked Amount 50.000	Range 27 - 100		Recovery = 69.18%			
43) 2-Fluorobiphenyl	8.61	172	327959	27.96	ug/kg	-0.02
Spiked Amount 50.000	Range 27 - 105		Recovery = 55.92%			
65) 2,4,6-Tribromophenol	10.10	330	103360	63.63	ug/kg	-0.01
Spiked Amount 100.000	Range 24 - 115		Recovery = 63.63%			
78) p-Terphenyl-d14	12.40	244	463219	29.94	ug/kg	0.01
Spiked Amount 50.000	Range 29 - 110		Recovery = 59.88%			

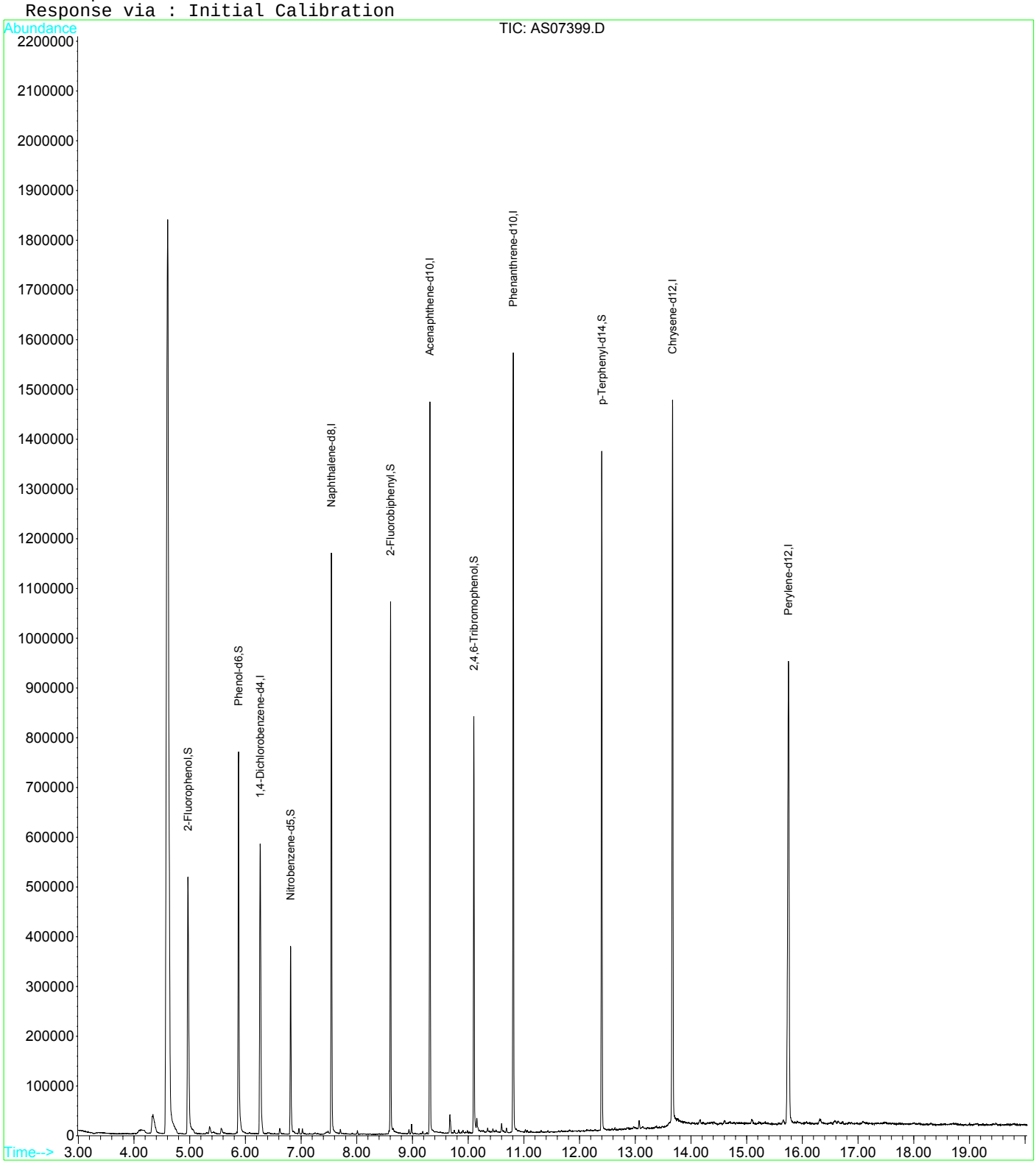
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
AS07399.D 0824ABN.M Fri Oct 12 15:11:59 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\A\DATA\20181011\AS07399.D Vial: 7
Acq On : 11 Oct 2018 16:27 Operator: GCH
Sample : 8100452-13 Inst : GCMS-A
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 11 16:58 2018 Quant Results File: 0824ABN.RES

Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Oct 02 11:16:59 2018
Response via : Initial Calibration



AS07399.D 0824ABN.M Fri Oct 12 15:11:59 2018 SS Page 2

14 14.2.

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **STP-7**
Lab Sample ID: **8100452-14**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	AS07400.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 16:57
Dilution:	1	Matrix:	Soil	Sequence:	S8J1212
Percent Solids:	92.94	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.0343	0.215	U
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.0221	0.143	U
95-95-4	2,4,5-Trichlorophenol	ND	0.0195	0.143	U
88-06-2	2,4,6-Trichlorophenol	ND	0.00896	0.143	U
120-83-2	2,4-Dichlorophenol	ND	0.0144	0.143	U
105-67-9	2,4-Dimethylphenol	ND	0.0141	0.143	U
51-28-5	2,4-Dinitrophenol	ND	0.0207	0.718	U
121-14-2	2,4-Dinitrotoluene	ND	0.0153	0.143	U
606-20-2	2,6-Dinitrotoluene	ND	0.0342	0.143	U
91-58-7	2-Chloronaphthalene	ND	0.0165	0.143	U
95-57-8	2-Chlorophenol	ND	0.0189	0.143	U
91-57-6	2-Methylnaphthalene	ND	0.0343	0.215	U
95-48-7	2-Methylphenol	ND	0.0283	0.143	U
88-74-4	2-Nitroaniline	ND	0.0115	0.143	U
88-75-5	2-Nitrophenol	ND	0.0159	0.143	U
91-94-1	3,3'-Dichlorobenzidine	ND	0.0151	0.143	U
106-44-5	3+4-Methylphenol	ND	0.0263	0.143	U
99-09-2	3-Nitroaniline	ND	0.0266	0.143	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	0.0270	0.358	U
101-55-3	4-Bromophenyl-phenyl ether	ND	0.0204	0.143	U
59-50-7	4-Chloro-3-methylphenol	ND	0.0226	0.143	U
106-47-8	4-Chloroaniline	ND	0.00501	0.143	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.00774	0.143	U
100-01-6	4-Nitroaniline	ND	0.0717	0.143	U
100-02-7	4-Nitrophenol	ND	0.00917	0.143	U
83-32-9	Acenaphthene	ND	0.00817	0.143	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **STP-7**
Lab Sample ID: **8100452-14**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	AS07400.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 16:57
Dilution:	1	Matrix:	Soil	Sequence:	S8J1212
Percent Solids:	92.94	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
208-96-8	Acenaphthylene	ND	0.00498	0.143	U
98-86-2	Acetophenone	ND	0.0142	0.143	U
120-12-7	Anthracene	ND	0.0208	0.143	U
1912-24-9	Atrazine	ND	0.0135	0.143	U
100-52-7	Benzaldehyde	ND	0.0440	0.143	U
56-55-3	Benzo(a)anthracene	ND	0.0144	0.143	U
50-32-8	Benzo(a)pyrene	ND	0.0250	0.143	U
205-99-2	Benzo(b)fluoranthene	ND	0.0201	0.143	U
191-24-2	Benzo(g,h,i)perylene	ND	0.0116	0.143	U
207-08-9	Benzo(k)fluoranthene	ND	0.0165	0.143	U
92-52-4	Biphenyl	ND	0.0126	0.143	U
111-91-1	bis(2-chloroethoxy)methane	ND	0.0198	0.143	U
111-44-4	bis(2-chloroethyl)ether	ND	0.0157	0.143	U
108-60-1	bis(2-chloroisopropyl)ether	ND	0.0515	0.143	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	0.0286	0.143	U
85-68-7	Butylbenzylphthalate	ND	0.0130	0.143	U
105-60-2	Caprolactam	ND	0.0185	0.143	U
86-74-8	Carbazole	ND	0.0275	0.358	U
218-01-9	Chrysene	ND	0.00981	0.143	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.0142	0.143	U
132-64-9	Dibenzofuran	ND	0.00853	0.143	U
84-66-2	Diethylphthalate	ND	0.0278	0.143	U
131-11-3	Dimethylphthalate	ND	0.00889	0.143	U
84-74-2	Di-n-butylphthalate	ND	0.0585	0.143	U
117-84-0	Di-n-octylphthalate	ND	0.0294	0.143	U
206-44-0	Fluoranthene	ND	0.0135	0.143	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
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E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **STP-7**
Lab Sample ID: **8100452-14**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	AS07400.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 16:57
Dilution:	1	Matrix:	Soil	Sequence:	S8J1212
Percent Solids:	92.94	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
86-73-7	Fluorene	ND	0.0119	0.143	U
118-74-1	Hexachlorobenzene	ND	0.0187	0.143	U
87-68-3	Hexachlorobutadiene	ND	0.0688	0.143	U
77-47-4	Hexachlorocyclopentadiene	ND	0.0597	0.358	U
67-72-1	Hexachloroethane	ND	0.0157	0.143	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0154	0.143	U
78-59-1	Isophorone	ND	0.00938	0.143	U
91-20-3	Naphthalene	ND	0.0106	0.143	U
98-95-3	Nitrobenzene	ND	0.0243	0.143	U
621-64-7	n-Nitroso-di-n-propylamine	ND	0.00767	0.143	U
86-30-6	n-Nitrosodiphenylamine	ND	0.0306	0.143	U
85-01-8	Phenanthrene	ND	0.0188	0.143	U
108-95-2	Phenol	ND	0.0116	0.143	U
129-00-0	Pyrene	ND	0.0105	0.143	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **STP-7**
Lab Sample ID: **8100452-14**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	AS07400.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 16:57
Dilution:	1	Matrix:	Soil	Sequence:	S8J1212
Percent Solids:	92.94	Prep Method:	Sonication MS		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg dry)	RT	Q

J - Indicates estimated value
B - Indicates compound found in associated blank
D - Indicates result is based on a dilution

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\A\DATA\20181011\AS07400.D Vial: 8
Acq On : 11 Oct 2018 16:57 Operator: GCH
Sample : 8100452-14 Inst : GCMS-A
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 11 17:22 2018 Quant Results File: 0824ABN.RES

Quant Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Oct 02 11:16:59 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.27	152	139395	40.00	ug/kg	0.00
21) Naphthalene-d8	7.54	136	542847	40.00	ug/kg	0.00
38) Acenaphthene-d10	9.31	164	286684	40.00	ug/kg	0.00
61) Phenanthrene-d10	10.81	188	546847	40.00	ug/kg	0.00
75) Chrysene-d12	13.67	240	598306	40.00	ug/kg	0.00
84) Perylene-d12	15.75	264	626870	40.00	ug/kg	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.97	112	184990	47.76	ug/kg	-0.03
Spiked Amount 100.000	Range 18 - 82		Recovery = 47.76%			
7) Phenol-d6	5.87	99	217367	47.43	ug/kg	0.00
Spiked Amount 100.000	Range 20 - 88		Recovery = 47.43%			
22) Nitrobenzene-d5	6.81	82	101420	27.67	ug/kg	-0.03
Spiked Amount 50.000	Range 27 - 100		Recovery = 55.34%			
43) 2-Fluorobiphenyl	8.61	172	263884	23.27	ug/kg	-0.02
Spiked Amount 50.000	Range 27 - 105		Recovery = 46.54%			
65) 2,4,6-Tribromophenol	10.10	330	77092	50.57	ug/kg	-0.01
Spiked Amount 100.000	Range 24 - 115		Recovery = 50.57%			
78) p-Terphenyl-d14	12.40	244	361237	24.26	ug/kg	0.00
Spiked Amount 50.000	Range 29 - 110		Recovery = 48.52%			

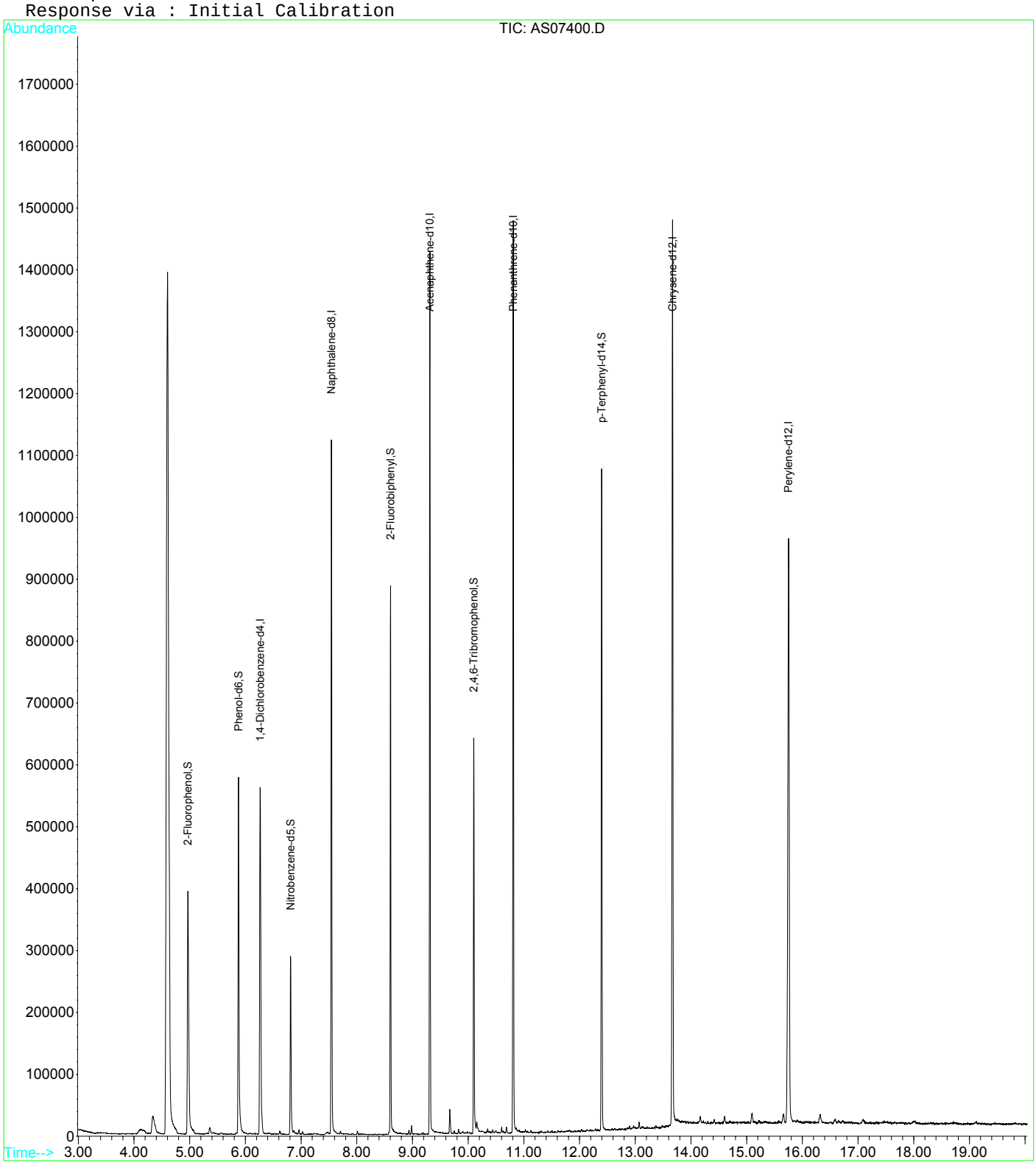
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
AS07400.D 0824ABN.M Fri Oct 12 15:12:01 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\A\DATA\20181011\AS07400.D Vial: 8
Acq On : 11 Oct 2018 16:57 Operator: GCH
Sample : 8100452-14 Inst : GCMS-A
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 11 17:22 2018 Quant Results File: 0824ABN.RES

Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Oct 02 11:16:59 2018
Response via : Initial Calibration



AS07400.D 0824ABN.M Fri Oct 12 15:12:02 2018 SS Page 2

14 14.2.

SURROGATE RECOVERIES

Analysis Class: SEMIVOLATILES

Matrix: Soil **Method:** SW 846 8270D

BN-PAH

Lab Number	File ID	NBZ	FPB	TER-D14	2FP	PHN-D6	TBP
8100452-02	DS18772.D	77.1	67.5	74.8			
8100452-03	DS18773.D	77.7	74.8	80.6			
8100452-04	DS18774.D	73.7	69.6	74.0			
8100452-05	DS18775.D	71.0	68.2	74.1			
8100452-07	DS18777.D	74.6	70.2	73.5			
8100452-08	DS18778.D	76.9	77.3	80.8			
8100452-09	AS07401.D	77.0	65.1	68.1			
8100452-10	AS07396.D	78.4	64.7	72.8			
8100452-11	AS07397.D	70.7	57.4	60.6			
8100452-13	AS07399.D	69.2	55.9	59.9			
B8J1101-BLK1	DS18769.D	81.0	76.3	81.9			
B8J1101-BS1	DS18770.D	87.6	83.0	90.3			
B8J1101-MS1	DS18779.D	51.6	51.0	55.2			
B8J1101-MSD1	DS18780.D	69.3	65.2	70.4			

BNA+25

Lab Number	File ID	NBZ	FPB	TER-D14	2FP	PHN-D6	TBP
8100452-01	DS18771.D	75.0	69.9	77.6	68.6	72.0	64.2
8100452-06	DS18776.D	64.1	60.9	70.7	61.0	64.8	55.7
8100452-12	AS07398.D	76.3	63.8	68.4	67.7	68.4	71.6
8100452-14	AS07400.D	55.3	46.5	48.5	47.8	47.4	50.6
B8J1101-BLK1	DS18769.D	81.0	76.3	81.9	76.2	78.0	68.6
B8J1101-BS1	DS18770.D	87.6	83.0	90.3	87.0*	87.9	72.0
B8J1101-MS1	DS18779.D	51.6	51.0	55.2	47.7	50.8	47.4
B8J1101-MSD1	DS18780.D	69.3	65.2	70.4	66.4	70.8	61.4

Surrogate Limits		Lo Limit	Hi Limit
NBZ	Nitrobenzene-d5	27.1	99.6
FPB	2-Fluorobiphenyl	26.5	105
TER-D14	p-Terphenyl-d14	28.8	110
2FP	2-Fluorophenol	18	81.6
PHN-D6	Phenol-d6	19.9	88.2
TBP	2,4,6-Tribromophenol	23.7	115

F-II

* - Outside of QC Limits

Batch B8J1101 **Method: SW 846 8270D** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1101-BS1		2,3,4,6-Tetrachlorophenol	2.60	mg/kg wet	3.33		77.9	51.8-112		
B8J1101-BS1		2,4,5-Trichlorophenol	2.74	mg/kg wet	3.33		82.1	49.3-106		
B8J1101-BS1		2,4,6-Trichlorophenol	2.68	mg/kg wet	3.33		80.3	51.9-97		
B8J1101-BS1		2,4-Dichlorophenol	2.78	mg/kg wet	3.33		83.5	57.3-101		
B8J1101-BS1		2,4-Dimethylphenol	3.03	mg/kg wet	3.33		91.0*	54.1-90.3		
B8J1101-BS1		2,4-Dinitrophenol	0.854	mg/kg wet	3.33		25.6	15-109		
B8J1101-BS1		2,4-Dinitrotoluene	2.90	mg/kg wet	3.33		87.0	48.2-110		
B8J1101-BS1		2,6-Dinitrotoluene	2.74	mg/kg wet	3.33		82.3	52.3-102		
B8J1101-BS1		2-Chloronaphthalene	2.64	mg/kg wet	3.33		79.3	50.4-88.1		
B8J1101-BS1		2-Chlorophenol	2.87	mg/kg wet	3.33		86.1	50.4-90.6		
B8J1101-BS1		2-Methylnaphthalene	2.74	mg/kg wet	3.33		82.1	58.8-99.1		
B8J1101-BS1		2-Methylphenol	3.00	mg/kg wet	3.33		90.1*	53.3-89.3		
B8J1101-BS1		2-Nitroaniline	3.01	mg/kg wet	3.33		90.2	53.6-103		
B8J1101-BS1		2-Nitrophenol	2.69	mg/kg wet	3.33		80.8	47.4-90.4		
B8J1101-BS1		3,3'-Dichlorobenzidine	2.32	mg/kg wet	3.33		69.5	27.7-175		
B8J1101-BS1		3+4-Methylphenol	2.92	mg/kg wet	3.33		87.7	48.9-90.5		
B8J1101-BS1		3-Nitroaniline	2.83	mg/kg wet	3.33		85.0	55.6-113		
B8J1101-BS1		4,6-Dinitro-2-methylphenol	1.60	mg/kg wet	3.33		47.9	24.4-112		
B8J1101-BS1		4-Bromophenyl-phenyl ether	2.79	mg/kg wet	3.33		83.6	54.7-102		
B8J1101-BS1		4-Chloro-3-methylphenol	3.04	mg/kg wet	3.33		91.2	54-102		
B8J1101-BS1		4-Chloroaniline	2.58	mg/kg wet	3.33		77.5	15-163		
B8J1101-BS1		4-Chlorophenyl phenyl ether	2.65	mg/kg wet	3.33		79.6	48.5-103		
B8J1101-BS1		4-Nitroaniline	3.11	mg/kg wet	3.33		93.3	47.3-162		
B8J1101-BS1		4-Nitrophenol	3.20	mg/kg wet	3.33		96.1	15-178		
B8J1101-BS1		Acenaphthene	2.71	mg/kg wet	3.33		81.2	52.1-88		
B8J1101-BS1		Acenaphthylene	2.70	mg/kg wet	3.33		80.9	45.6-89.2		
B8J1101-BS1		Acetophenone	2.53	mg/kg wet	3.33		75.8	44.8-81		
B8J1101-BS1		Anthracene	2.91	mg/kg wet	3.33		87.2	51.8-96.7		
B8J1101-BS1		Atrazine	2.51	mg/kg wet	3.33		75.3	34.4-161		
B8J1101-BS1		Benzaldehyde	0.0572	mg/kg wet	3.33		1.72*	15-99.5		
B8J1101-BS1		Benzo(a)anthracene	2.79	mg/kg wet	3.33		83.6	54.4-90.2		
B8J1101-BS1		Benzo(a)pyrene	2.93	mg/kg wet	3.33		87.8	56.9-99.9		
B8J1101-BS1		Benzo(b)fluoranthene	3.01	mg/kg wet	3.33		90.2	59-104		
B8J1101-BS1		Benzo(g,h,i)perylene	2.96	mg/kg wet	3.33		88.9	55.8-113		
B8J1101-BS1		Benzo(k)fluoranthene	3.02	mg/kg wet	3.33		90.6	56.8-101		
B8J1101-BS1		Biphenyl	2.91	mg/kg wet	3.33		87.2	68.5-109		
B8J1101-BS1		bis(2-chloroethoxy)methane	2.91	mg/kg wet	3.33		87.2	59.9-96		
B8J1101-BS1		bis(2-chloroethyl)ether	2.80	mg/kg wet	3.33		84.0	25.4-102		
B8J1101-BS1		bis(2-chloroisopropyl)ether	2.67	mg/kg wet	3.33		80.1	22.7-94.1		
B8J1101-BS1		bis(2-ethylhexyl)phthalate	3.14	mg/kg wet	3.33		94.2	53.2-109		
B8J1101-BS1		Butylbenzylphthalate	3.24	mg/kg wet	3.33		97.3	51-107		
B8J1101-BS1		Caprolactam	2.82	mg/kg wet	3.33		84.7	51.6-117		
B8J1101-BS1		Carbazole	2.92	mg/kg wet	3.33		87.6	26.1-122		
B8J1101-BS1		Chrysene	2.79	mg/kg wet	3.33		83.8	50.3-91.6		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL
NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

F-III

Batch B8J1101 (cont.) **Method: SW 846 8270D** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1101-BS1		Dibenzo(a,h)anthracene	2.80	mg/kg wet	3.33		84.1	52.3-109		
B8J1101-BS1		Dibenzofuran	2.76	mg/kg wet	3.33		82.8	52.4-94		
B8J1101-BS1		Diethylphthalate	2.98	mg/kg wet	3.33		89.4	50.3-93.7		
B8J1101-BS1		Dimethylphthalate	2.93	mg/kg wet	3.33		88.0	52.1-92		
B8J1101-BS1		Di-n-butylphthalate	3.00	mg/kg wet	3.33		89.9	50.2-105		
B8J1101-BS1		Di-n-octylphthalate	3.22	mg/kg wet	3.33		96.6	41.8-121		
B8J1101-BS1		Fluoranthene	2.77	mg/kg wet	3.33		83.0	54.9-92.7		
B8J1101-BS1		Fluorene	2.65	mg/kg wet	3.33		79.5	52.1-89.5		
B8J1101-BS1		Hexachlorobenzene	2.45	mg/kg wet	3.33		73.5	45.6-102		
B8J1101-BS1		Hexachlorobutadiene	2.43	mg/kg wet	3.33		72.9	39.2-104		
B8J1101-BS1		Hexachlorocyclopentadiene	2.38	mg/kg wet	3.33		71.5	37.5-94.3		
B8J1101-BS1		Hexachloroethane	2.71	mg/kg wet	3.33		81.3	49.3-83.4		
B8J1101-BS1		Indeno(1,2,3-cd)pyrene	2.94	mg/kg wet	3.33		88.2	49.7-115		
B8J1101-BS1		Isophorone	3.44	mg/kg wet	3.33		103*	63.1-100		
B8J1101-BS1		Naphthalene	2.53	mg/kg wet	3.33		75.8	49-85.3		
B8J1101-BS1		Nitrobenzene	2.86	mg/kg wet	3.33		85.9	51.4-89.6		
B8J1101-BS1		n-Nitroso-di-n-propylamine	2.96	mg/kg wet	3.33		88.8	47.3-94		
B8J1101-BS1		n-Nitrosodiphenylamine	2.95	mg/kg wet	3.33		88.4	56.4-106		
B8J1101-BS1		Pentachlorophenol	1.42	mg/kg wet	3.33		42.5	15-116		
B8J1101-BS1		Phenanthrene	2.90	mg/kg wet	3.33		86.9	51.6-93.8		
B8J1101-BS1		Phenol	3.21	mg/kg wet	3.33		96.4*	42.3-86.3		
B8J1101-BS1		Pyrene	2.93	mg/kg wet	3.33		87.9	46.5-96.7		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Batch B8J1101 (cont.) **Method: SW 846 8270D** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1101-MS1	8100452-01	2,3,4,6-Tetrachlorophenol	1.47	mg/kg dry	3.71	ND	39.7	31.5-156		
B8J1101-MS1	8100452-01	2,4,5-Trichlorophenol	1.78	mg/kg dry	3.71	ND	47.9	39.1-118		
B8J1101-MS1	8100452-01	2,4,6-Trichlorophenol	1.74	mg/kg dry	3.71	ND	46.9	40.4-117		
B8J1101-MS1	8100452-01	2,4-Dichlorophenol	1.77	mg/kg dry	3.71	ND	47.7	36.4-101		
B8J1101-MS1	8100452-01	2,4-Dimethylphenol	2.07	mg/kg dry	3.71	ND	55.8	36.2-114		
B8J1101-MS1	8100452-01	2,4-Dinitrophenol	0.141	mg/kg dry	3.71	ND	3.79*	15-63		
B8J1101-MS1	8100452-01	2,4-Dinitrotoluene	2.02	mg/kg dry	3.71	ND	54.6	32.9-118		
B8J1101-MS1	8100452-01	2,6-Dinitrotoluene	1.88	mg/kg dry	3.71	ND	50.7	33.3-121		
B8J1101-MS1	8100452-01	2-Chloronaphthalene	1.75	mg/kg dry	3.71	ND	47.1	39-96.6		
B8J1101-MS1	8100452-01	2-Chlorophenol	1.68	mg/kg dry	3.71	ND	45.2	37-105		
B8J1101-MS1	8100452-01	2-Methylnaphthalene	1.86	mg/kg dry	3.71	ND	50.1	22.1-135		
B8J1101-MS1	8100452-01	2-Methylphenol	1.84	mg/kg dry	3.71	ND	49.6	35.8-108		
B8J1101-MS1	8100452-01	2-Nitroaniline	1.94	mg/kg dry	3.71	ND	52.4	46.6-119		
B8J1101-MS1	8100452-01	2-Nitrophenol	1.63	mg/kg dry	3.71	ND	44.1	15-102		
B8J1101-MS1	8100452-01	3,3'-Dichlorobenzidine	1.59	mg/kg dry	3.71	ND	42.9	15-168		
B8J1101-MS1	8100452-01	3+4-Methylphenol	1.80	mg/kg dry	3.71	ND	48.5	37.5-108		
B8J1101-MS1	8100452-01	3-Nitroaniline	1.91	mg/kg dry	3.71	ND	51.4*	81.4-181		
B8J1101-MS1	8100452-01	4,6-Dinitro-2-methylphenol	0.820	mg/kg dry	3.71	ND	22.1	15-80.1		
B8J1101-MS1	8100452-01	4-Bromophenyl-phenyl ether	1.86	mg/kg dry	3.71	ND	50.2	47.8-116		
B8J1101-MS1	8100452-01	4-Chloro-3-methylphenol	1.96	mg/kg dry	3.71	ND	52.8	42.5-109		
B8J1101-MS1	8100452-01	4-Chloroaniline	1.58	mg/kg dry	3.71	ND	42.5	36.6-159		
B8J1101-MS1	8100452-01	4-Chlorophenyl phenyl ether	1.79	mg/kg dry	3.71	ND	48.2	37.8-127		
B8J1101-MS1	8100452-01	4-Nitroaniline	2.23	mg/kg dry	3.71	ND	60.1*	65.5-172		
B8J1101-MS1	8100452-01	4-Nitrophenol	1.99	mg/kg dry	3.71	ND	53.7	15-149		
B8J1101-MS1	8100452-01	Acenaphthene	1.80	mg/kg dry	3.71	ND	48.5	46.5-107		
B8J1101-MS1	8100452-01	Acenaphthylene	1.83	mg/kg dry	3.71	ND	49.4	44.9-104		
B8J1101-MS1	8100452-01	Acetophenone	1.59	mg/kg dry	3.71	ND	42.9	27.2-114		
B8J1101-MS1	8100452-01	Anthracene	2.00	mg/kg dry	3.71	ND	54.0	40.6-106		
B8J1101-MS1	8100452-01	Atrazine	1.82	mg/kg dry	3.71	ND	49.1	48.9-137		
B8J1101-MS1	8100452-01	Benzaldehyde	ND	mg/kg dry	3.71	ND	*	15-187		
B8J1101-MS1	8100452-01	Benzo(a)anthracene	1.93	mg/kg dry	3.71	0.0995	49.3	46.3-117		
B8J1101-MS1	8100452-01	Benzo(a)pyrene	1.98	mg/kg dry	3.71	0.0887	51.0	40.6-131		
B8J1101-MS1	8100452-01	Benzo(b)fluoranthene	2.21	mg/kg dry	3.71	0.107	56.8	41.1-134		
B8J1101-MS1	8100452-01	Benzo(g,h,i)perylene	2.07	mg/kg dry	3.71	0.0702	53.9	15-104		
B8J1101-MS1	8100452-01	Benzo(k)fluoranthene	2.05	mg/kg dry	3.71	0.0788	53.2	41-150		
B8J1101-MS1	8100452-01	Biphenyl	1.99	mg/kg dry	3.71	ND	53.7	42.6-106		
B8J1101-MS1	8100452-01	bis(2-chloroethoxy)methane	1.87	mg/kg dry	3.71	ND	50.6	42.9-110		
B8J1101-MS1	8100452-01	bis(2-chloroethyl)ether	1.63	mg/kg dry	3.71	ND	44.0	37-110		
B8J1101-MS1	8100452-01	bis(2-chloroisopropyl)ether	1.62	mg/kg dry	3.71	ND	43.8	31-132		
B8J1101-MS1	8100452-01	bis(2-ethylhexyl)phthalate	2.24	mg/kg dry	3.71	ND	60.3	53.6-131		
B8J1101-MS1	8100452-01	Butylbenzylphthalate	2.19	mg/kg dry	3.71	ND	59.0	46.6-134		
B8J1101-MS1	8100452-01	Caprolactam	1.97	mg/kg dry	3.71	ND	53.1	38.6-126		
B8J1101-MS1	8100452-01	Carbazole	2.01	mg/kg dry	3.71	ND	54.1	53.7-153		
B8J1101-MS1	8100452-01	Chrysene	1.98	mg/kg dry	3.71	0.0909	50.9	40.5-125		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

F-III

Batch B8J1101 (cont.) **Method: SW 846 8270D** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1101-MS1	8100452-01	Dibenzo(a,h)anthracene	1.95	mg/kg dry	3.71	ND	52.5	15-109		
B8J1101-MS1	8100452-01	Dibenzofuran	1.92	mg/kg dry	3.71	ND	51.7	15-138		
B8J1101-MS1	8100452-01	Diethylphthalate	2.04	mg/kg dry	3.71	ND	54.9	40.1-132		
B8J1101-MS1	8100452-01	Dimethylphthalate	2.08	mg/kg dry	3.71	ND	56.0	32.5-112		
B8J1101-MS1	8100452-01	Di-n-butylphthalate	2.13	mg/kg dry	3.71	ND	57.5	40.1-129		
B8J1101-MS1	8100452-01	Di-n-octylphthalate	2.38	mg/kg dry	3.71	ND	64.3*	71.6-172		
B8J1101-MS1	8100452-01	Fluoranthene	1.96	mg/kg dry	3.71	0.167	48.4	43.8-116		
B8J1101-MS1	8100452-01	Fluorene	1.84	mg/kg dry	3.71	ND	49.6	43.7-110		
B8J1101-MS1	8100452-01	Hexachlorobenzene	1.71	mg/kg dry	3.71	ND	46.1	39.4-110		
B8J1101-MS1	8100452-01	Hexachlorobutadiene	1.49	mg/kg dry	3.71	ND	40.1	37.7-119		
B8J1101-MS1	8100452-01	Hexachlorocyclopentadiene	1.06	mg/kg dry	3.71	ND	28.6	15-62.9		
B8J1101-MS1	8100452-01	Hexachloroethane	1.54	mg/kg dry	3.71	ND	41.7	15-110		
B8J1101-MS1	8100452-01	Indeno(1,2,3-cd)pyrene	2.04	mg/kg dry	3.71	0.0610	53.5	15-107		
B8J1101-MS1	8100452-01	Isophorone	2.20	mg/kg dry	3.71	ND	59.3	41.2-120		
B8J1101-MS1	8100452-01	Naphthalene	1.64	mg/kg dry	3.71	ND	44.1	25.3-117		
B8J1101-MS1	8100452-01	Nitrobenzene	1.80	mg/kg dry	3.71	ND	48.4	40.1-117		
B8J1101-MS1	8100452-01	n-Nitroso-di-n-propylamine	1.78	mg/kg dry	3.71	ND	48.0	27.8-169		
B8J1101-MS1	8100452-01	n-Nitrosodiphenylamine	2.08	mg/kg dry	3.71	ND	56.0	45.4-155		
B8J1101-MS1	8100452-01	Pentachlorophenol	0.540	mg/kg dry	3.71	ND	14.6*	15-104		
B8J1101-MS1	8100452-01	Phenanthrene	2.05	mg/kg dry	3.71	0.126	51.8	30-114		
B8J1101-MS1	8100452-01	Phenol	1.87	mg/kg dry	3.71	ND	50.5	28.3-131		
B8J1101-MS1	8100452-01	Pyrene	2.17	mg/kg dry	3.71	0.158	54.3	33.7-116		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Batch B8J1101 (cont.) **Method: SW 846 8270D** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1101-MSD1	8100452-01	2,3,4,6-Tetrachlorophenol	2.29	mg/kg dry	3.71	ND	61.8	31.5-156	43.6*	30
B8J1101-MSD1	8100452-01	2,4,5-Trichlorophenol	2.46	mg/kg dry	3.71	ND	66.2	39.1-118	32.2*	30
B8J1101-MSD1	8100452-01	2,4,6-Trichlorophenol	2.29	mg/kg dry	3.71	ND	61.7	40.4-117	27.2	30
B8J1101-MSD1	8100452-01	2,4-Dichlorophenol	2.51	mg/kg dry	3.71	ND	67.8	36.4-101	34.8*	30
B8J1101-MSD1	8100452-01	2,4-Dimethylphenol	2.80	mg/kg dry	3.71	ND	75.5	36.2-114	30.0	30
B8J1101-MSD1	8100452-01	2,4-Dinitrophenol	0.459	mg/kg dry	3.71	ND	12.4*	15-63	106*	30
B8J1101-MSD1	8100452-01	2,4-Dinitrotoluene	2.60	mg/kg dry	3.71	ND	70.2	32.9-118	25.1	30
B8J1101-MSD1	8100452-01	2,6-Dinitrotoluene	2.48	mg/kg dry	3.71	ND	66.8	33.3-121	27.4	30
B8J1101-MSD1	8100452-01	2-Chloronaphthalene	2.39	mg/kg dry	3.71	ND	64.4	39-96.6	31.1*	30
B8J1101-MSD1	8100452-01	2-Chlorophenol	2.45	mg/kg dry	3.71	ND	66.1	37-105	37.6*	30
B8J1101-MSD1	8100452-01	2-Methylnaphthalene	2.49	mg/kg dry	3.71	ND	67.1	22.1-135	29.1	30
B8J1101-MSD1	8100452-01	2-Methylphenol	2.55	mg/kg dry	3.71	ND	68.7	35.8-108	32.3*	30
B8J1101-MSD1	8100452-01	2-Nitroaniline	2.77	mg/kg dry	3.71	ND	74.7	46.6-119	35.0*	30
B8J1101-MSD1	8100452-01	2-Nitrophenol	2.47	mg/kg dry	3.71	ND	66.6	15-102	40.8*	30
B8J1101-MSD1	8100452-01	3,3'-Dichlorobenzidine	1.98	mg/kg dry	3.71	ND	53.4	15-168	21.7	30
B8J1101-MSD1	8100452-01	3+4-Methylphenol	2.54	mg/kg dry	3.71	ND	68.6	37.5-108	34.3*	30
B8J1101-MSD1	8100452-01	3-Nitroaniline	2.58	mg/kg dry	3.71	ND	69.7*	81.4-181	30.2*	30
B8J1101-MSD1	8100452-01	4,6-Dinitro-2-methylphenol	1.17	mg/kg dry	3.71	ND	31.7	15-80.1	35.6*	30
B8J1101-MSD1	8100452-01	4-Bromophenyl-phenyl ether	2.43	mg/kg dry	3.71	ND	65.7	47.8-116	26.6	30
B8J1101-MSD1	8100452-01	4-Chloro-3-methylphenol	2.68	mg/kg dry	3.71	ND	72.3	42.5-109	31.2*	30
B8J1101-MSD1	8100452-01	4-Chloroaniline	2.34	mg/kg dry	3.71	ND	63.0	36.6-159	38.8*	30
B8J1101-MSD1	8100452-01	4-Chlorophenyl phenyl ether	2.43	mg/kg dry	3.71	ND	65.6	37.8-127	30.6*	30
B8J1101-MSD1	8100452-01	4-Nitroaniline	2.94	mg/kg dry	3.71	ND	79.3	65.5-172	27.6	30
B8J1101-MSD1	8100452-01	4-Nitrophenol	2.94	mg/kg dry	3.71	ND	79.3	15-149	38.5*	30
B8J1101-MSD1	8100452-01	Acenaphthene	2.40	mg/kg dry	3.71	ND	64.9	46.5-107	28.9	30
B8J1101-MSD1	8100452-01	Acenaphthylene	2.43	mg/kg dry	3.71	ND	65.4	44.9-104	27.9	30
B8J1101-MSD1	8100452-01	Acetophenone	2.16	mg/kg dry	3.71	ND	58.3	27.2-114	30.4*	30
B8J1101-MSD1	8100452-01	Anthracene	2.61	mg/kg dry	3.71	ND	70.5	40.6-106	26.4	30
B8J1101-MSD1	8100452-01	Atrazine	2.15	mg/kg dry	3.71	ND	58.0	48.9-137	16.7	30
B8J1101-MSD1	8100452-01	Benzaldehyde	0.0485	mg/kg dry	3.71	ND	1.31*	15-187		30
B8J1101-MSD1	8100452-01	Benzo(a)anthracene	2.48	mg/kg dry	3.71	0.0995	64.2	46.3-117	25.0	30
B8J1101-MSD1	8100452-01	Benzo(a)pyrene	2.64	mg/kg dry	3.71	0.0887	68.8	40.6-131	28.6	30
B8J1101-MSD1	8100452-01	Benzo(b)fluoranthene	2.92	mg/kg dry	3.71	0.107	76.0	41.1-134	27.8	30
B8J1101-MSD1	8100452-01	Benzo(g,h,i)perylene	2.77	mg/kg dry	3.71	0.0702	72.9	15-104	29.0	30
B8J1101-MSD1	8100452-01	Benzo(k)fluoranthene	2.71	mg/kg dry	3.71	0.0788	71.0	41-150	27.7	30
B8J1101-MSD1	8100452-01	Biphenyl	2.55	mg/kg dry	3.71	ND	68.7	42.6-106	24.5	30
B8J1101-MSD1	8100452-01	bis(2-chloroethoxy)methane	2.70	mg/kg dry	3.71	ND	72.8	42.9-110	36.0*	30
B8J1101-MSD1	8100452-01	bis(2-chloroethyl)ether	2.39	mg/kg dry	3.71	ND	64.6	37-110	37.9*	30
B8J1101-MSD1	8100452-01	bis(2-chloroisopropyl)ether	2.30	mg/kg dry	3.71	ND	61.9	31-132	34.2*	30
B8J1101-MSD1	8100452-01	bis(2-ethylhexyl)phthalate	2.86	mg/kg dry	3.71	ND	77.1	53.6-131	24.4	30
B8J1101-MSD1	8100452-01	Butylbenzylphthalate	2.80	mg/kg dry	3.71	ND	75.6	46.6-134	24.6	30
B8J1101-MSD1	8100452-01	Caprolactam	2.57	mg/kg dry	3.71	ND	69.3	38.6-126	26.6	30
B8J1101-MSD1	8100452-01	Carbazole	2.58	mg/kg dry	3.71	ND	69.6	53.7-153	25.1	30
B8J1101-MSD1	8100452-01	Chrysene	2.53	mg/kg dry	3.71	0.0909	65.7	40.5-125	24.4	30

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

F-III

Batch B8J1101 (cont.) **Method: SW 846 8270D** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1101-MSD1	8100452-01	Dibenzo(a,h)anthracene	2.62	mg/kg dry	3.71	ND	70.7	15-109	29.6	30
B8J1101-MSD1	8100452-01	Dibenzofuran	2.49	mg/kg dry	3.71	ND	67.2	15-138	26.1	30
B8J1101-MSD1	8100452-01	Diethylphthalate	2.70	mg/kg dry	3.71	ND	72.8	40.1-132	28.0	30
B8J1101-MSD1	8100452-01	Dimethylphthalate	2.62	mg/kg dry	3.71	ND	70.5	32.5-112	23.0	30
B8J1101-MSD1	8100452-01	Di-n-butylphthalate	2.69	mg/kg dry	3.71	ND	72.4	40.1-129	22.9	30
B8J1101-MSD1	8100452-01	Di-n-octylphthalate	3.01	mg/kg dry	3.71	ND	81.1	71.6-172	23.1	30
B8J1101-MSD1	8100452-01	Fluoranthene	2.56	mg/kg dry	3.71	0.167	64.7	43.8-116	26.6	30
B8J1101-MSD1	8100452-01	Fluorene	2.44	mg/kg dry	3.71	ND	65.8	43.7-110	28.1	30
B8J1101-MSD1	8100452-01	Hexachlorobenzene	2.25	mg/kg dry	3.71	ND	60.7	39.4-110	27.2	30
B8J1101-MSD1	8100452-01	Hexachlorobutadiene	2.19	mg/kg dry	3.71	ND	59.1	37.7-119	38.4*	30
B8J1101-MSD1	8100452-01	Hexachlorocyclopentadiene	1.60	mg/kg dry	3.71	ND	43.1	15-62.9	40.4*	30
B8J1101-MSD1	8100452-01	Hexachloroethane	2.21	mg/kg dry	3.71	ND	59.7	15-110	35.5*	30
B8J1101-MSD1	8100452-01	Indeno(1,2,3-cd)pyrene	2.69	mg/kg dry	3.71	0.0610	70.8	15-107	27.1	30
B8J1101-MSD1	8100452-01	Isophorone	3.08	mg/kg dry	3.71	ND	83.0	41.2-120	33.3*	30
B8J1101-MSD1	8100452-01	Naphthalene	2.27	mg/kg dry	3.71	ND	61.3	25.3-117	32.6*	30
B8J1101-MSD1	8100452-01	Nitrobenzene	2.55	mg/kg dry	3.71	ND	68.8	40.1-117	34.7*	30
B8J1101-MSD1	8100452-01	n-Nitroso-di-n-propylamine	2.51	mg/kg dry	3.71	ND	67.8	27.8-169	34.2*	30
B8J1101-MSD1	8100452-01	n-Nitrosodiphenylamine	2.70	mg/kg dry	3.71	ND	72.9	45.4-155	26.1	30
B8J1101-MSD1	8100452-01	Pentachlorophenol	0.801	mg/kg dry	3.71	ND	21.6	15-104	38.8*	30
B8J1101-MSD1	8100452-01	Phenanthrene	2.61	mg/kg dry	3.71	0.126	67.1	30-114	24.4	30
B8J1101-MSD1	8100452-01	Phenol	2.77	mg/kg dry	3.71	ND	74.8	28.3-131	38.8*	30
B8J1101-MSD1	8100452-01	Pyrene	2.77	mg/kg dry	3.71	0.158	70.5	33.7-116	24.3	30

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

METHOD BLANK SUMMARY

Batch ID: **B8J1101**

Lab Number	Sample Id	Extraction Date	Analysis Date
B8J1101-BLK1	BLK1	10/11/2018	10/11/2018 13:11
B8J1101-BS1	BS1	10/11/2018	10/11/2018 13:40
B8J1101-MS1	MS1	10/11/2018	10/11/2018 17:57
B8J1101-MSD1	MSD1	10/11/2018	10/11/2018 18:26
8100452-01	NTP-1A	10/11/2018	10/11/2018 14:10
8100452-02	NTP-2A	10/11/2018	10/11/2018 14:38
8100452-03	NTP-2B	10/11/2018	10/11/2018 15:07
8100452-04	NTP-3B	10/11/2018	10/11/2018 15:35
8100452-05	NTP-4B	10/11/2018	10/11/2018 16:04
8100452-06	NTP-6	10/11/2018	10/11/2018 16:32
8100452-07	NTP-7	10/11/2018	10/11/2018 17:01
8100452-08	STP-1B	10/11/2018	10/11/2018 17:29
8100452-09	STP-2B	10/11/2018	10/11/2018 17:26
8100452-10	STP-3B	10/11/2018	10/11/2018 14:58
8100452-11	STP-4A	10/11/2018	10/11/2018 15:28
8100452-12	STP-4B	10/11/2018	10/11/2018 15:57
8100452-13	STP-5	10/11/2018	10/11/2018 16:27
8100452-14	STP-7	10/11/2018	10/11/2018 16:57

INSTRUMENT PERFORMANCE CHECK

Client:	Peak Environmental	Work Order:	8100452
Instrument ID:	GCMS-D	Project:	Ridgewood
Sequence:	S8H0618		

Lab Sample ID:	**S8H0618-TUN1**	Injection Date:	08/02/2018	Injection Time:	20:15
Lab File ID:	DS17873a.D				

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
51	30 - 60% of 198	47.1	PASS
68	Less than 2% of 69	0.689	PASS
69	Less than 100% of 198	47.2	PASS
70	Less than 2% of 69	0.553	PASS
127	40 - 60% of 198	53.3	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.83	PASS
275	10 - 30% of 198	22	PASS
365	1 - 100% of 198	2.28	PASS
441	0.01 - 99.9% of 443	70.5	PASS
442	40 - 100% of 198	73.6	PASS
443	17 - 23% of 442	19.2	PASS

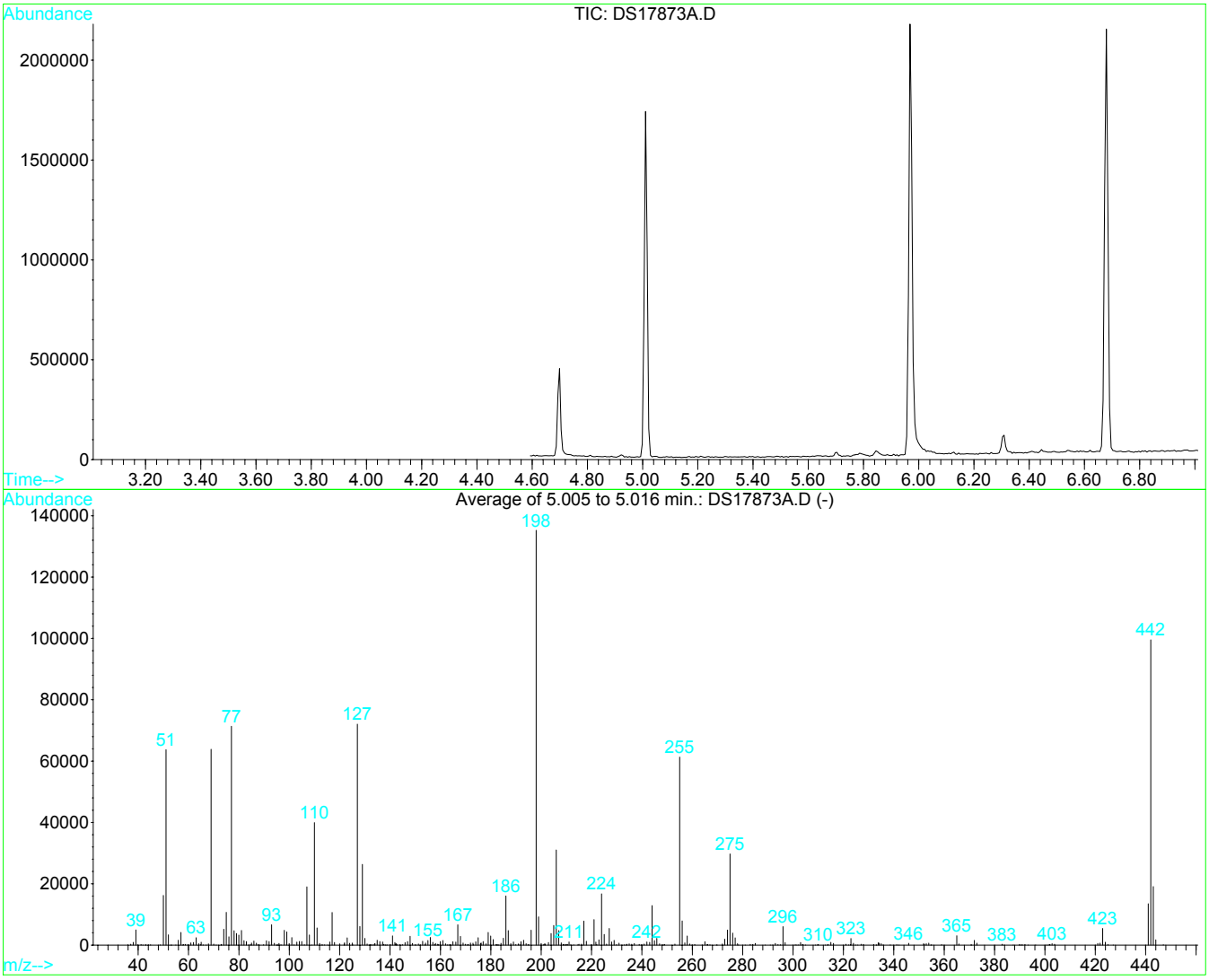
Samples Associated with Tune

Client ID or QC Type	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Cal Standard	S8H0618-CAL1	DS17875.D	08/02/2018	21:02.00
Cal Standard	S8H0618-CAL2	DS17876.D	08/02/2018	21:31.00
Cal Standard	S8H0618-CAL3	DS17877.D	08/02/2018	22:01.00
Cal Standard	S8H0618-CAL4	DS17879.D	08/02/2018	23:00.00
Cal Standard	S8H0618-CAL5	DS17880.D	08/02/2018	23:29.00
Cal Standard	S8H0618-CAL6	DS17881.D	08/02/2018	23:59.00

F-V

DFTPP

```
Data File : G:\HPCHEM\D\DATA\20180802\DS17873A.D          Vial: 2
Acq On    :  2 Aug 2018  20:15                      Operator: GCH
Sample    : SEQ-TUN                                 Inst    : GCMS-D
Misc      :                                         Multiplr: 1.00
MS Integration Params: rteint.p
Method    : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title     : BNA Extractables GC/MS 8270D
```



Spectrum Information: Average of 5.005 to 5.016 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.1	63731	PASS
68	69	0.00	2	0.7	440	PASS
69	198	0.00	100	47.2	63846	PASS
70	69	0.00	2	0.6	353	PASS
127	198	40	60	53.3	72064	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	135253	PASS
199	198	5	9	6.8	9244	PASS
275	198	10	30	22.0	29723	PASS
365	198	1	100	2.3	3084	PASS
441	443	0.01	100	70.5	13472	PASS
442	198	40	100	73.6	99555	PASS
443	442	17	23	19.2	19099	PASS

DS17873A.D 0802ABN.M Mon Aug 06 19:16:14 2018 SS

INSTRUMENT PERFORMANCE CHECK

Client:	Peak Environmental	Work Order:	8100452
Instrument ID:	GCMS-A	Project:	Ridgewood
Sequence:	S8H2831		

Lab Sample ID:	**S8H2831-TUN1**	Injection Date:	08/24/2018	Injection Time:	17:07
Lab File ID:	AS06906.D				

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
51	30 - 60% of 198	43.6	PASS
68	Less than 2% of 69	0	PASS
69	Less than 100% of 198	36.3	PASS
70	Less than 2% of 69	0.577	PASS
127	40 - 60% of 198	44.4	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.06	PASS
275	10 - 30% of 198	25.6	PASS
365	1 - 100% of 198	2.84	PASS
441	0.01 - 99.9% of 443	78.2	PASS
442	40 - 100% of 198	68.2	PASS
443	17 - 23% of 442	19.3	PASS

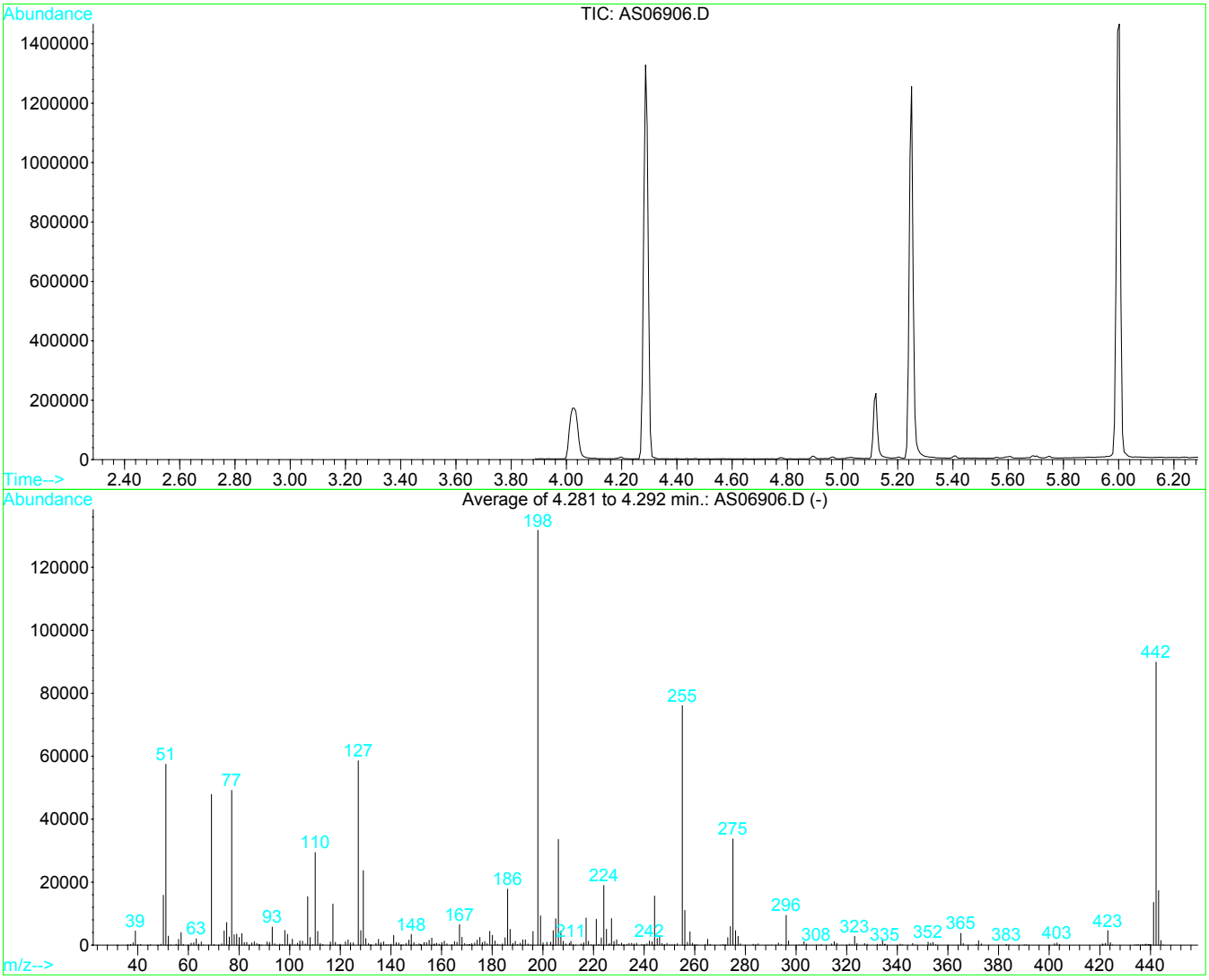
Samples Associated with Tune

Client ID or QC Type	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Cal Standard	S8H2831-CAL1	AS06908.D	08/24/2018	17:58.00
Cal Standard	S8H2831-CAL2	AS06909.D	08/24/2018	18:26.00
Cal Standard	S8H2831-CAL3	AS06911.D	08/24/2018	19:23.00
Cal Standard	S8H2831-CAL4	AS06912.D	08/24/2018	19:52.00
Cal Standard	S8H2831-CAL5	AS06913.D	08/24/2018	20:20.00
Cal Standard	S8H2831-CAL6	AS06914.D	08/24/2018	20:49.00

F-V

DFTPP

```
Data File : G:\HPCHEM\A\DATA\20180824\AS06906.D          Vial: 2
Acq On    : 24 Aug 2018  17:07                    Operator: GCH
Sample    : SEQ-TUN                               Inst    : GCMS-A
Misc      :                                       Multiplr: 1.00
MS Integration Params: RTEINT.P
Method    : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title     : BNA Extractables GC/MS 8270D
```



Spectrum Information: Average of 4.281 to 4.292 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	43.6	57469	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	36.3	47853	PASS
70	69	0.00	2	0.6	276	PASS
127	198	40	60	44.4	58541	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	131757	PASS
199	198	5	9	7.1	9308	PASS
275	198	10	30	25.6	33699	PASS
365	198	1	100	2.8	3748	PASS
441	443	0.01	100	78.2	13568	PASS
442	198	40	100	68.2	89917	PASS
443	442	17	23	19.3	17357	PASS

AS06906.D 0824ABN.M Tue Aug 28 18:57:50 2018 SS

INSTRUMENT PERFORMANCE CHECK

Client:	Peak Environmental	Work Order:	8100452
Instrument ID:	GCMS-A	Project:	Ridgewood
Sequence:	S8J1212		

Lab Sample ID:	**S8J1212-TUN1**	Injection Date:	10/11/2018	Injection Time:	14:09
Lab File ID:	AS07394.D				

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
51	30 - 60% of 198	41.1	PASS
68	Less than 2% of 69	0	PASS
69	Less than 100% of 198	35.2	PASS
70	Less than 2% of 69	0.184	PASS
127	40 - 60% of 198	43.7	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.07	PASS
275	10 - 30% of 198	26.7	PASS
365	1 - 100% of 198	2.93	PASS
441	0.01 - 99.9% of 443	75.9	PASS
442	40 - 100% of 198	66	PASS
443	17 - 23% of 442	20.3	PASS

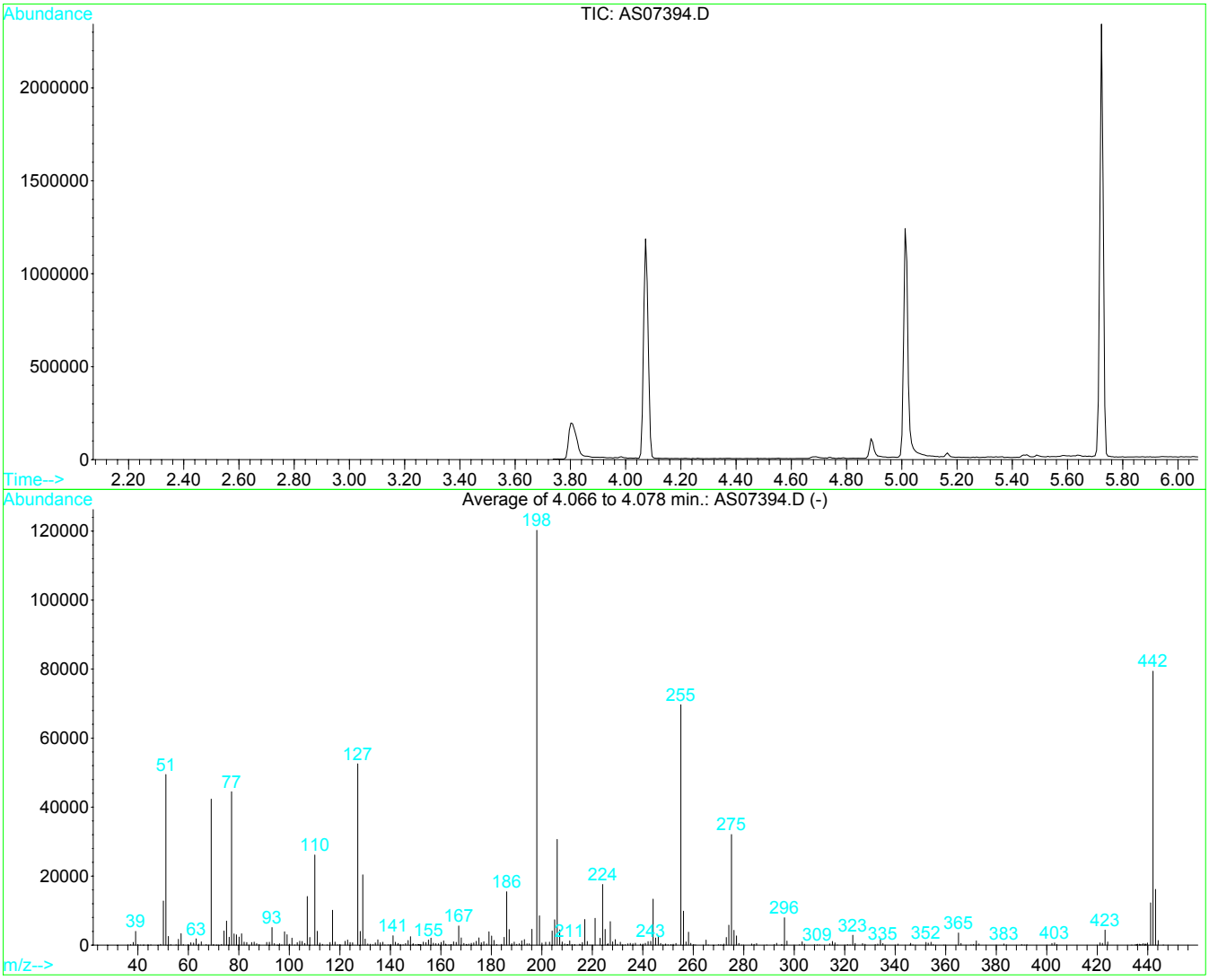
Samples Associated with Tune

Client ID or QC Type	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Calibration Check	S8J1212-CCV1	AS07395.D	10/11/2018	14:28.00
STP-3B	8100452-10	AS07396.D	10/11/2018	14:58.00
STP-4A	8100452-11	AS07397.D	10/11/2018	15:28.00
STP-4B	8100452-12	AS07398.D	10/11/2018	15:57.00
STP-5	8100452-13	AS07399.D	10/11/2018	16:27.00
STP-7	8100452-14	AS07400.D	10/11/2018	16:57.00
STP-2B	8100452-09	AS07401.D	10/11/2018	17:26.00

F-V

DFTPP

Data File : G:\HPCHEM\A\DATA\20181011\AS07394.D Vial: 2
Acq On : 11 Oct 2018 14:09 Operator: GCH
Sample : SEQ-TUN Inst : GCMS-A
Misc : Multiplr: 1.00
MS Integration Params: LSTINT.P
Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D



Spectrum Information: Average of 4.066 to 4.078 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.1	49448	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	35.2	42314	PASS
70	69	0.00	2	0.2	78	PASS
127	198	40	60	43.7	52547	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	120232	PASS
199	198	5	9	7.1	8503	PASS
275	198	10	30	26.7	32045	PASS
365	198	1	100	2.9	3522	PASS
441	443	0.01	100	75.9	12261	PASS
442	198	40	100	66.0	79395	PASS
443	442	17	23	20.3	16148	PASS

AS07394.D 0824ABN.M Fri Oct 12 15:05:29 2018 SS

INSTRUMENT PERFORMANCE CHECK

Client:	Peak Environmental	Work Order:	8100452
Instrument ID:	GCMS-D	Project:	Ridgewood
Sequence:	S8J1213		

Lab Sample ID:	**S8J1213-TUN1**	Injection Date:	10/11/2018	Injection Time:	12:24
Lab File ID:	DS18767.D				

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
51	30 - 60% of 198	52.4	PASS
68	Less than 2% of 69	0.199	PASS
69	Less than 100% of 198	55.1	PASS
70	Less than 2% of 69	0.981	PASS
127	40 - 60% of 198	58.7	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.08	PASS
275	10 - 30% of 198	18.8	PASS
365	1 - 100% of 198	2.14	PASS
441	0.01 - 99.9% of 443	58.2	PASS
442	40 - 100% of 198	55.2	PASS
443	17 - 23% of 442	22	PASS

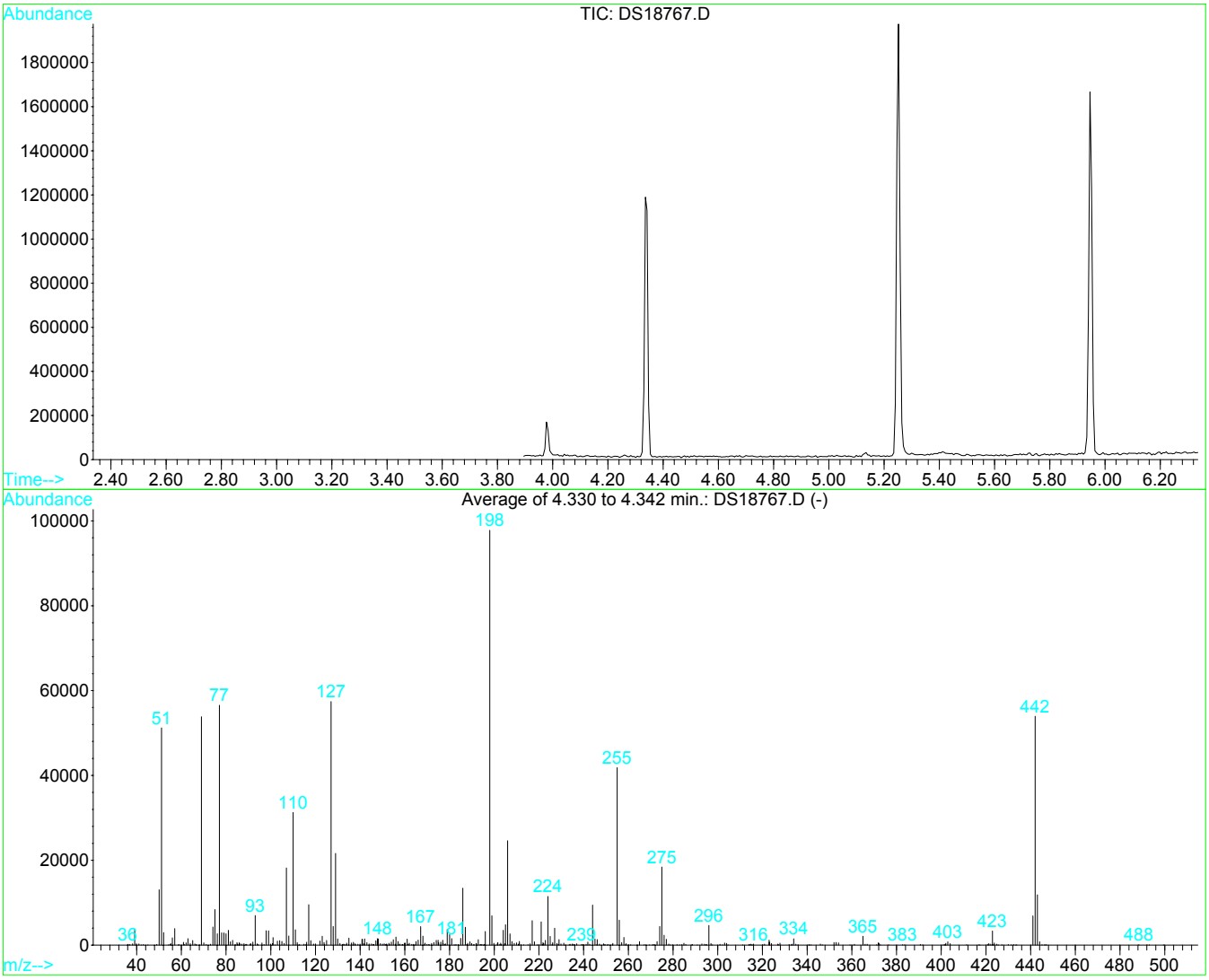
Samples Associated with Tune

Client ID or QC Type	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Calibration Check	S8J1213-CCV1	DS18768.D	10/11/2018	12:41.00
Blank	B8J1101-BLK1	DS18769.D	10/11/2018	13:11.00
LCS	B8J1101-BS1	DS18770.D	10/11/2018	13:40.00
NTP-1A	8100452-01	DS18771.D	10/11/2018	14:10.00
NTP-2A	8100452-02	DS18772.D	10/11/2018	14:38.00
NTP-2B	8100452-03	DS18773.D	10/11/2018	15:07.00
NTP-3B	8100452-04	DS18774.D	10/11/2018	15:35.00
NTP-4B	8100452-05	DS18775.D	10/11/2018	16:04.00
NTP-6	8100452-06	DS18776.D	10/11/2018	16:32.00
NTP-7	8100452-07	DS18777.D	10/11/2018	17:01.00
STP-1B	8100452-08	DS18778.D	10/11/2018	17:29.00
Matrix Spike	B8J1101-MS1	DS18779.D	10/11/2018	17:57.00
Matrix Spike Dup	B8J1101-MSD1	DS18780.D	10/11/2018	18:26.00

F-V

DFTPP

Data File : G:\HPCHEM\D\DATA\20181011\DS18767.D Vial: 2
Acq On : 11 Oct 2018 12:24 Operator: GCH
Sample : SEQ-TUN Inst : GCMS-D
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D



Spectrum Information: Average of 4.330 to 4.342 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	52.4	51204	PASS
68	69	0.00	2	0.2	107	PASS
69	198	0.00	100	55.1	53840	PASS
70	69	0.00	2	1.0	528	PASS
127	198	40	60	58.7	57429	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	97789	PASS
199	198	5	9	7.1	6927	PASS
275	198	10	30	18.8	18425	PASS
365	198	1	100	2.1	2097	PASS
441	443	0.01	100	58.2	6902	PASS
442	198	40	100	55.2	53958	PASS
443	442	17	23	22.0	11861	PASS

DS18767.D 0802ABN.M Tue Oct 16 12:43:27 2018 SS

Compound List Report GCMS-D

Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Aug 07 11:07:34 2018
Response via : Initial Calibration
Total Cpnds : 92

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,4-Dichlorobenzene-d4	152	6.24	1.000	A	2	A	B
2		1,4-Dioxane	88	2.93	0.470	A	2	A	B
3		N-nitrosodimethylamine	42	3.34	0.534	A	2	A	B
4		Pyridine	79	3.40	0.544	A	1	A	B
5	S	2-Fluorophenol	112	4.91	0.787	A	3	A	B
6		Benzaldehyde	77	5.80	0.929	A	3	A	B
7		Aniline	93	5.90	0.946	A	2	A	B
8	S	Phenol-d6	99	5.84	0.935	A	2	A	B
9	M C	Phenol	94	5.85	0.937	A	2	A	B
10		bis(2-Chloroethyl)ether	93	5.95	0.953	A	2	A	B
11	M	2-Chlorophenol	128	6.04	0.967	A	2	A	B
12		1,3-Dichlorobenzene	146	6.19	0.992	A	3	A	B
13	M C	1,4-Dichlorobenzene	146	6.26	1.003	A	3	A	B
14		Benzyl Alcohol	108	6.36	1.018	A	2	A	B
15		1,2-Dichlorobenzene	146	6.42	1.028	A	3	A	B
16		2-Methylphenol	108	6.46	1.034	A	2	A	B
17		bis(2-Chloroisopropyl)ether	45	6.49	1.039	A	2	A	B
18		Acetophenone	105	6.63	1.062	A	2	A	B
19		3+4-Methylphenol	108	6.61	1.058	A	2	A	B
20	M P	n-Nitroso-di-n-propylamine	70	6.62	1.060	A	2	A	B
21		Hexachloroethane	117	6.77	1.084	A	3	A	B
22	I	Naphthalene-d8	136	7.53	1.000	A	3	A	B
23	S	Nitrobenzene-d5	82	6.79	0.902	A	2	A	B
24		Nitrobenzene	77	6.81	0.905	A	2	A	B
25		Isophorone	82	7.04	0.935	A	2	A	B
26	C	2-Nitrophenol	139	7.13	0.947	A	2	A	B
27		2,4-Dimethylphenol	107	7.14	0.949	A	3	A	B
28		bis(2-Chloroethoxy)methane	93	7.23	0.961	A	2	A	B
29	C	2,4-Dichlorophenol	162	7.37	0.979	A	2	A	B
30		Benzoic Acid	105	7.20	0.957	QO	2	A	B
31	M	1,2,4-Trichlorobenzene	180	7.46	0.991	A	2	A	B
32		Naphthalene	128	7.55	1.003	A	3	A	B
33		4-Chloroaniline	127	7.58	1.006	A	2	A	B
34	C	Hexachlorobutadiene	225	7.66	1.018	A	3	A	B
35		Caprolactam	113	7.90	1.050	A	2	A	B
36	M C	4-Chloro-3-methylphenol	107	8.04	1.068	A	2	A	B
37		2-Methylnaphthalene	142	8.23	1.094	A	2	A	B
38		1-Methylnaphtalene	142	8.34	1.108	A	2	A	B
39	I	Acenaphthene-d10	164	9.29	1.000	A	2	A	B
40	P	Hexachlorocyclopentadiene	237	8.39	0.903	A	2	A	B
41		1,2,4,5-Tetrachlorobenzene	216	8.41	0.905	A	2	A	B
42	C	2,4,6-Trichlorophenol	196	8.51	0.916	A	3	A	B
43		2,4,5-Trichlorophenol	196	8.55	0.920	A	3	A	B
44	S	2-Fluorobiphenyl	172	8.58	0.924	A	2	A	B
45		Biphenyl	154	8.69	0.936	A	2	A	B
46		2-Chloronaphthalene	162	8.73	0.939	A	2	A	B
47		2-Nitroaniline	138	8.81	0.948	A	2	A	B
48		Dimethylphthalate	163	8.96	0.965	A	2	A	B
49		Acenaphthylene	152	9.15	0.985	A	2	A	B
50		2,6-Dinitrotoluene	165	9.04	0.973	A	2	A	B
51		3-Nitroaniline	138	9.22	0.992	A	2	A	B
52	M C	Acenaphthene	153	9.32	1.004	A	2	A	B
53	P	2,4-Dinitrophenol	184	9.32	1.003	QO	1	A	B
54		Dibenzofuran	168	9.49	1.022	A	2	A	B
55	M P	4-Nitrophenol	65	9.36	1.007	QO	2	A	B
56	M	2,4-Dinitrotoluene	165	9.45	1.017	A	2	A	B
57		2,3,4,6-Tetrachlorophenol	232	9.61	1.034	A	2	A	L
58		Fluorene	166	9.84	1.059	A	2	A	B
59		Diethylphthalate	149	9.66	1.040	A	2	A	B
60		4-Chlorophenyl phenyl ether	204	9.81	1.056	A	2	A	B
61		4-Nitroaniline	138	9.83	1.058	A	2	A	B
62	I	Phenanthrene-d10	188	10.79	1.000	A	2	A	B
63		4,6-Dinitro-2-methylphenol	198	9.86	0.914	QO	2	A	B

64		n-Nitrosodiphenylamine	169	9.92	0.920	A	2	A	B
65		1,2-Diphenylhydrazine	77	9.97	0.924	A	2	A	B
66	S	2,4,6-Tribromophenol	330	10.08	0.934	A	2	A	B
67		4-Bromophenyl-phenyl ether	248	10.30	0.955	A	2	A	B
68		Hexachlorobenzene	284	10.40	0.964	A	2	A	B
69		Atrazine	200	10.43	0.967	QO	2	A	B
70	M C	Pentachlorophenol	266	10.59	0.981	QO	2	A	B
71		Phenanthrene	178	10.81	1.002	A	2	A	B
72		Anthracene	178	10.86	1.007	A	2	A	B
73		Carbazole	167	11.01	1.020	A	2	A	B
74		Di-n-butylphthalate	149	11.29	1.046	A	2	A	B
75	C	Fluoranthene	202	12.01	1.113	A	2	A	B
76	I	Chrysene-d12	240	13.64	1.000	A	2	A	B
77		Benzidine	184	12.11	0.887	A	2	A	B
78	M	Pyrene	202	12.26	0.899	A	2	A	B
79	S	p-Terphenyl-d14	244	12.37	0.907	A	2	A	B
80		Butylbenzylphthalate	149	12.88	0.944	A	2	A	B
81		Benzo(a)anthracene	228	13.63	0.999	A	2	A	B
82		3,3'-Dichlorobenzidine	252	13.56	0.994	A	2	A	B
83		Chrysene	228	13.68	1.002	A	2	A	B
84		bis(2-Ethylhexyl)phthalate	149	13.53	0.992	A	2	A	B
85	I	Perylene-d12	264	15.71	1.000	A	2	A	B
86	C	Di-n-octylphthalate	149	14.33	0.913	A	1	A	B
87		Benzo(b)fluoranthene	252	15.07	0.960	A	3	A	B
88		Benzo(k)fluoranthene	252	15.11	0.962	A	3	A	B
89	C	Benzo(a)pyrene	252	15.61	0.994	A	3	A	L
90		Indeno(1,2,3-cd)pyrene	276	17.93	1.141	A	2	A	B
91		Dibenzo(a,h)anthracene	278	17.94	1.142	A	2	A	B
92		Benzo(g,h,i)perylene	276	18.61	1.185	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

0802ABN.M Tue Aug 07 11:09:45 2018 SS

Response Factor Report GCMS-D

Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Aug 07 11:07:34 2018
Response via : Initial Calibration

Calibration Files
2 =DS17875.D 5 =DS17876.D 10 =DS17877.D
50 =DS17879.D 60 =DS17880.D 80 =DS17881.D

		Compound	2	5	10	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
2)		1,4-Dioxane		0.657	0.747	0.699	0.656	0.597	0.671	8.30
3)		N-nitrosodimethylam	0.639	0.745	0.800	0.791	0.688	0.661	0.721	9.45
4)		Pyridine	1.847	1.740	1.839	1.883	1.681	1.654	1.774	5.38
5)	S	2-Fluorophenol	1.207	1.351	1.426	1.456	1.406	1.380	1.371	6.42
6)		Benzaldehyde	0.982	1.059	1.091	1.050	0.953	0.866	1.000	8.33
7)		Aniline	2.080	2.098	2.135	2.113	2.068	1.998	2.082	2.28
8)	S	Phenol-d6	1.598	1.727	1.824	1.805	1.768	1.725	1.741	4.63
9)	M C	Phenol	1.704	1.834	1.850	1.753	1.710	1.640	1.749	4.63
10)		bis(2-Chloroethyl)e	1.494	1.428	1.509	1.431	1.424	1.369	1.442	3.55
11)	M	2-Chlorophenol	1.609	1.565	1.571	1.485	1.457	1.423	1.518	4.84
12)		1,3-Dichlorobenzene	1.806	1.679	1.716	1.631	1.597	1.579	1.668	5.06
13)	M C	1,4-Dichlorobenzene	1.757	1.622	1.673	1.546	1.521	1.481	1.600	6.48
14)		Benzyl Alcohol	0.809	0.827	0.877	0.960	0.968	0.975	0.903	8.26
15)		1,2-Dichlorobenzene	1.752	1.668	1.674	1.539	1.519	1.494	1.608	6.48
16)		2-Methylphenol	1.276	1.304	1.320	1.281	1.279	1.290	1.292	1.33
17)		bis(2-Chloroisoprop	2.861	2.542	2.464	2.272	2.285	2.201	2.437	10.00
18)		Acetophenone	1.837	2.042	1.946	1.846	1.821	1.800	1.882	4.95
19)		3+4-Methylphenol	1.283	1.387	1.506	1.403	1.417	1.402	1.400	5.11
20)	M P	n-Nitroso-di-n-prop	1.091	1.036	0.996	0.929	0.953	0.961	0.994	6.03
21)		Hexachloroethane	0.701	0.677	0.656	0.640	0.642	0.654	0.662	3.55
22)	I	Naphthalene-d8	----------ISTD----------							
23)	S	Nitrobenzene-d5	0.375	0.361	0.382	0.375	0.381	0.360	0.372	2.63
24)		Nitrobenzene	0.385	0.386	0.398	0.390	0.396	0.370	0.388	2.54
25)		Isophorone	0.589	0.581	0.604	0.569	0.583	0.549	0.579	3.25
26)	C	2-Nitrophenol	0.171	0.186	0.190	0.213	0.213	0.211	0.197	9.01
27)		2,4-Dimethylphenol	0.324	0.329	0.349	0.327	0.328	0.315	0.329	3.42
28)		bis(2-Chloroethoxy)	0.389	0.408	0.431	0.424	0.415	0.405	0.412	3.64
29)	C	2,4-Dichlorophenol	0.256	0.287	0.312	0.310	0.310	0.293	0.295	7.30
30)		Benzoic Acid	0.018	0.018	0.020	0.058	0.074	0.093	0.047	69.33
31)	M	1,2,4-Trichlorobenz	0.363	0.337	0.352	0.333	0.332	0.314	0.338	4.97
32)		Naphthalene	1.204	1.203	1.234	1.104	1.057	0.971	1.129	9.11
33)		4-Chloroaniline	0.461	0.410	0.449	0.454	0.456	0.430	0.443	4.41
34)	C	Hexachlorobutadiene	0.158	0.155	0.158	0.149	0.150	0.141	0.152	4.34
35)		Caprolactam	0.108	0.109	0.123	0.138	0.146	0.135	0.126	12.46
36)	M C	4-Chloro-3-methylph	0.272	0.328	0.311	0.321	0.326	0.304	0.310	6.79
37)		2-Methylnaphthalene	0.762	0.786	0.767	0.695	0.670	0.596	0.712	10.21
38)		1-Methylnaphtalene	0.757	0.787	0.759	0.649	0.648	0.579	0.697	11.88
39)	I	Acenaphthene-d10	----------ISTD----------							
40)	P	Hexachlorocyclopent	0.182	0.219	0.231	0.275	0.279	0.287	0.246	16.97
41)		1,2,4,5-Tetrachloro	0.619	0.593	0.581	0.522	0.511	0.502	0.555	8.88
42)	C	2,4,6-Trichlorophen	0.384	0.373	0.373	0.400	0.393	0.391	0.386	2.82
43)		2,4,5-Trichlorophen	0.350	0.355	0.371	0.402	0.401	0.398	0.380	6.26
44)	S	2-Fluorobiphenyl	1.643	1.600	1.545	1.422	1.354	1.296	1.477	9.50
45)		Biphenyl	1.805	1.777	1.818	1.653	1.564	1.508	1.688	7.84
46)		2-Chloronaphthalene	1.452	1.434	1.423	1.294	1.257	1.216	1.346	7.60
47)		2-Nitroaniline	0.380	0.437	0.442	0.499	0.490	0.484	0.455	9.86
48)		Dimethylphthalate	1.557	1.459	1.498	1.400	1.325	1.279	1.420	7.44
49)		Acenaphthylene	2.329	2.308	2.331	2.057	1.972	1.842	2.140	9.90
50)		2,6-Dinitrotoluene	0.356	0.355	0.351	0.366	0.356	0.353	0.356	1.40
51)		3-Nitroaniline	0.385	0.374	0.414	0.415	0.411	0.404	0.401	4.25
52)	M C	Acenaphthene	1.440	1.437	1.455	1.323	1.260	1.195	1.352	8.06
53)	P	2,4-Dinitrophenol	0.007	0.023	0.049	0.179	0.194	0.201	0.109	84.26
54)		Dibenzofuran	2.006	1.900	1.962	1.723	1.658	1.560	1.801	10.00
55)	M P	4-Nitrophenol	0.131	0.098	0.142	0.227	0.246	0.250	0.182	36.40
56)	M	2,4-Dinitrotoluene	0.393	0.408	0.458	0.497	0.486	0.476	0.453	9.47
57)		2,3,4,6-Tetrachloro	0.217	0.216	0.243	0.273	0.269	0.274	0.249	11.02

(#) = Out of Range

Response Factor Report GCMS-D

Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Aug 07 11:07:34 2018
Response via : Initial Calibration

Calibration Files
2 =DS17875.D 5 =DS17876.D 10 =DS17877.D
50 =DS17879.D 60 =DS17880.D 80 =DS17881.D

		Compound	2	5	10	50	60	80	Avg	%RSD
58)		Fluorene	1.634	1.622	1.615	1.480	1.371	1.281	1.501	9.95
59)		Diethylphthalate	1.470	1.525	1.501	1.418	1.344	1.282	1.423	6.66
60)		4-Chlorophenyl phen	0.674	0.675	0.705	0.680	0.631	0.612	0.663	5.22
61)		4-Nitroaniline	0.341	0.336	0.396	0.415	0.397	0.384	0.378	8.57
62)	I	Phenanthrene-d10	----------	ISTD	----------					
63)		4,6-Dinitro-2-methy	0.030	0.061	0.088	0.147	0.152	0.151	0.105	50.36
64)		n-Nitrosodiphenylam	0.706	0.706	0.729	0.690	0.685	0.630	0.691	4.89
65)		1,2-Diphenylhydrazi	0.907	0.943	0.885	0.882	0.848	0.789	0.876	6.01
66)	S	2,4,6-Tribromopheno	0.076	0.078	0.078	0.091	0.094	0.090	0.085	9.35
67)		4-Bromophenyl-pheny	0.188	0.182	0.205	0.195	0.195	0.187	0.192	4.34
68)		Hexachlorobenzene	0.239	0.237	0.226	0.211	0.211	0.202	0.221	6.90
69)		Atrazine	0.166	0.182	0.186	0.175	0.178	0.171	0.176	4.00
70)	M C	Pentachlorophenol	0.012	0.018	0.029	0.083	0.092	0.095	0.055	71.67#
71)		Phenanthrene	1.245	1.224	1.263	1.116	1.057	0.975	1.147	10.14
72)		Anthracene	1.207	1.209	1.280	1.169	1.097	1.004	1.161	8.40
73)		Carbazole	1.132	1.177	1.243	1.133	1.076	0.988	1.125	7.75
74)		Di-n-butylphthalate	1.399	1.477	1.532	1.385	1.265	1.160	1.370	9.99
75)	C	Fluoranthene	1.235	1.275	1.372	1.204	1.111	1.041	1.206	9.77
76)	I	Chrysene-d12	----------	ISTD	----------					
77)		Benzidine	0.688	0.803	0.803	0.878	0.856	0.765	0.799	8.47
78)	M	Pyrene	1.553	1.630	1.611	1.493	1.495	1.414	1.533	5.30
79)	S	p-Terphenyl-d14	0.905	0.922	0.952	0.907	0.916	0.883	0.914	2.49
80)		Butylbenzylphthalat	0.782	0.772	0.834	0.822	0.844	0.795	0.808	3.63
81)		Benzo(a)anthracene	1.384	1.306	1.354	1.274	1.270	1.228	1.303	4.46
82)		3,3'-Dichlorobenzid	0.418	0.438	0.442	0.429	0.429	0.412	0.428	2.64
83)		Chrysene	1.322	1.262	1.314	1.226	1.203	1.143	1.245	5.50
84)		bis(2-Ethylhexyl)ph	1.027	1.017	1.107	1.112	1.102	1.056	1.070	3.96
85)	I	Perylene-d12	----------	ISTD	----------					
86)	C	Di-n-octylphthalate	1.629	1.719	1.779	1.752	1.706	1.623	1.701	3.76
87)		Benzo(b)fluoranthen	1.135	1.133	1.122	1.096	1.086	1.054	1.104	2.88
88)		Benzo(k)fluoranthen	1.180	1.154	1.130	1.081	1.109	1.083	1.123	3.50
89)	C	Benzo(a)pyrene	1.083	1.120	1.161	1.150	1.138	1.104	1.126	2.60
90)		Indeno(1,2,3-cd)pyr	1.241	1.215	1.248	1.226	1.273	1.223	1.238	1.71
91)		Dibenzo(a,h)anthrac	1.038	1.064	1.080	1.084	1.085	1.064	1.069	1.70
92)		Benzo(g,h,i)perylen	1.021	1.009	1.031	1.063	1.076	1.052	1.042	2.48

(#) = Out of Range

Response Factor Report GCMS-A

Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Mon Aug 27 15:35:59 2018
Response via : Initial Calibration

Calibration Files
2 =AS06908.D 5 =AS06909.D 20 =AS06911.D
50 =AS06912.D 60 =AS06913.D 80 =AS06914.D

		Compound	2	5	20	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
2)		Pyridine	1.251	1.239	1.295	1.281	1.270	1.298	1.272	1.85
3)		N-Nitroso-dimethyla	0.594	0.567	0.600	0.588	0.590	0.605	0.591	2.23
4)	S	2-Fluorophenol	1.017	0.977	1.115	1.150	1.198	1.212	1.111	8.65
5)		Benzaldehyde	0.922	0.945	0.957	0.914	0.891	0.840	0.911	4.62
6)		Aniline	1.439	1.424	1.591	1.589	1.538	1.512	1.516	4.75
7)	S	Phenol-d6	1.137	1.163	1.365	1.396	1.407	1.423	1.315	9.85
8)		Phenol	1.239	1.276	1.415	1.442	1.447	1.464	1.381	7.04
9)		bis(2-Chloroethyl)e	1.179	1.224	1.225	1.217	1.233	1.194	1.212	1.72
10)		2-Chlorophenol	1.102	1.135	1.303	1.320	1.330	1.351	1.257	8.65
11)		1,3-Dichlorobenzene	1.613	1.597	1.691	1.650	1.652	1.653	1.643	2.03
12)		1,4-Dichlorobenzene	1.608	1.596	1.627	1.612	1.595	1.591	1.605	0.86
13)		Benzyl Alcohol	0.660	0.718	0.797	0.801	0.815	0.830	0.770	8.64
14)		1,2-Dichlorobenzene	1.520	1.506	1.606	1.572	1.554	1.574	1.555	2.38
15)		2-Methylphenol	0.974	1.015	1.100	1.085	1.078	1.094	1.058	4.83
16)		bis(2-Chloroisoprop	2.515	2.504	2.581	2.466	2.436	2.418	2.487	2.40
17)		Acetophenone	1.567	1.576	1.635	1.578	1.581	1.606	1.591	1.61
18)		3+4-Methylphenol	0.956	0.975	1.132	1.162	1.161	1.189	1.096	9.37
19)		n-Nitroso-di-n-prop	0.639	0.670	0.705	0.691	0.681	0.691	0.680	3.39
20)		Hexachloroethane	0.546	0.543	0.569	0.575	0.575	0.581	0.565	2.83
21)	I	Naphthalene-d8	----------ISTD----------							
22)	S	Nitrobenzene-d5	0.221	0.213	0.252	0.313	0.308	0.313	0.270	17.49
23)		Nitrobenzene	0.330	0.328	0.343	0.331	0.327	0.326	0.331	1.87
24)		Isophorone	0.454	0.469	0.510	0.496	0.494	0.496	0.487	4.28
25)		2-Nitrophenol	0.057	0.063	0.106	0.141	0.162	0.174	0.117	42.68
26)		2,4-Dimethylphenol	0.267	0.262	0.286	0.284	0.282	0.286	0.278	3.74
27)		bis(2-Chloroethoxy)	0.345	0.329	0.359	0.342	0.341	0.345	0.344	2.77
28)		2,4-Dichlorophenol	0.223	0.220	0.284	0.308	0.309	0.317	0.277	16.01
29)		Benzoic Acid	0.011	0.015	0.035	0.043	0.061	0.080	0.041	65.29
30)		1,2,4-Trichlorobenz	0.375	0.369	0.387	0.380	0.375	0.376	0.377	1.62
31)		Naphthalene	1.115	1.094	1.142	1.087	1.073	1.068	1.097	2.55
32)		4-Chloroaniline	0.347	0.362	0.383	0.323	0.304	0.304	0.337	9.63
33)		Hexachlorobutadiene	0.233	0.232	0.242	0.235	0.232	0.236	0.235	1.64
34)		Caprolactam	0.066	0.070	0.090	0.095	0.096	0.100	0.086	16.61
35)		4-Chloro-3-methylph	0.185	0.192	0.242	0.254	0.260	0.263	0.233	15.03
36)		2-Methylnaphthalene	0.711	0.706	0.754	0.713	0.709	0.698	0.715	2.75
37)		1-Methylnaphthalene	0.686	0.681	0.714	0.677	0.669	0.663	0.682	2.62
38)	I	Acenaphthene-d10	----------ISTD----------							
39)		Hexachlorocyclopent	0.304	0.307	0.406	0.456	0.471	0.481	0.404	19.94
40)		1,2,4,5-Tetrachloro	0.732	0.719	0.763	0.757	0.749	0.741	0.743	2.18
41)		2,4,6-Trichlorophen	0.284	0.317	0.411	0.464	0.458	0.459	0.399	19.85
42)		2,4,5-Trichlorophen	0.316	0.327	0.427	0.473	0.472	0.479	0.416	18.15
43)	S	2-Fluorobiphenyl	1.545	1.560	1.645	1.605	1.589	1.551	1.582	2.43
44)		Biphenyl	1.616	1.662	1.726	1.702	1.681	1.639	1.671	2.44
45)		2-Chloronaphthalene	1.335	1.340	1.407	1.384	1.378	1.350	1.366	2.08
46)		2-Nitroaniline	0.142	0.158	0.279	0.370	0.394	0.408	0.292	40.80
47)		Dimethylphthalate	1.457	1.455	1.486	1.476	1.462	1.452	1.465	0.92
48)		Acenaphthylene	1.979	2.028	2.147	2.078	2.035	2.022	2.048	2.83
49)		2,6-Dinitrotoluene	0.112	0.149	0.256	0.313	0.328	0.344	0.250	39.24
50)		3-Nitroaniline	0.139	0.162	0.210	0.201	0.204	0.199	0.186	15.47
51)		Acenaphthene	1.365	1.358	1.409	1.380	1.367	1.347	1.371	1.57
52)		2,4-Dinitrophenol	0.004	0.011	0.038	0.080	0.106	0.140	0.063	86.88
53)		Dibenzofuran	1.819	1.808	1.885	1.822	1.775	1.758	1.811	2.43
54)		4-Nitrophenol	0.041	0.029	0.078	0.148	0.173	0.184	0.109	62.78
55)		2,4-Dinitrotoluene	0.168	0.144	0.277	0.384	0.418	0.443	0.306	42.22
56)		2,3,4,6-Tetrachloro	0.226	0.264	0.348	0.393	0.414	0.411	0.343	23.38
57)		Fluorene	1.513	1.537	1.585	1.541	1.520	1.518	1.536	1.74

(#) = Out of Range

Response Factor Report GCMS-A

Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Mon Aug 27 15:35:59 2018
Response via : Initial Calibration

Calibration Files
2 =AS06908.D 5 =AS06909.D 20 =AS06911.D
50 =AS06912.D 60 =AS06913.D 80 =AS06914.D

		Compound	2	5	20	50	60	80	Avg	%RSD
58)		Diethylphthalate	1.394	1.391	1.468	1.456	1.447	1.436	1.432	2.27
59)		4-Chlorophenyl phen	0.765	0.765	0.800	0.777	0.771	0.776	0.776	1.68
60)		4-Nitroaniline	0.159	0.170	0.161	0.201	0.200	0.196	0.181	10.98
61)	I	Phenanthrene-d10	----------ISTD----------							
62)		4,6-Dinitro-2-methy	0.015	0.020	0.047	0.081	0.097	0.115	0.062	66.38
63)		n-Nitrosodiphenylam	0.673	0.658	0.663	0.633	0.617	0.626	0.645	3.51
64)		1,2-Diphenylhydrazi	0.649	0.652	0.670	0.628	0.626	0.625	0.642	2.83
65)	S	2,4,6-Tribromopheno	0.056	0.066	0.102	0.112	0.115	0.119	0.095	28.65
66)		4-Bromophenyl-pheny	0.244	0.253	0.269	0.260	0.259	0.262	0.258	3.25
67)		Hexachlorobenzene	0.287	0.272	0.286	0.277	0.273	0.277	0.278	2.24
68)		Atrazine	0.172	0.183	0.188	0.172	0.167	0.162	0.174	5.75
69)		Pentachlorophenol	0.055	0.063	0.127	0.158	0.165	0.175	0.124	42.81
70)		Phenanthrene	1.162	1.152	1.183	1.141	1.119	1.113	1.145	2.31
71)		Anthracene	1.123	1.148	1.210	1.161	1.136	1.126	1.151	2.82
72)		Carbazole	1.051	1.047	0.682	0.574	0.631	0.632	0.769	28.48
73)		Di-n-butylphthalate	1.179	1.251	1.412	1.333	1.303	1.277	1.293	6.08
74)		Fluoranthene	1.366	1.375	1.471	1.402	1.387	1.347	1.391	3.11
75)	I	Chrysene-d12	----------ISTD----------							
76)		Benzidine	0.131	0.087	0.042	0.028	0.029	0.028	0.058	73.75
77)		Pyrene	1.255	1.280	1.350	1.300	1.284	1.259	1.288	2.70
78)	S	p-Terphenyl-d14	0.953	0.966	1.051	1.011	1.006	0.985	0.995	3.53
79)		Butylbenzylphthalat	0.418	0.463	0.580	0.593	0.594	0.597	0.541	14.67
80)		Benzo(a)anthracene	1.292	1.283	1.346	1.330	1.309	1.304	1.311	1.81
81)		3,3'-Dichlorobenzid	0.316	0.302	0.235	0.206	0.203	0.207	0.245	20.95
82)		Chrysene	1.169	1.184	1.232	1.205	1.195	1.182	1.194	1.84
83)		bis(2-Ethylhexyl)ph	0.613	0.666	0.845	0.859	0.847	0.844	0.779	14.06
84)	I	Perylene-d12	----------ISTD----------							
85)		Di-n-octylphthalate	0.898	0.991	1.349	1.389	1.408	1.378	1.236	18.47
86)		Benzo(b)fluoranthen	0.972	1.037	1.119	1.135	1.146	1.151	1.093	6.67
87)		Benzo(k)fluoranthen	1.080	1.048	1.129	1.081	1.092	1.056	1.081	2.67
88)		Benzo(a)pyrene	0.999	1.042	1.153	1.149	1.157	1.150	1.108	6.26
89)		Indeno(1,2,3-cd)pyr	1.067	1.094	1.245	1.275	1.291	1.288	1.210	8.41
90)		Dibenzo(a,h)anthrac	0.919	0.958	1.088	1.105	1.120	1.118	1.051	8.47
91)		Benzo(g,h,i)perylen	0.896	0.925	1.017	1.037	1.049	1.061	0.997	6.96

(#) = Out of Range

Compound List Report GCMS-A

Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Aug 28 19:14:16 2018
Response via : Initial Calibration
Total Cpnds : 91

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,4-Dichlorobenzene-d4	152	6.51	1.000	A	2	A	B
2		Pyridine	79	3.77	0.579	A	1	A	B
3		N-Nitroso-dimethylamine	42	3.70	0.569	A	2	A	B
4	S	2-Fluorophenol	112	5.18	0.796	A	3	A	B
5		Benzaldehyde	77	6.07	0.933	A	3	A	B
6		Aniline	93	6.17	0.948	A	2	A	B
7	S	Phenol-d6	99	6.09	0.936	A	2	A	B
8		Phenol	94	6.11	0.938	A	2	A	B
9		bis(2-Chloroethyl)ether	93	6.21	0.954	A	2	A	B
10		2-Chlorophenol	128	6.30	0.968	A	2	A	B
11		1,3-Dichlorobenzene	146	6.46	0.992	A	3	A	B
12		1,4-Dichlorobenzene	146	6.53	1.003	A	3	A	B
13		Benzyl Alcohol	108	6.62	1.017	A	2	A	B
14		1,2-Dichlorobenzene	146	6.69	1.027	A	3	A	B
15		2-Methylphenol	108	6.71	1.031	A	2	A	B
16		bis(2-Chloroisopropyl)ether	45	6.75	1.036	A	2	A	B
17		Acetophenone	105	6.90	1.059	A	2	A	B
18		3+4-Methylphenol	108	6.86	1.054	A	2	A	B
19		n-Nitroso-di-n-propylamine	70	6.88	1.057	A	2	A	B
20		Hexachloroethane	117	7.03	1.080	A	3	A	B
21	I	Naphthalene-d8	136	7.79	1.000	A	3	A	B
22	S	Nitrobenzene-d5	82	7.06	0.906	A	2	A	B
23		Nitrobenzene	77	6.89	0.885	A	2	A	B
24		Isophorone	82	7.30	0.937	A	2	A	B
25		2-Nitrophenol	139	7.39	0.949	QO	2	A	B
26		2,4-Dimethylphenol	107	7.39	0.949	A	3	A	B
27		bis(2-Chloroethoxy)methane	93	7.48	0.961	A	2	A	B
28		2,4-Dichlorophenol	162	7.63	0.979	A	2	A	B
29		Benzoic Acid	105	7.46	0.958	QO	2	A	B
30		1,2,4-Trichlorobenzene	180	7.72	0.991	A	2	A	B
31		Naphthalene	128	7.81	1.003	A	3	A	B
32		4-Chloroaniline	127	7.83	1.006	A	2	A	B
33		Hexachlorobutadiene	225	7.92	1.017	A	3	A	B
34		Caprolactam	113	8.19	1.051	A	2	A	B
35		4-Chloro-3-methylphenol	107	8.29	1.065	A	2	A	B
36		2-Methylnaphthalene	142	8.50	1.091	A	2	A	B
37		1-Methylnaphthalene	142	8.61	1.105	A	2	A	B
38	I	Acenaphthene-d10	164	9.56	1.000	A	2	A	B
39		Hexachlorocyclopentadiene	237	8.66	0.906	A	2	A	B
40		1,2,4,5-Tetrachlorobenzene	216	8.67	0.907	A	2	A	B
41		2,4,6-Trichlorophenol	196	8.77	0.917	A	3	A	B
42		2,4,5-Trichlorophenol	196	8.81	0.921	A	3	A	B
43	S	2-Fluorobiphenyl	172	8.85	0.925	A	2	A	B
44		Biphenyl	154	8.96	0.937	A	2	A	B
45		2-Chloronaphthalene	162	9.00	0.941	A	2	A	B
46		2-Nitroaniline	138	9.08	0.949	QO	2	A	B
47		Dimethylphthalate	163	9.23	0.965	A	2	A	B
48		Acenaphthylene	152	9.42	0.985	A	2	A	B
49		2,6-Dinitrotoluene	165	9.30	0.973	QO	2	A	B
50		3-Nitroaniline	138	9.49	0.992	A	2	A	B
51		Acenaphthene	153	9.60	1.003	A	2	A	B
52		2,4-Dinitrophenol	184	9.58	1.002	QO	1	A	B
53		Dibenzofuran	168	9.76	1.021	A	2	A	B
54		4-Nitrophenol	65	9.61	1.005	QO	2	A	B
55		2,4-Dinitrotoluene	165	9.71	1.016	QO	2	A	B
56		2,3,4,6-Tetrachlorophenol	232	9.88	1.033	QO	2	A	B
57		Fluorene	166	10.11	1.057	A	2	A	B
58		Diethylphthalate	149	9.93	1.038	A	2	A	B
59		4-Chlorophenyl phenyl ether	204	10.08	1.054	A	2	A	B
60		4-Nitroaniline	138	10.10	1.056	A	2	A	B
61	I	Phenanthrene-d10	188	11.06	1.000	A	2	A	B
62		4,6-Dinitro-2-methylphenol	198	10.13	0.916	QO	2	A	B
63		n-Nitrosodiphenylamine	169	10.19	0.921	A	2	A	B

64		1,2-Diphenylhydrazine	77	10.24	0.926	A	2	A	B
65	S	2,4,6-Tribromophenol	330	10.35	0.936	QO	2	A	B
66		4-Bromophenyl-phenyl ether	248	10.58	0.956	A	2	A	B
67		Hexachlorobenzene	284	10.68	0.965	A	2	A	B
68		Atrazine	200	10.69	0.967	A	2	A	B
69		Pentachlorophenol	266	10.86	0.981	QO	2	A	B
70		Phenanthrene	178	11.09	1.002	A	2	A	B
71		Anthracene	178	11.14	1.007	A	2	A	B
72		Carbazole	167	11.28	1.019	QO	2	A	B
73		Di-n-butylphthalate	149	11.55	1.044	A	2	A	B
74		Fluoranthene	202	12.31	1.112	A	2	A	B
75	I	Chrysene-d12	240	13.99	1.000	A	2	A	B
76		Benzidine	184	12.40	0.887	Q	2	A	B
77		Pyrene	202	12.57	0.898	A	2	A	B
78	S	p-Terphenyl-d14	244	12.67	0.906	A	2	A	B
79		Butylbenzylphthalate	149	13.19	0.943	A	2	A	B
80		Benzo(a)anthracene	228	13.97	0.999	A	2	A	B
81		3,3'-Dichlorobenzidine	252	13.89	0.993	QO	2	A	B
82		Chrysene	228	14.02	1.002	A	2	A	B
83		bis(2-Ethylhexyl)phthalate	149	13.85	0.990	A	2	A	B
84	I	Perylene-d12	264	16.25	1.000	A	2	A	B
85		Di-n-octylphthalate	149	14.71	0.905	A	1	A	B
86		Benzo(b)fluoranthene	252	15.54	0.956	A	3	A	B
87		Benzo(k)fluoranthene	252	15.59	0.959	A	3	A	B
88		Benzo(a)pyrene	252	16.15	0.994	A	3	A	B
89		Indeno(1,2,3-cd)pyrene	276	18.76	1.154	A	2	A	B
90		Dibenzo(a,h)anthracene	278	18.79	1.156	A	2	A	B
91		Benzo(g,h,i)perylene	276	19.54	1.202	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

0824ABN.M Tue Aug 28 19:16:51 2018 SS

CALIBRATION VERIFICATION SUMMARY

SW 846 8270D

CCV ID: S8J1212-CCV1 **Analyzed:** 10/11/18 14:28

Analyte	Response Factor	Expected Result	Result		% Drift	Limit(s)
1-Methylnaphthalene	0.6436179	75.20	70.99		6	30
2,3,4,6-Tetrachlorophenol	0.3778771	50.00	48.13		4	30
2,4,5-Trichlorophenol	0.4462864	50.00	53.70		7	30
2,4,6-Trichlorophenol	0.4375443	50.00	54.87		10	20 (CCC)
2,4-Dichlorophenol	0.296475	50.00	53.56		7	20 (CCC)
2,4-Dimethylphenol	0.2792829	50.00	50.26		1	30
2,4-Dinitrophenol	0.1581587	50.00	67.53	*	35	0.05 (SPCC)
2,4-Dinitrotoluene	0.4601779	50.00	57.70		15	30
2,6-Dinitrotoluene	0.3359065	50.00	53.45		7	30
2-Chloronaphthalene	1.282212	50.00	46.94		6	30
2-Chlorophenol	1.258503	50.00	50.06		0	30
2-Methylnaphthalene	0.6798893	75.20	71.47		5	30
2-Methylphenol	1.023695	50.00	48.39		3	30
2-Nitroaniline	0.3991819	50.00	53.68		7	30
2-Nitrophenol	0.1930638	50.00	61.61		23	20 (CCC)
3,3'-Dichlorobenzidine	0.2253867	50.00	53.90		8	30
3+4-Methylphenol	1.118261	50.00	51.01		2	30
3-Nitroaniline	0.1810068	50.00	48.75		2	30
4,6-Dinitro-2-methylphenol	0.1480051	50.00	70.36	*	41	30
4-Bromophenyl-phenyl ether	0.2474413	50.00	47.93		4	30
4-Chloro-3-methylphenol	0.2581365	50.00	55.44		11	20 (CCC)
4-Chloroaniline	0.313133	50.00	46.43		7	30
4-Chlorophenyl phenyl ether	0.7440782	50.00	47.97		4	30
4-Nitroaniline	0.1499715	50.00	41.38		17	30
4-Nitrophenol	0.1072094	50.00	41.78		16	0.05 (SPCC)
Acenaphthene	1.267501	50.00	46.23		8	20 (CCC)
Acenaphthylene	1.885835	50.00	46.04		8	30
Acetophenone	1.633287	50.00	51.34		3	30
Anthracene	1.058996	50.00	46.02		8	30
Atrazine	0.1515081	50.00	43.54		13	30
Benzaldehyde	0.7238946	50.00	41.50		17	30
Benzo(a)anthracene	1.207992	50.00	46.08		8	30
Benzo(a)pyrene	1.028786	50.00	46.41		7	20 (CCC)
Benzo(b)fluoranthene	1.028701	50.00	47.04		6	30
Benzo(g,h,i)perylene	0.9923932	50.00	49.75		1	30
Benzo(k)fluoranthene	0.9732221	50.00	45.02		10	30
Biphenyl	1.521553	50.00	45.53		9	30
bis(2-chloroethoxy)methane	0.332707	50.00	48.42		3	30
bis(2-chloroethyl)ether	1.264599	50.00	52.17		4	30
bis(2-chloroisopropyl)ether	2.184053	50.00	43.92		12	30
bis(2-ethylhexyl)phthalate	0.7700481	50.00	49.43		1	30
Butylbenzylphthalate	0.5399785	50.00	49.93		0	30
Caprolactam	9.298892E-02	50.00	53.96		8	30
Carbazole	0.6699405	50.00	54.06		8	30
Chrysene	1.104658	50.00	46.25		8	30
Dibenzo(a,h)anthracene	1.05841	50.00	50.34		1	30
Dibenzofuran	1.680528	50.00	46.39		7	30

F-VII

CALIBRATION VERIFICATION SUMMARY

SW 846 8270D

CCV ID: S8J1212-CCV1 **Analyzed:** 10/11/18 14:28

Analyte	Response Factor	Expected Result	Result	% Drift	Limit(s)
Diethylphthalate	1.358499	50.00	47.44	5	30
Dimethylphthalate	1.363624	50.00	46.55	7	30
Di-n-butylphthalate	1.229137	50.00	47.55	5	30
Di-n-octylphthalate	1.350972	50.00	50.68	1	20 (CCC)
Fluoranthene	1.283546	50.00	46.12	8	20 (CCC)
Fluorene	1.402544	50.00	45.66	9	30
Hexachlorobenzene	0.2633497	50.00	47.29	5	30
Hexachlorobutadiene	0.2328334	50.00	49.50	1	20 (CCC)
Hexachlorocyclopentadiene	0.3853038	50.00	47.67	5	0.05 (SPCC)
Hexachloroethane	0.5914757	50.00	52.34	5	30
Indeno(1,2,3-cd)pyrene	1.198203	50.00	49.52	1	30
Isophorone	0.470318	50.00	48.33	3	30
Naphthalene	0.9762417	50.00	44.51	11	30
Nitrobenzene	0.3191734	50.00	48.24	4	30
n-Nitroso-dimethylamine	0.5318674	50.00	45.03	10	30
n-Nitroso-di-n-propylamine	0.672835	50.00	49.50	1	0.05 (SPCC)
n-Nitrosodiphenylamine	0.5759163	50.00	44.65	11	20 (CCC)
Pentachlorophenol	0.1223561	50.00	41.00	18	20 (CCC)
Phenanthrene	1.030003	50.00	44.98	10	30
Phenol	1.302726	50.00	47.18	6	20 (CCC)
Pyrene	1.194812	50.00	46.37	7	30

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\A\DATA\20181011\AS07395.D Vial: 3
Acq On : 11 Oct 2018 14:28 Operator: GCH
Sample : SEQ-CCV Inst : GCMS-A
Misc : Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 12 10:55 2018 Quant Results File: 0824ABN.RES

Quant Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Fri Oct 12 10:53:36 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.27	152	171909	40.00	ug/kg	0.00
21) Naphthalene-d8	7.55	136	668028	40.00	ug/kg	0.00
38) Acenaphthene-d10	9.32	164	361834	40.00	ug/kg	0.00
61) Phenanthrene-d10	10.81	188	711170	40.00	ug/kg	0.00
75) Chrysene-d12	13.68	240	779517	40.00	ug/kg	0.00
84) Perylene-d12	15.76	264	840849	40.00	ug/kg	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.94	112	235747	49.36	ug/kg	-0.05
Spiked Amount 100.000	Range 15 - 62		Recovery = 49.36%			
7) Phenol-d6	5.87	99	277152	49.03	ug/kg	0.00
Spiked Amount 100.000	Range 15 - 45		Recovery = 49.03%#			
22) Nitrobenzene-d5	6.82	82	263141	58.34	ug/kg	-0.02
Spiked Amount 50.000	Range 32 - 101		Recovery = 116.68%#			
43) 2-Fluorobiphenyl	8.61	172	651989	45.55	ug/kg	-0.01
Spiked Amount 50.000	Range 36 - 103		Recovery = 91.10%			
65) 2,4,6-Tribromophenol	10.11	330	99993	50.45	ug/kg	0.00
Spiked Amount 100.000	Range 28 - 167		Recovery = 50.45%			
78) p-Terphenyl-d14	12.40	244	918700	47.36	ug/kg	0.01
Spiked Amount 50.000	Range 44 - 117		Recovery = 94.72%			
Target Compounds						Qvalue
2) Pyridine	3.47	79	257481m	47.08	ng/uL	
3) N-Nitroso-dimethylamine	3.41	42	114291m	45.03	ng/uL	
5) Benzaldehyde	5.83	77	155555m	41.50	ug/kg	
6) Aniline	5.94	93	300167	46.08	ug/kg	96
8) Phenol	5.88	94	279938	47.18	ug/kg	89
9) bis(2-Chloroethyl)ether	5.98	93	271745	52.17	ug/kg	90
10) 2-Chlorophenol	6.06	128	270435	50.06	ug/kg	99
11) 1,3-Dichlorobenzene	6.22	146	330678	46.84	ug/kg	99
12) 1,4-Dichlorobenzene	6.28	146	320640	46.49	ug/kg	98
13) Benzyl Alcohol	6.39	108	140178	42.36	ug/kg	95
14) 1,2-Dichlorobenzene	6.44	146	318668	47.68	ug/kg	99
15) 2-Methylphenol	6.49	108	219978	48.39	ug/kg	97
16) bis(2-Chloroisopropyl)ethe	6.51	45	469323	43.92	ug/kg	96
17) Acetophenone	6.66	105	350971	51.34	ug/kg	89
18) 3+4-Methylphenol	6.64	108	240299	51.01	ug/kg	99
19) n-Nitroso-di-n-propylamine	6.65	70	144583	49.50	ug/kg	90
20) Hexachloroethane	6.79	117	127100	52.34	ug/kg	98
23) Nitrobenzene	6.84	77	266521	48.24	ug/kg	99
24) Isophorone	7.07	82	392732	48.33	ug/kg	99
25) 2-Nitrophenol	7.16	139	161215	61.61	ug/kg	98
26) 2,4-Dimethylphenol	7.17	107	233211	50.26	ug/kg	96
27) bis(2-Chloroethoxy)methane	7.25	93	277822	48.42	ug/kg	97
28) 2,4-Dichlorophenol	7.40	162	247567	53.56	ug/kg	98
29) Benzoic Acid	7.25	105	41557	50.02	ug/kg	87
30) 1,2,4-Trichlorobenzene	7.49	180	302410	48.05	ug/kg	99
31) Naphthalene	7.57	128	815196	44.51	ug/kg	99
32) 4-Chloroaniline	7.60	127	261477m	46.43	ug/kg	
33) Hexachlorobutadiene	7.68	225	194424	49.50	ug/kg	99
34) Caprolactam	7.96	113	77649	53.96	ug/kg	99
35) 4-Chloro-3-methylphenol	8.07	107	215553	55.44	ug/kg	98
36) 2-Methylnaphthalene	8.26	142	853868	71.47	ug/kg	99
37) 1-Methylnaphthalene	8.36	142	808315	70.99	ng/uL	99
39) Hexachlorocyclopentadiene	8.42	237	174270	47.67	ug/kg	100
40) 1,2,4,5-Tetrachlorobenzene	8.43	216	318529	47.37	ug/kg	99
41) 2,4,6-Trichlorophenol	8.53	196	197898	54.87	ug/kg	100
42) 2,4,5-Trichlorophenol	8.58	196	201852	53.70	ug/kg	95

(#) = qualifier out of range (m) = manual integration
AS07395.D 0824ABN.M Fri Oct 12 15:11:49 2018 SS Page 1

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\A\DATA\20181011\AS07395.D Vial: 3
Acq On : 11 Oct 2018 14:28 Operator: GCH
Sample : SEQ-CCV Inst : GCMS-A
Misc : Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 12 10:55 2018 Quant Results File: 0824ABN.RES

Quant Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Fri Oct 12 10:53:36 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270A

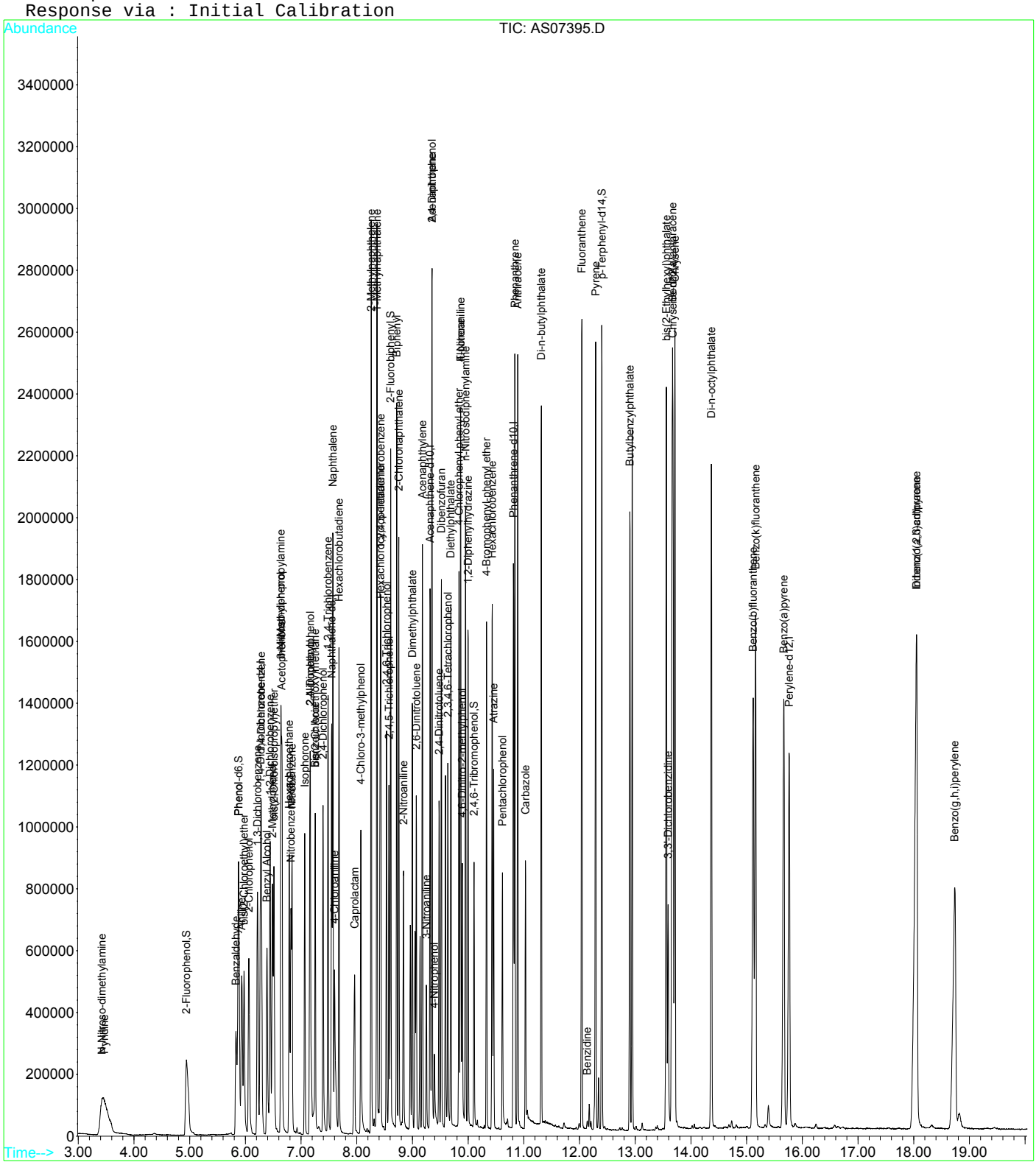
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) Biphenyl	8.72	154	688187	45.53	ug/kg	99
45) 2-Chloronaphthalene	8.76	162	579935	46.94	ug/kg	99
46) 2-Nitroaniline	8.84	138	180547	53.68	ug/kg	99
47) Dimethylphthalate	9.00	163	616757	46.55	ug/kg	99
48) Acenaphthylene	9.18	152	852949	46.04	ug/kg	100
49) 2,6-Dinitrotoluene	9.07	165	151928	53.45	ug/kg	97
50) 3-Nitroaniline	9.25	138	81868	48.75	ug/kg	98
51) Acenaphthene	9.35	153	573281	46.23	ug/kg	99
52) 2,4-Dinitrophenol	9.35	184	71534	67.53	ug/kg	22
53) Dibenzofuran	9.52	168	760090	46.39	ug/kg	99
54) 4-Nitrophenol	9.39	65	48490m	41.78	ug/kg	
55) 2,4-Dinitrotoluene	9.48	165	208135	57.70	ug/kg	95
56) 2,3,4,6-Tetrachlorophenol	9.63	232	170911m	48.13	ug/kg	
57) Fluorene	9.87	166	634360	45.66	ug/kg	99
58) Diethylphthalate	9.69	149	614439	47.44	ug/kg	99
59) 4-Chlorophenyl phenyl ethe	9.84	204	336541	47.97	ug/kg	98
60) 4-Nitroaniline	9.86	138	67831	41.38	ug/kg	89
62) 4,6-Dinitro-2-methylphenol	9.89	198	131571	70.36	ug/kg	94
63) n-Nitrosodiphenylamine	9.95	169	511968	44.65	ug/kg	99
64) 1,2-Diphenylhydrazine	10.00	77	525766	46.09	ug/kg	96
66) 4-Bromophenyl-phenyl ether	10.33	248	219966	47.93	ug/kg	97
67) Hexachlorobenzene	10.43	284	234108	47.29	ug/kg	100
68) Atrazine	10.46	200	134685	43.54	ug/kg	97
69) Pentachlorophenol	10.61	266	108770	41.00	ug/kg	98
70) Phenanthrene	10.84	178	915634	44.98	ug/kg	99
71) Anthracene	10.89	178	941408	46.02	ug/kg	99
72) Carbazole	11.03	167	595552m	54.06	ug/kg	
73) Di-n-butylphthalate	11.31	149	1092657	47.55	ug/kg	99
74) Fluoranthene	12.04	202	1141024	46.12	ug/kg	99
76) Benzidine	12.14	184	17383m	15.49	ug/kg	
77) Pyrene	12.29	202	1164220	46.37	ug/kg	99
79) Butylbenzylphthalate	12.90	149	526153	49.93	ug/kg	99
80) Benzo(a)anthracene	13.66	228	1177063	46.08	ug/kg	99
81) 3,3'-Dichlorobenzidine	13.59	252	219616	53.90	ug/kg	99
82) Chrysene	13.71	228	1076375	46.25	ug/kg	99
83) bis(2-Ethylhexyl)phthalate	13.56	149	750332	49.43	ug/kg	98
85) Di-n-octylphthalate	14.37	149	1316382	50.68	ug/kg	98
86) Benzo(b)fluoranthene	15.12	252	1081228	47.04	ug/kg	98
87) Benzo(k)fluoranthene	15.16	252	1022916	45.02	ug/kg	97
88) Benzo(a)pyrene	15.67	252	1081317	46.41	ug/kg	99
89) Indeno(1,2,3-cd)pyrene	18.04	276	1259385	49.52	ug/kg#	76
90) Dibenzo(a,h)anthracene	18.05	278	1112454	50.34	ug/kg	99
91) Benzo(g,h,i)perylene	18.74	276	1043066	49.75	ug/kg	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\HPCHEM\A\DATA\20181011\AS07395.D Vial: 3
Acq On : 11 Oct 2018 14:28 Operator: GCH
Sample : SEQ-CCV Inst : GCMS-A
Misc : Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 12 10:55 2018 Quant Results File: 0824ABN.RES

Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Oct 02 11:16:59 2018
Response via : Initial Calibration



CALIBRATION VERIFICATION SUMMARY

SW 846 8270D

CCV ID: S8J1213-CCV1 **Analyzed:** 10/11/18 12:41

Analyte	Response Factor	Expected Result	Result	% Drift	Limit(s)
1-Methylnaphthalene	0.6170175	75.20	66.61	11	30
2,3,4,6-Tetrachlorophenol	0.2210259	50.00	44.46	11	30
2,4,5-Trichlorophenol	0.3713432	50.00	48.91	2	30
2,4,6-Trichlorophenol	0.3678283	50.00	47.71	5	20 (CCC)
2,4-Dichlorophenol	0.2786784	50.00	47.27	5	20 (CCC)
2,4-Dimethylphenol	0.3406714	50.00	51.82	4	30
2,4-Dinitrophenol	0.1517089	50.00	44.58	11	0.05 (SPCC)
2,4-Dinitrotoluene	0.4696406	50.00	51.84	4	30
2,6-Dinitrotoluene	0.3549094	50.00	49.82	0	30
2-Chloronaphthalene	1.262154	50.00	46.88	6	30
2-Chlorophenol	1.414604	50.00	46.59	7	30
2-Methylnaphthalene	0.6290265	75.20	66.40	12	30
2-Methylphenol	1.25947	50.00	48.76	2	30
2-Nitroaniline	0.4579944	50.00	50.29	1	30
2-Nitrophenol	0.193405	50.00	49.02	2	20 (CCC)
3,3'-Dichlorobenzidine	0.3423161	50.00	39.98	20	30
3+4-Methylphenol	1.297142	50.00	46.34	7	30
3-Nitroaniline	0.3855607	50.00	48.12	4	30
4,6-Dinitro-2-methylphenol	0.1204901	50.00	42.28	15	30
4-Bromophenyl-phenyl ether	0.1749858	50.00	45.63	9	30
4-Chloro-3-methylphenol	0.3176657	50.00	51.18	2	20 (CCC)
4-Chloroaniline	0.430819	50.00	48.58	3	30
4-Chlorophenyl phenyl ether	0.5674663	50.00	42.80	14	30
4-Nitroaniline	0.3513361	50.00	46.45	7	30
4-Nitrophenol	0.2322004	50.00	50.71	1	0.05 (SPCC)
Acenaphthene	1.279867	50.00	47.34	5	20 (CCC)
Acenaphthylene	1.944157	50.00	45.43	9	30
Acetophenone	1.78983	50.00	47.55	5	30
Anthracene	1.043079	50.00	44.93	10	30
Atrazine	0.1509149	50.00	42.26	15	30
Benzaldehyde	0.7565848	50.00	40.70	19	30
Benzo(a)anthracene	1.178373	50.00	45.22	10	30
Benzo(a)pyrene	1.034226	50.00	45.92	8	20 (CCC)
Benzo(b)fluoranthene	0.9878955	50.00	44.73	11	30
Benzo(g,h,i)perylene	0.9405901	50.00	45.13	10	30
Benzo(k)fluoranthene	1.064207	50.00	47.39	5	30
Biphenyl	1.651505	50.00	48.93	2	30
bis(2-chloroethoxy)methane	0.4024938	50.00	48.84	2	30
bis(2-chloroethyl)ether	1.332693	50.00	46.20	8	30
bis(2-chloroisopropyl)ether	2.183828	50.00	44.80	10	30
bis(2-ethylhexyl)phthalate	1.12361	50.00	52.50	5	30
Butylbenzylphthalate	0.8560527	50.00	52.97	6	30
Caprolactam	0.1196928	50.00	47.35	5	30
Carbazole	1.049554	50.00	46.66	7	30
Chrysene	1.09854	50.00	44.12	12	30
Dibenzo(a,h)anthracene	0.9746596	50.00	45.57	9	30
Dibenzofuran	1.642075	50.00	45.58	9	30

F-VII

CALIBRATION VERIFICATION SUMMARY

SW 846 8270D

CCV ID: S8J1213-CCV1 **Analyzed:** 10/11/18 12:41

Analyte	Response Factor	Expected Result	Result	% Drift	Limit(s)
Diethylphthalate	1.402559	50.00	49.27	1	30
Dimethylphthalate	1.366886	50.00	48.14	4	30
Di-n-butylphthalate	1.288366	50.00	47.03	6	30
Di-n-octylphthalate	1.912487	50.00	54.01	8	20 (CCC)
Fluoranthene	1.067539	50.00	44.25	12	20 (CCC)
Fluorene	1.316505	50.00	43.87	12	30
Hexachlorobenzene	0.1800945	50.00	40.75	19	30
Hexachlorobutadiene	0.1321879	50.00	43.52	13	20 (CCC)
Hexachlorocyclopentadiene	0.2175306	50.00	44.30	11	0.05 (SPCC)
Hexachloroethane	0.6155156	50.00	46.51	7	30
Indeno(1,2,3-cd)pyrene	1.120793	50.00	45.27	9	30
Isophorone	0.5648747	50.00	48.78	2	30
Naphthalene	1.036528	50.00	45.92	8	30
Nitrobenzene	0.3979684	50.00	51.34	3	30
n-Nitroso-dimethylamine	0.7850718	50.00	54.45	9	30
n-Nitroso-di-n-propylamine	0.9614274	50.00	48.34	3	0.05 (SPCC)
n-Nitrosodiphenylamine	0.6527311	50.00	47.23	6	20 (CCC)
Pentachlorophenol	6.390914E-02	50.00	40.65	19	20 (CCC)
Phenanthrene	1.051483	50.00	45.85	8	30
Phenol	1.729527	50.00	49.46	1	20 (CCC)
Pyrene	1.483093	50.00	48.38	3	30

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\D\DATA\20181011\DS18768.D Vial: 3
Acq On : 11 Oct 2018 12:41 Operator: GCH
Sample : SEQ-CCV@X50 Inst : GCMS-D
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:27 2018 Quant Results File: 0802ABN.RES

Quant Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Fri Oct 12 10:26:51 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.54	152	199193	40.00	ug/kg	0.00
22) Naphthalene-d8	6.82	136	754665	40.00	ug/kg	0.00
39) Acenaphthene-d10	8.58	164	369629	40.00	ug/kg	0.00
62) Phenanthrene-d10	10.05	188	661777	40.00	ug/kg	0.00
76) Chrysene-d12	12.76	240	480148	40.00	ug/kg	0.00
85) Perylene-d12	14.45	264	499614	40.00	ug/kg	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.18	112	331696	48.58	ug/kg	-0.03
Spiked Amount 100.000	Range 15 - 62		Recovery = 48.58%			
8) Phenol-d6	5.17	99	428944	49.47	ug/kg	-0.01
Spiked Amount 100.000	Range 15 - 45		Recovery = 49.47%#			
23) Nitrobenzene-d5	6.10	82	365749	52.08	ug/kg	-0.06
Spiked Amount 50.000	Range 32 - 101		Recovery = 104.16%#			
44) 2-Fluorobiphenyl	7.89	172	628427	46.05	ug/kg	-0.03
Spiked Amount 50.000	Range 36 - 103		Recovery = 92.10%			
66) 2,4,6-Tribromophenol	9.36	330	61943	44.29	ug/kg	-0.04
Spiked Amount 100.000	Range 28 - 167		Recovery = 44.29%			
79) p-Terphenyl-d14	11.62	244	555171	50.59	ug/kg	0.05
Spiked Amount 50.000	Range 44 - 117		Recovery = 101.18%			
Target Compounds						Qvalue
3) N-nitrosodimethylamine	2.32	42	195476	54.45	ng/uL	95
4) Pyridine	2.38	79	427564	48.40	ng/uL	100
6) Benzaldehyde	5.09	77	188383	40.70	ug/kg	99
7) Aniline	5.20	93	490041	47.26	ug/kg	97
9) Phenol	5.18	94	430637	49.46	ug/kg	95
10) bis(2-Chloroethyl)ether	5.27	93	331829	46.20	ug/kg	96
11) 2-Chlorophenol	5.33	128	352224	46.59	ug/kg	97
12) 1,3-Dichlorobenzene	5.49	146	382027	45.99	ug/kg	97
13) 1,4-Dichlorobenzene	5.56	146	356141	44.70	ug/kg	98
14) Benzyl Alcohol	5.68	108	239976	53.39	ug/kg	97
15) 1,2-Dichlorobenzene	5.72	146	357907	44.71	ug/kg	99
16) 2-Methylphenol	5.79	108	313597	48.76	ug/kg	97
17) bis(2-Chloroisopropyl)ethe	5.81	45	543754	44.80	ug/kg	80
18) Acetophenone	5.94	105	445652	47.55	ug/kg	93
19) 3+4-Methylphenol	5.94	108	322977	46.34	ug/kg	94
20) n-Nitroso-di-n-propylamine	5.94	70	239387	48.34	ug/kg	93
21) Hexachloroethane	6.06	117	153258	46.51	ug/kg	98
24) Nitrobenzene	6.12	77	375416	51.34	ug/kg	95
25) Isophorone	6.35	82	532864	48.78	ug/kg	97
26) 2-Nitrophenol	6.44	139	182445	49.02	ug/kg	95
27) 2,4-Dimethylphenol	6.48	107	321366	51.82	ug/kg	96
28) bis(2-Chloroethoxy)methane	6.56	93	379685	48.84	ug/kg	98
29) 2,4-Dichlorophenol	6.68	162	262886	47.27	ug/kg	100
30) Benzoic Acid	6.47	105	18281m	26.66	ug/kg	
31) 1,2,4-Trichlorobenzene	6.77	180	281093	44.02	ug/kg	95
32) Naphthalene	6.85	128	977789	45.92	ug/kg	99
33) 4-Chloroaniline	6.89	127	406405	48.58	ug/kg	98
34) Hexachlorobutadiene	6.97	225	124697	43.52	ug/kg	96
35) Caprolactam	7.22	113	112910	47.35	ug/kg	90
36) 4-Chloro-3-methylphenol	7.37	107	299664	51.18	ug/kg	92
37) 2-Methylnaphthalene	7.54	142	892444	66.40	ug/kg	98
38) 1-Methylnaphthalene	7.63	142	875406	66.61	ng/uL	99
40) Hexachlorocyclopentadiene	7.70	237	100507	44.30	ug/kg	98
41) 1,2,4,5-Tetrachlorobenzene	7.71	216	226743	44.22	ug/kg	100
42) 2,4,6-Trichlorophenol	7.82	196	169950m	47.71	ug/kg	
43) 2,4,5-Trichlorophenol	7.85	196	171574	48.91	ug/kg	94

(#) = qualifier out of range (m) = manual integration
DS18768.D 0802ABN.M Tue Oct 16 12:43:47 2018 SS Page 1

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\D\DATA\20181011\DS18768.D Vial: 3
Acq On : 11 Oct 2018 12:41 Operator: GCH
Sample : SEQ-CCV@X50 Inst : GCMS-D
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:27 2018 Quant Results File: 0802ABN.RES

Quant Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Fri Oct 12 10:26:51 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270B

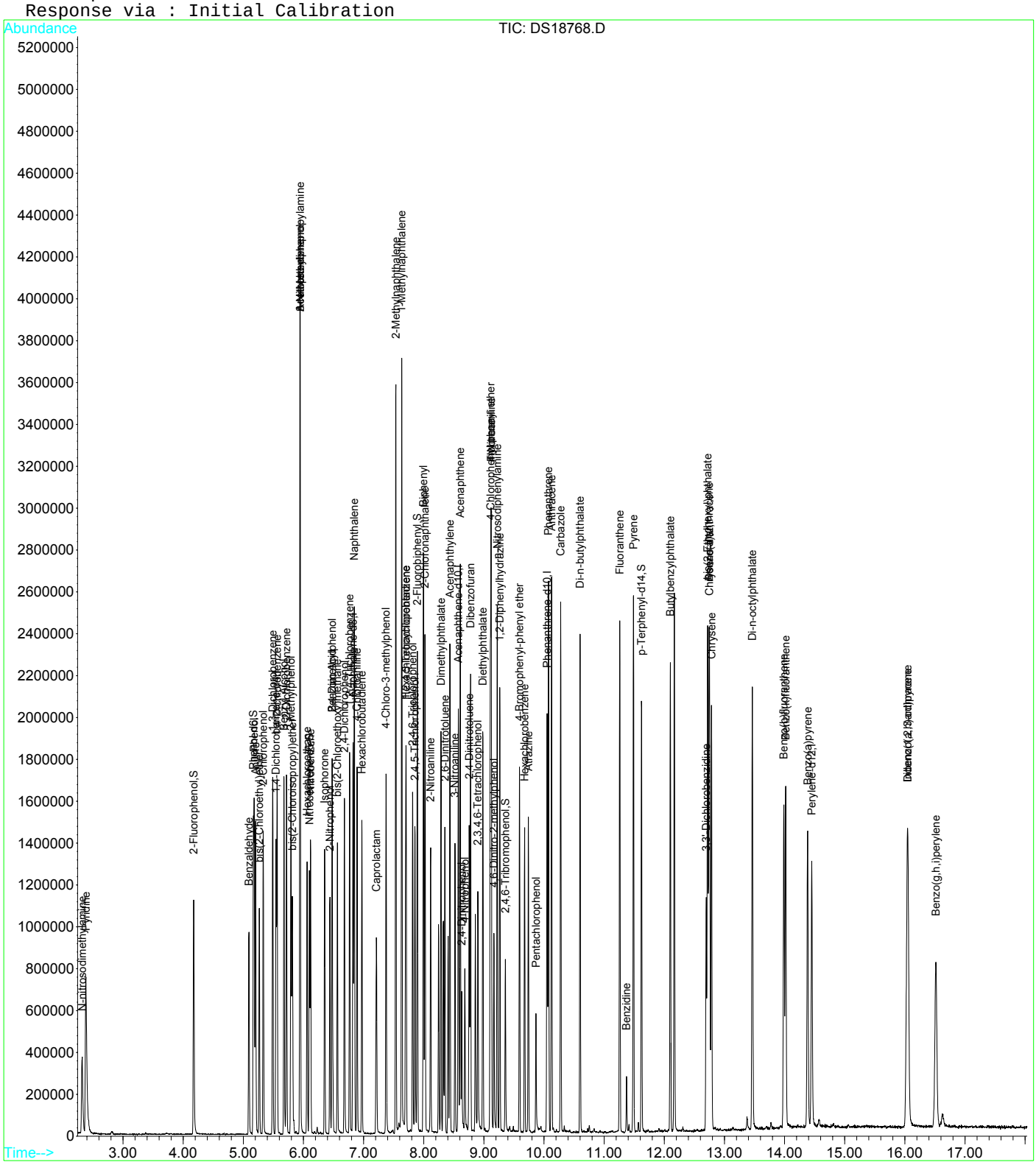
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45)	Biphenyl	7.99	154	763055	48.93	ug/kg	99
46)	2-Chloronaphthalene	8.02	162	583161	46.88	ug/kg	97
47)	2-Nitroaniline	8.12	138	211610	50.29	ug/kg	93
48)	Dimethylphthalate	8.29	163	631551	48.14	ug/kg	95
49)	Acenaphthylene	8.44	152	898271	45.42	ug/kg	99
50)	2,6-Dinitrotoluene	8.35	165	163981	49.82	ug/kg	95
51)	3-Nitroaniline	8.52	138	178143	48.12	ug/kg	90
52)	Acenaphthene	8.61	153	591345	47.34	ug/kg	96
53)	2,4-Dinitrophenol	8.63	184	70095	44.58	ug/kg	63
54)	Dibenzofuran	8.78	168	758698	45.58	ug/kg	98
55)	4-Nitrophenol	8.68	65	107285	50.71	ug/kg	97
56)	2,4-Dinitrotoluene	8.76	165	216991	51.84	ug/kg	90
57)	2,3,4,6-Tetrachlorophenol	8.90	232	102122	44.45	ug/kg	92
58)	Fluorene	9.12	166	608273	43.87	ug/kg	99
59)	Diethylphthalate	8.98	149	648033	49.27	ug/kg	98
60)	4-Chlorophenyl phenyl ethe	9.11	204	262190	42.80	ug/kg	92
61)	4-Nitroaniline	9.13	138	162330	46.45	ug/kg	88
63)	4,6-Dinitro-2-methylphenol	9.17	198	99672	42.28	ug/kg	89
64)	n-Nitrosodiphenylamine	9.22	169	539953	47.23	ug/kg	99
65)	1,2-Diphenylhydrazine	9.26	77	739137	51.02	ug/kg	94
67)	4-Bromophenyl-phenyl ether	9.59	248	144752	45.63	ug/kg	91
68)	Hexachlorobenzene	9.68	284	148978	40.75	ug/kg	99
69)	Atrazine	9.74	200	124840	42.26	ug/kg	96
70)	Pentachlorophenol	9.87	266	52867m	40.65	ug/kg	
71)	Phenanthrene	10.07	178	869809	45.85	ug/kg	100
72)	Anthracene	10.13	178	862857	44.93	ug/kg	99
73)	Carbazole	10.28	167	868213	46.66	ug/kg	97
74)	Di-n-butylphthalate	10.60	149	1065764	47.03	ug/kg	98
75)	Fluoranthene	11.26	202	883091	44.25	ug/kg	98
77)	Benzidine	11.37	184	88261	9.21	ug/kg	98
78)	Pyrene	11.49	202	890130	48.38	ug/kg	98
80)	Butylbenzylphthalate	12.10	149	513790	52.97	ug/kg	97
81)	Benzo(a)anthracene	12.74	228	707242	45.22	ug/kg	100
82)	3,3'-Dichlorobenzidine	12.70	252	205453	39.98	ug/kg	99
83)	Chrysene	12.79	228	659327	44.12	ug/kg	98
84)	bis(2-Ethylhexyl)phthalate	12.72	149	674374	52.50	ug/kg	98
86)	Di-n-octylphthalate	13.46	149	1147846	54.01	ug/kg	97
87)	Benzo(b)fluoranthene	13.99	252	616958	44.73	ug/kg	98
88)	Benzo(k)fluoranthene	14.02	252	664616m	47.39	ug/kg	
89)	Benzo(a)pyrene	14.38	252	645892	45.92	ug/kg	99
90)	Indeno(1,2,3-cd)pyrene	16.04	276	699955	45.27	ug/kg	98
91)	Dibenzo(a,h)anthracene	16.05	278	608692	45.57	ug/kg	97
92)	Benzo(g,h,i)perylene	16.51	276	587415	45.13	ug/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\HPCHEM\D\DATA\20181011\DS18768.D Vial: 3
Acq On : 11 Oct 2018 12:41 Operator: GCH
Sample : SEQ-CCV@X50 Inst : GCMS-D
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:27 2018 Quant Results File: 0802ABN.RES

Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Mon Oct 15 10:25:43 2018
Response via : Initial Calibration



INTERNAL STANDARD REPORT

Analysis Class: SEMIVOLATILES **Analysis Batch:** S8J1212

		DCB-D4		NAP-D8		ACE-D10		PHE-D10		CHR-D12		PER-D12	
Lab Number	File ID	Area	Rt	Area	Rt	Area	Rt	Area	Rt	Area	Rt	Area	Rt
8100452-10	AS07396.D	137601	6.27	525512	7.54	279789	9.31	528787	10.81	578999	13.67	603659	15.75
8100452-11	AS07397.D	144157	6.27	544435	7.54	292101	9.31	558645	10.81	606407	13.67	627427	15.75
8100452-12	AS07398.D	160040	6.26	621406	7.54	331206	9.31	635462	10.81	691875	13.67	723702	15.76
8100452-13	AS07399.D	144929	6.27	551744	7.54	296526	9.31	563939	10.81	621689	13.67	638170	15.75
8100452-14	AS07400.D	139395	6.27	542847	7.54	286684	9.31	546847	10.81	598306	13.67	626870	15.75
8100452-09	AS07401.D	148181	6.27	560064	7.54	296470	9.31	568102	10.81	628942	13.67	651720	15.76

Reference Std ID
S8J1212-CCV1

	Internal Standard	Ref Area	Area Limit	Ref RT	RT Limit
DCB-D4	1,4-Dichlorobenzene-d4	171909	85,954.50 - 343,818.00	6.27	0.50
NAP-D8	Naphthalene-d8	668028	334,014.00 - 1,336,056.00	7.55	0.50
ACE-D10	Acenaphthene-d10	361834	180,917.00 - 723,668.00	9.32	0.50
PHE-D10	Phenanthrene-d10	711170	355,585.00 - 1,422,340.00	10.81	0.50
CHR-D12	Chrysene-d12	779517	389,758.50 - 1,559,034.00	13.68	0.50
PER-D12	Perylene-d12	840849	420,424.50 - 1,681,698.00	15.76	0.50

* - Outside of QC Limits

F-VIII

INTERNAL STANDARD REPORT

Analysis Class: SEMIVOLATILES **Analysis Batch:** S8J1213

		DCB-D4		NAP-D8		ACE-D10		PHE-D10		CHR-D12		PER-D12	
Lab Number	File ID	Area	Rt	Area	Rt	Area	Rt	Area	Rt	Area	Rt	Area	Rt
B8J1101-BLK1	DS18769.D	169814	5.55	643038	6.83	307744	8.58	545070	10.05	412629	12.75	408173	14.45
8100452-01	DS18771.D	162070	5.55	608163	6.83	299587	8.57	519499	10.05	391750	12.76	379160	14.45
8100452-02	DS18772.D	182818	5.55	695780	6.82	358130	8.57	600167	10.05	442655	12.75	426788	14.45
8100452-03	DS18773.D	167877	5.55	627978	6.82	308607	8.57	531137	10.05	397045	12.75	381767	14.45
8100452-04	DS18774.D	162627	5.55	625040	6.82	296500	8.57	521121	10.05	383151	12.75	361524	14.45
8100452-05	DS18775.D	159249	5.54	609200	6.83	307467	8.57	538317	10.05	389183	12.75	380947	14.45
8100452-06	DS18776.D	159499	5.55	607328	6.83	297278	8.57	519141	10.05	384901	12.75	374104	14.45
8100452-07	DS18777.D	174325	5.55	649764	6.83	323492	8.57	554925	10.05	419384	12.75	388875	14.45
8100452-08	DS18778.D	160052	5.54	608878	6.83	294400	8.57	519881	10.05	381925	12.76	375896	14.45

Reference Std ID
S8J1213-CCV1

	Internal Standard	Ref Area	Area Limit	Ref RT	RT Limit
DCB-D4	1,4-Dichlorobenzene-d4	199193	99,596.50 - 398,386.00	5.54	0.50
NAP-D8	Naphthalene-d8	754665	377,332.50 - 1,509,330.00	6.82	0.50
ACE-D10	Acenaphthene-d10	369629	184,814.50 - 739,258.00	8.58	0.50
PHE-D10	Phenanthrene-d10	661777	330,888.50 - 1,323,554.00	10.05	0.50
CHR-D12	Chrysene-d12	480148	240,074.00 - 960,296.00	12.76	0.50
PER-D12	Perylene-d12	499614	249,807.00 - 999,228.00	14.45	0.50

* - Outside of QC Limits

F-VIII

VOLATILES

Peak Environmental

Work Order: 8100452

Project: Ridgewood

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client:	**Peak Environmental**	**Project:**	**Ridgewood**
Client Sample ID:	**Blank**	**Work Order:**	**8100452**
Lab Sample ID:	**B8J1111-BLK1**		

Init/Final Vol:	5 g / 5 mL	Prep Date:	10/10/2018 15:02	File ID:	3V33994.D
		Prep Batch:	B8J1111	Analyzed:	10/10/2018 15:02
		Matrix:	Soil	Sequence:	S8J1704
		Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg wet)	MDL	RL	Q
71-55-6	1,1,1-Trichloroethane	ND	0.000292	0.00200	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.000276	0.00200	U
76-13-1	1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	0.000856	0.00200	U
79-00-5	1,1,2-Trichloroethane	ND	0.000337	0.00200	U
75-34-3	1,1-Dichloroethane	ND	0.000292	0.00200	U
75-35-4	1,1-Dichloroethene	ND	0.000370	0.00200	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.000432	0.00200	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.000533	0.00200	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.000276	0.00200	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.000488	0.00200	U
106-93-4	1,2-Dibromoethane	ND	0.000252	0.00200	U
95-50-1	1,2-Dichlorobenzene	ND	0.000353	0.00200	U
107-06-2	1,2-Dichloroethane	ND	0.000282	0.00200	U
78-87-5	1,2-Dichloropropane	ND	0.000328	0.00200	U
541-73-1	1,3-Dichlorobenzene	ND	0.000147	0.00200	U
106-46-7	1,4-Dichlorobenzene	ND	0.000288	0.00200	U
78-93-3	2-Butanone	ND	0.000326	0.00500	U
591-78-6	2-Hexanone	ND	0.000187	0.00200	U
108-10-1	4-Methyl-2-pentanone	ND	0.000250	0.00200	U
67-64-1	Acetone	ND	0.000606	0.00500	U
71-43-2	Benzene	ND	0.000182	0.00200	U
74-97-5	Bromochloromethane	ND	0.000369	0.00200	U
75-27-4	Bromodichloromethane	ND	0.000251	0.00200	U
75-25-2	Bromoform	ND	0.000351	0.00200	U
74-83-9	Bromomethane	ND	0.000577	0.00200	U
75-15-0	Carbon disulfide	ND	0.000287	0.00200	U
56-23-5	Carbon Tetrachloride	ND	0.000301	0.00200	U
108-90-7	Chlorobenzene	ND	0.000290	0.00200	U
124-48-1	Chlorodibromomethane	ND	0.000246	0.00200	U
75-00-3	Chloroethane	ND	0.000341	0.00200	U
67-66-3	Chloroform	ND	0.000336	0.00200	U

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ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client:	**Peak Environmental**	**Project:**	**Ridgewood**
Client Sample ID:	**Blank**	**Work Order:**	**8100452**
Lab Sample ID:	**B8J1111-BLK1**		

Init/Final Vol:	5 g / 5 mL	Prep Date:	10/10/2018 15:02	File ID:	3V33994.D
		Prep Batch:	B8J1111	Analyzed:	10/10/2018 15:02
		Matrix:	Soil	Sequence:	S8J1704
		Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg wet)	MDL	RL	Q
74-87-3	Chloromethane	ND	0.000770	0.00200	U
156-59-2	cis-1,2-Dichloroethene	ND	0.0000967	0.00200	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.000253	0.00200	U
110-82-7	Cyclohexane	ND	0.000443	0.00200	U
75-71-8	Dichlorodifluoromethane	ND	0.000675	0.00200	U
100-41-4	EthylBenzene	ND	0.000271	0.00200	U
98-82-8	Isopropylbenzene	ND	0.000314	0.00200	U
179601-23-1	m+p-Xylenes	ND	0.000505	0.00400	U
79-20-9	Methyl Acetate	ND	0.000265	0.00200	U
1634-04-4	Methyl tert-Butyl Ether	ND	0.000338	0.00200	U
108-87-2	Methylcyclohexane	ND	0.000322	0.00200	U
75-09-2	Methylene Chloride	ND	0.000601	0.00200	U
95-47-6	o-Xylene	ND	0.000257	0.00200	U
100-42-5	Styrene	ND	0.000286	0.00200	U
75-65-0	tert-Butyl alcohol	ND	0.00420	0.0200	U
127-18-4	Tetrachloroethene	ND	0.000198	0.00200	U
108-88-3	Toluene	ND	0.000161	0.00200	U
1330-20-7	Total Xylenes	ND	0.000257	0.00200	U
156-60-5	trans-1,2-Dichloroethene	ND	0.000271	0.00200	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.000382	0.00200	U
79-01-6	Trichloroethene	ND	0.000294	0.00200	U
75-69-4	Trichlorofluoromethane	ND	0.000230	0.00200	U
75-01-4	Vinyl chloride	ND	0.000380	0.00200	U

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ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client:	**Peak Environmental**	**Project:**	**Ridgewood**
Client Sample ID:	**Blank**	**Work Order:**	**8100452**
Lab Sample ID:	**B8J1111-BLK1**		

		Prep Date:	10/10/2018 15:02	File ID:	3V33994.D
Init/Final Vol:	5 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/2018 15:02
		Matrix:	Soil	Sequence:	S8J1704
		Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg wet)	RT	Q
	Sum of Tentatively Identified Compounds	0.000		

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Quantitation Report (QT/LSC Reviewed)

Data File : G:\HPCHEM\3\DATA\10102018\3V33994.D Vial: 45
Acq On : 10 Oct 2018 15:02 Operator: omd
Sample : B8J1111-BLK1 Inst : GCMS-3
Misc : soil re Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:24 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.49	168	145721	50.00	ug/kg	0.03
33) 1,4-Difluorobenzene	8.91	114	275232	50.00	ug/kg	0.02
52) Chlorobenzene-d5	14.07	82	144968	50.00	ug/kg	0.02
74) 1,4-Dichlorobenzene-d4	18.06	152	125977	50.00	ug/kg	0.00
System Monitoring Compounds						
26) Dibromofluoromethane	7.37	113	99990	56.41	ug/kg	0.03
Spiked Amount 50.000	Range 59 - 147		Recovery = 112.82%			
43) Toluene-d8	11.54	98	325733	52.62	ug/kg	0.02
Spiked Amount 50.000	Range 66 - 134		Recovery = 105.24%			
62) 4-Bromofluorobenzene	16.11	95	145973	59.76	ug/kg	0.02
Spiked Amount 50.000	Range 64 - 125		Recovery = 119.52%			

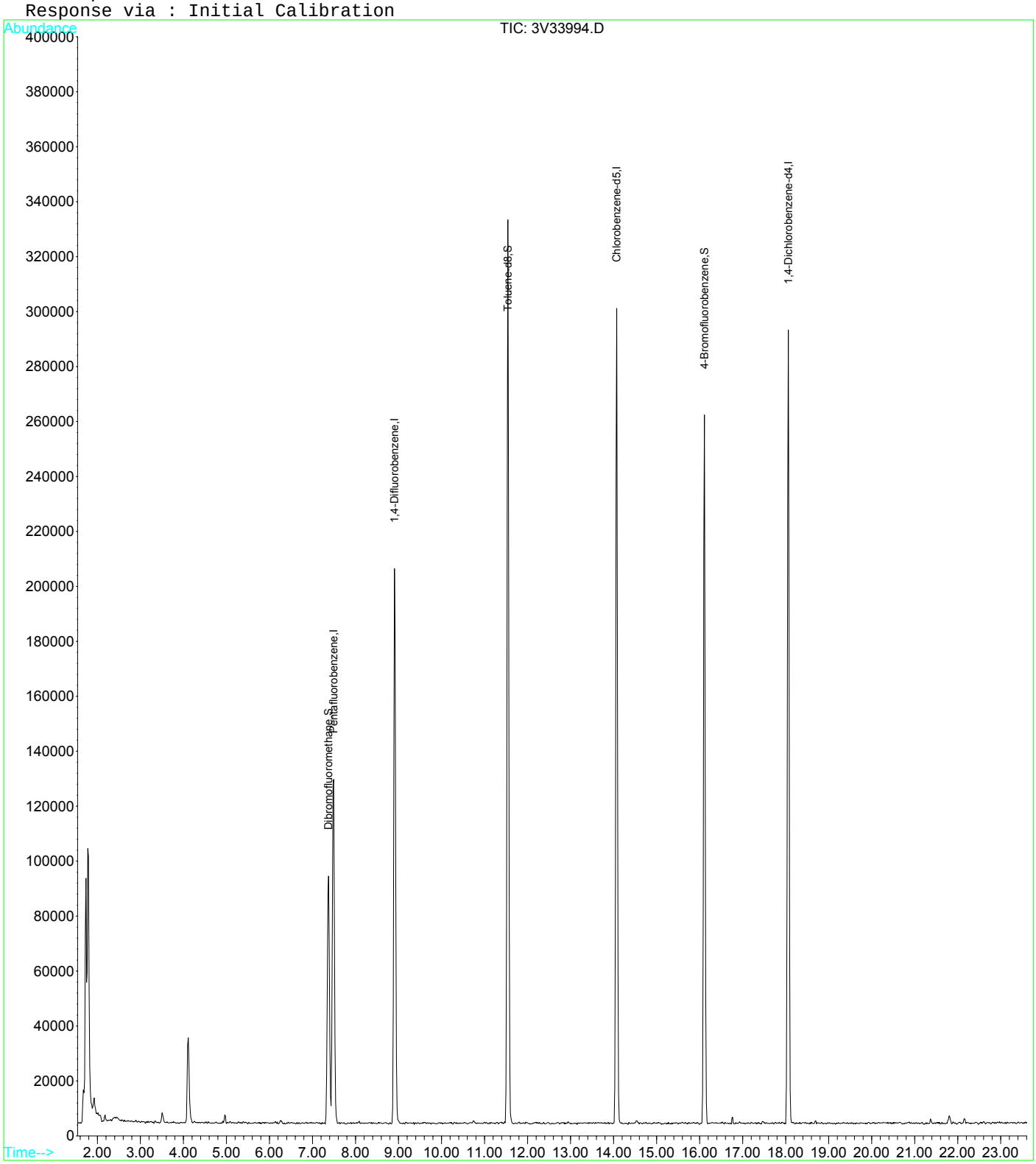
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
3V33994.D 0717WC3.M Wed Oct 17 12:06:31 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\3\DATA\10102018\3V33994.D Vial: 45
Acq On : 10 Oct 2018 15:02 Operator: omd
Sample : B8J1111-BLK1 Inst : GCMS-3
Misc : soil re Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:24 2018 Quant Results File: 0717WC3.RES

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration



3V33994.D 0717WC3.M Wed Oct 17 12:06:31 2018 SS Page 2

15 15.1.

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client:	**Peak Environmental**	**Project:**	**Ridgewood**
Client Sample ID:	**Blank**	**Work Order:**	**8100452**
Lab Sample ID:	**B8J1141-BLK1**		

Init/Final Vol:	5 g / 5 mL	Prep Date:	10/11/2018 13:05	File ID:	3V34019.D
		Prep Batch:	B8J1141	Analyzed:	10/11/2018 13:05
		Matrix:	Soil	Sequence:	S8J1706
		Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg wet)	MDL	RL	Q
71-55-6	1,1,1-Trichloroethane	ND	0.000292	0.00200	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.000276	0.00200	U
76-13-1	1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	0.000856	0.00200	U
79-00-5	1,1,2-Trichloroethane	ND	0.000337	0.00200	U
75-34-3	1,1-Dichloroethane	ND	0.000292	0.00200	U
75-35-4	1,1-Dichloroethene	ND	0.000370	0.00200	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.000432	0.00200	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.000533	0.00200	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.000276	0.00200	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.000488	0.00200	U
106-93-4	1,2-Dibromoethane	ND	0.000252	0.00200	U
95-50-1	1,2-Dichlorobenzene	ND	0.000353	0.00200	U
107-06-2	1,2-Dichloroethane	ND	0.000282	0.00200	U
78-87-5	1,2-Dichloropropane	ND	0.000328	0.00200	U
541-73-1	1,3-Dichlorobenzene	ND	0.000147	0.00200	U
106-46-7	1,4-Dichlorobenzene	ND	0.000288	0.00200	U
78-93-3	2-Butanone	ND	0.000326	0.00500	U
591-78-6	2-Hexanone	ND	0.000187	0.00200	U
108-10-1	4-Methyl-2-pentanone	ND	0.000250	0.00200	U
67-64-1	Acetone	ND	0.000606	0.00500	U
71-43-2	Benzene	ND	0.000182	0.00200	U
74-97-5	Bromochloromethane	ND	0.000369	0.00200	U
75-27-4	Bromodichloromethane	ND	0.000251	0.00200	U
75-25-2	Bromoform	ND	0.000351	0.00200	U
74-83-9	Bromomethane	ND	0.000577	0.00200	U
75-15-0	Carbon disulfide	ND	0.000287	0.00200	U
56-23-5	Carbon Tetrachloride	ND	0.000301	0.00200	U
108-90-7	Chlorobenzene	ND	0.000290	0.00200	U
124-48-1	Chlorodibromomethane	ND	0.000246	0.00200	U
75-00-3	Chloroethane	ND	0.000341	0.00200	U
67-66-3	Chloroform	ND	0.000336	0.00200	U

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ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client:	**Peak Environmental**	**Project:**	**Ridgewood**
Client Sample ID:	**Blank**	**Work Order:**	**8100452**
Lab Sample ID:	**B8J1141-BLK1**		

Init/Final Vol:	5 g / 5 mL	Prep Date:	10/11/2018 13:05	File ID:	3V34019.D
		Prep Batch:	B8J1141	Analyzed:	10/11/2018 13:05
		Matrix:	Soil	Sequence:	S8J1706
		Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg wet)	MDL	RL	Q
74-87-3	Chloromethane	ND	0.000770	0.00200	U
156-59-2	cis-1,2-Dichloroethene	ND	0.0000967	0.00200	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.000253	0.00200	U
110-82-7	Cyclohexane	ND	0.000443	0.00200	U
75-71-8	Dichlorodifluoromethane	ND	0.000675	0.00200	U
100-41-4	EthylBenzene	ND	0.000271	0.00200	U
98-82-8	Isopropylbenzene	ND	0.000314	0.00200	U
179601-23-1	m+p-Xylenes	ND	0.000505	0.00400	U
79-20-9	Methyl Acetate	ND	0.000265	0.00200	U
1634-04-4	Methyl tert-Butyl Ether	ND	0.000338	0.00200	U
108-87-2	Methylcyclohexane	ND	0.000322	0.00200	U
75-09-2	Methylene Chloride	ND	0.000601	0.00200	U
95-47-6	o-Xylene	ND	0.000257	0.00200	U
100-42-5	Styrene	ND	0.000286	0.00200	U
75-65-0	tert-Butyl alcohol	ND	0.00420	0.0200	U
127-18-4	Tetrachloroethene	ND	0.000198	0.00200	U
108-88-3	Toluene	ND	0.000161	0.00200	U
1330-20-7	Total Xylenes	ND	0.000257	0.00200	U
156-60-5	trans-1,2-Dichloroethene	ND	0.000271	0.00200	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.000382	0.00200	U
79-01-6	Trichloroethene	ND	0.000294	0.00200	U
75-69-4	Trichlorofluoromethane	ND	0.000230	0.00200	U
75-01-4	Vinyl chloride	ND	0.000380	0.00200	U

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ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client:	**Peak Environmental**	**Project:**	**Ridgewood**
Client Sample ID:	**Blank**	**Work Order:**	**8100452**
Lab Sample ID:	**B8J1141-BLK1**		

		Prep Date:	10/11/2018 13:05	File ID:	3V34019.D
Init/Final Vol:	5 g / 5 mL	Prep Batch:	B8J1141	Analyzed:	10/11/2018 13:05
		Matrix:	Soil	Sequence:	S8J1706
		Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg wet)	RT	Q
	Sum of Tentatively Identified Compounds	0.000		

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Quantitation Report (QT/LSC Reviewed)

Data File : G:\HPCHEM\3\DATA\10112018\3V34019.D Vial: 74
Acq On : 11 Oct 2018 13:05 Operator: omd
Sample : B8J1141-BLK1 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 12:27 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.54	168	160008	50.00	ug/kg	0.07
33) 1,4-Difluorobenzene	8.95	114	297018	50.00	ug/kg	0.06
52) Chlorobenzene-d5	14.12	82	159603	50.00	ug/kg	0.06
74) 1,4-Dichlorobenzene-d4	18.11	152	134115	50.00	ug/kg	0.04
System Monitoring Compounds						
26) Dibromofluoromethane	7.42	113	105989	54.46	ug/kg	0.07
Spiked Amount 50.000	Range 59 - 147		Recovery = 108.92%			
43) Toluene-d8	11.59	98	357963	53.58	ug/kg	0.06
Spiked Amount 50.000	Range 66 - 134		Recovery = 107.16%			
62) 4-Bromofluorobenzene	16.14	95	157684	58.64	ug/kg	0.04
Spiked Amount 50.000	Range 64 - 125		Recovery = 117.28%			

Target Compounds Qvalue

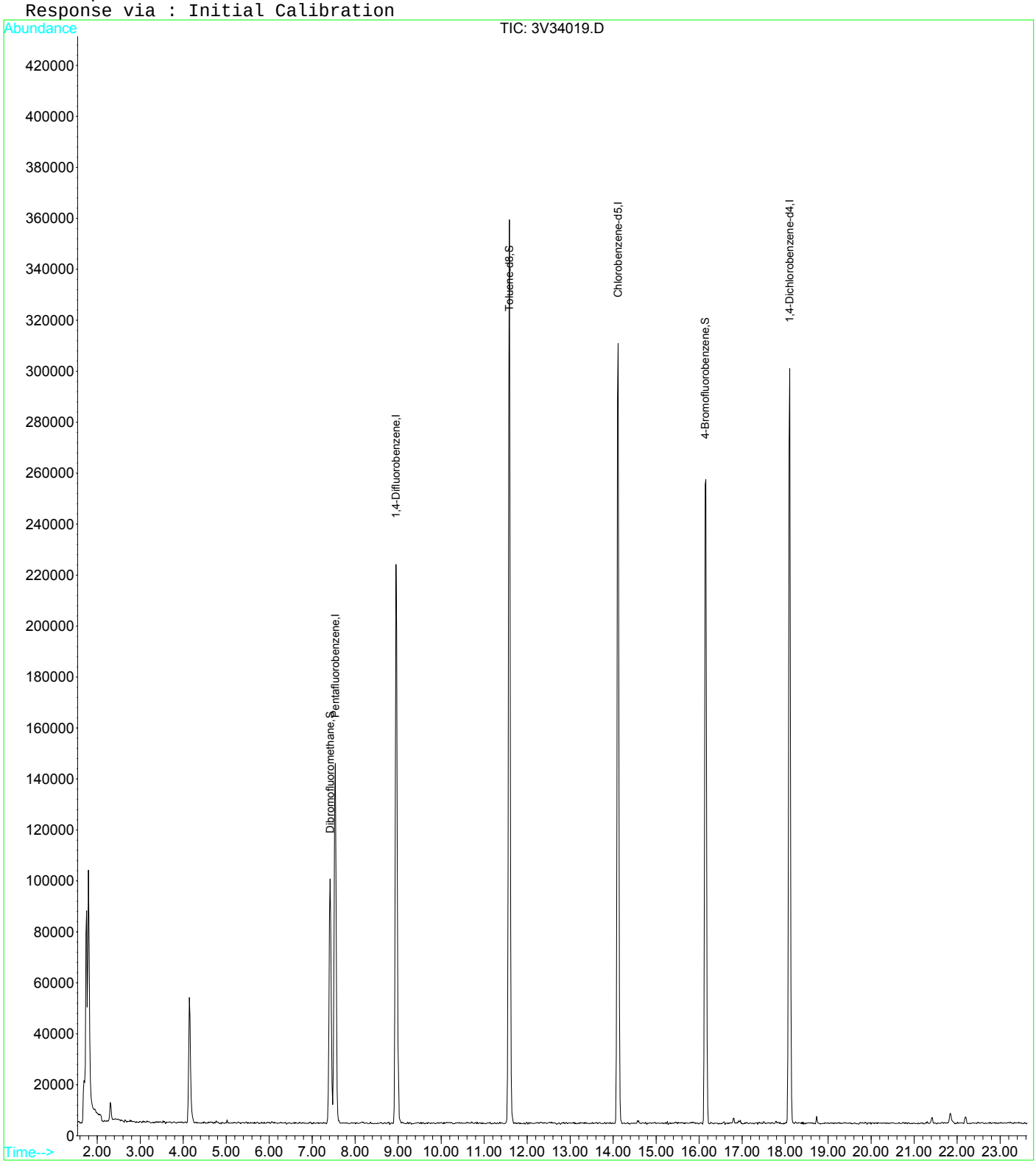
(#) = qualifier out of range (m) = manual integration
3V34019.D 0717WC3.M Wed Oct 17 12:26:09 2018 SS Page 1

15 15.1.

Quantitation Report

Data File : G:\HPCHEM\3\DATA\10112018\3V34019.D Vial: 74
Acq On : 11 Oct 2018 13:05 Operator: omd
Sample : B8J1141-BLK1 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 12:27 2018 Quant Results File: 0717WC3.RES

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration



3V34019.D 0717WC3.M Wed Oct 17 12:26:09 2018 SS Page 2

15 15.1.

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-1A**
Lab Sample ID: **8100452-01**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 18:59	File ID:	3V34002.D
Init/Final Vol:	9.1 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 18:59
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	89.91	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
71-55-6	1,1,1-Trichloroethane	ND	0.000178	0.00122	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.000169	0.00122	U
76-13-1	1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	0.000523	0.00122	U
79-00-5	1,1,2-Trichloroethane	ND	0.000206	0.00122	U
75-34-3	1,1-Dichloroethane	ND	0.000178	0.00122	U
75-35-4	1,1-Dichloroethene	ND	0.000226	0.00122	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.000264	0.00122	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.000326	0.00122	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.000169	0.00122	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.000298	0.00122	U
106-93-4	1,2-Dibromoethane	ND	0.000154	0.00122	U
95-50-1	1,2-Dichlorobenzene	ND	0.000216	0.00122	U
107-06-2	1,2-Dichloroethane	ND	0.000172	0.00122	U
78-87-5	1,2-Dichloropropane	ND	0.000200	0.00122	U
541-73-1	1,3-Dichlorobenzene	ND	0.0000898	0.00122	U
106-46-7	1,4-Dichlorobenzene	ND	0.000176	0.00122	U
78-93-3	2-Butanone	ND	0.000199	0.00306	U
591-78-6	2-Hexanone	ND	0.000114	0.00122	U
108-10-1	4-Methyl-2-pentanone	ND	0.000153	0.00122	U
67-64-1	Acetone	ND	0.000370	0.00306	U
71-43-2	Benzene	ND	0.000111	0.00122	U
74-97-5	Bromochloromethane	ND	0.000226	0.00122	U
75-27-4	Bromodichloromethane	ND	0.000153	0.00122	U
75-25-2	Bromoform	ND	0.000215	0.00122	U
74-83-9	Bromomethane	ND	0.000353	0.00122	U
75-15-0	Carbon disulfide	ND	0.000175	0.00122	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

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ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-1A**
Lab Sample ID: **8100452-01**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 18:59	File ID:	3V34002.D
Init/Final Vol:	9.1 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 18:59
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	89.91	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
56-23-5	Carbon Tetrachloride	ND	0.000184	0.00122	U
108-90-7	Chlorobenzene	ND	0.000177	0.00122	U
124-48-1	Chlorodibromomethane	ND	0.000150	0.00122	U
75-00-3	Chloroethane	ND	0.000208	0.00122	U
67-66-3	Chloroform	ND	0.000205	0.00122	U
74-87-3	Chloromethane	ND	0.000471	0.00122	U
156-59-2	cis-1,2-Dichloroethene	ND	0.0000591	0.00122	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.000155	0.00122	U
110-82-7	Cyclohexane	ND	0.000271	0.00122	U
75-71-8	Dichlorodifluoromethane	ND	0.000413	0.00122	U
100-41-4	EthylBenzene	ND	0.000166	0.00122	U
98-82-8	Isopropylbenzene	ND	0.000192	0.00122	U
179601-23-1	m+p-Xylenes	ND	0.000309	0.00244	U
79-20-9	Methyl Acetate	ND	0.000162	0.00122	U
1634-04-4	Methyl tert-Butyl Ether	ND	0.000207	0.00122	U
108-87-2	Methylcyclohexane	ND	0.000197	0.00122	U
75-09-2	Methylene Chloride	ND	0.000367	0.00122	U
95-47-6	o-Xylene	ND	0.000157	0.00122	U
100-42-5	Styrene	ND	0.000175	0.00122	U
75-65-0	tert-Butyl alcohol	ND	0.00257	0.0122	U
127-18-4	Tetrachloroethene	0.00329	0.000121	0.00122	
108-88-3	Toluene	ND	0.0000984	0.00122	U
1330-20-7	Total Xylenes	ND	0.000157	0.00122	U
156-60-5	trans-1,2-Dichloroethene	ND	0.000166	0.00122	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.000233	0.00122	U
79-01-6	Trichloroethene	ND	0.000180	0.00122	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-1A**
Lab Sample ID: **8100452-01**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 18:59	File ID:	3V34002.D
Init/Final Vol:	9.1 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 18:59
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	89.91	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
75-69-4	Trichlorofluoromethane	ND	0.000141	0.00122	U
75-01-4	Vinyl chloride	ND	0.000232	0.00122	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-1A**
Lab Sample ID: **8100452-01**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 18:59	File ID:	3V34002.D
Init/Final Vol:	9.1 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 18:59
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	89.91	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg dry)	RT	Q

J - Indicates estimated value
B - Indicates compound found in associated blank
D - Indicates result is based on a dilution

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\3\DATA\10102018\3V34002.D Vial: 53
Acq On : 10 Oct 2018 18:59 Operator: omd
Sample : 8100452-01 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:33 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.49	168	150003	50.00	ug/kg	0.03
33) 1,4-Difluorobenzene	8.92	114	284129	50.00	ug/kg	0.03
52) Chlorobenzene-d5	14.07	82	152189	50.00	ug/kg	0.02
74) 1,4-Dichlorobenzene-d4	18.06	152	132035	50.00	ug/kg	0.00
System Monitoring Compounds						
26) Dibromofluoromethane	7.37	113	105847	58.01	ug/kg	0.03
Spiked Amount 50.000	Range 59 - 147		Recovery = 116.02%			
43) Toluene-d8	11.54	98	339816	53.17	ug/kg	0.02
Spiked Amount 50.000	Range 66 - 134		Recovery = 106.34%			
62) 4-Bromofluorobenzene	16.11	95	153370	59.81	ug/kg	0.02
Spiked Amount 50.000	Range 64 - 125		Recovery = 119.62%			
Target Compounds						Qvalue
49) Tetrachloroethene	12.57	166	7007	5.38	ug/kg	91

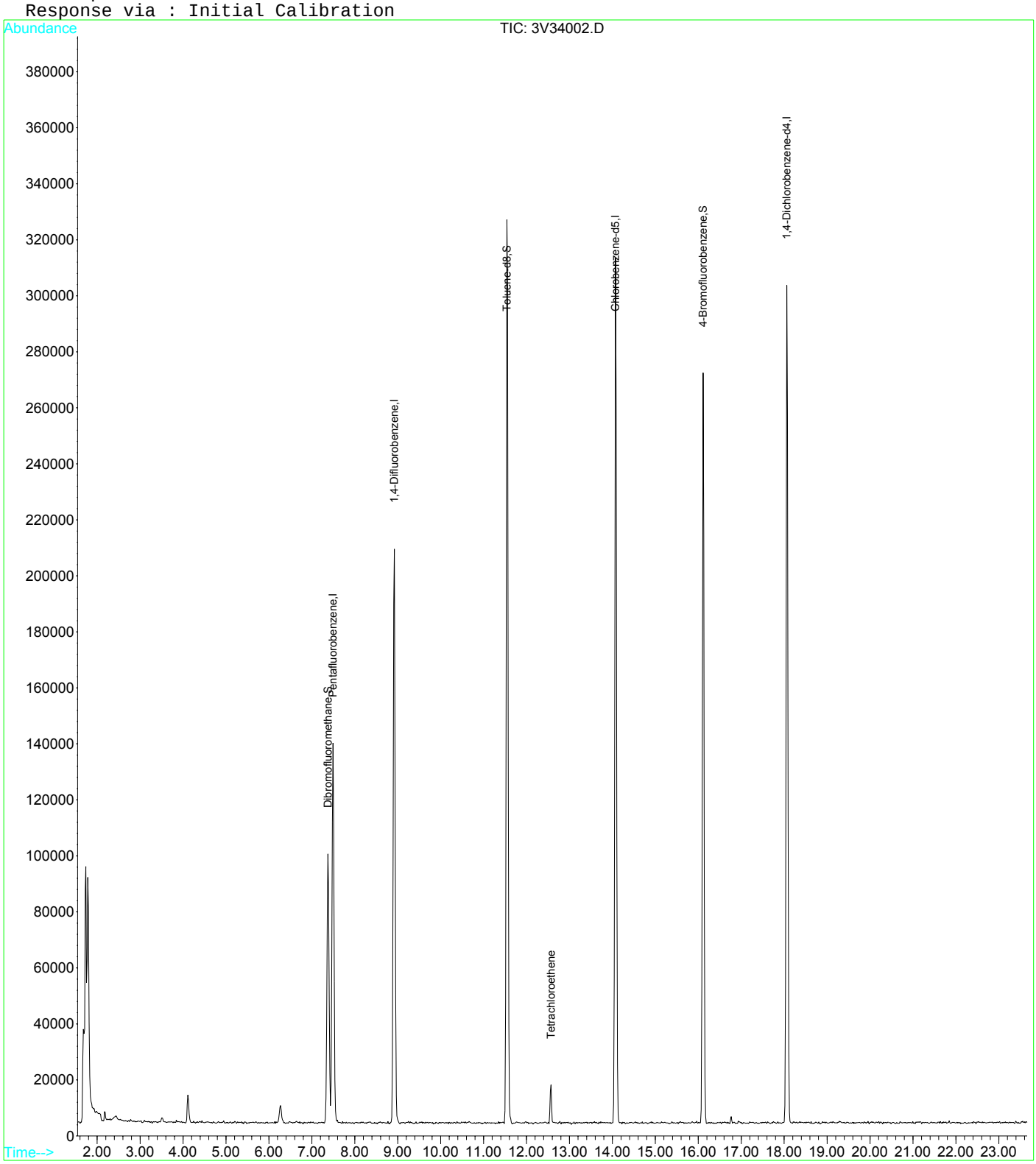
(#) = qualifier out of range (m) = manual integration
3V34002.D 0717WC3.M Thu Oct 11 11:39:55 2018 SS Page 1

15 15.2.

Quantitation Report

Data File : G:\HPCHEM\3\DATA\10102018\3V34002.D Vial: 53
Acq On : 10 Oct 2018 18:59 Operator: omd
Sample : 8100452-01 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:33 2018 Quant Results File: 0717WC3.RES

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration



15 15.2.

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-2A**
Lab Sample ID: **8100452-02**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 19:28	File ID:	3V34003.D
Init/Final Vol:	12.3 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 19:28
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	92.54	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
71-55-6	1,1,1-Trichloroethane	ND	0.000128	0.000879	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.000121	0.000879	U
76-13-1	1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	0.000376	0.000879	U
79-00-5	1,1,2-Trichloroethane	ND	0.000148	0.000879	U
75-34-3	1,1-Dichloroethane	ND	0.000128	0.000879	U
75-35-4	1,1-Dichloroethene	ND	0.000163	0.000879	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.000190	0.000879	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.000234	0.000879	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.000121	0.000879	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.000214	0.000879	U
106-93-4	1,2-Dibromoethane	ND	0.000111	0.000879	U
95-50-1	1,2-Dichlorobenzene	ND	0.000155	0.000879	U
107-06-2	1,2-Dichloroethane	ND	0.000124	0.000879	U
78-87-5	1,2-Dichloropropane	ND	0.000144	0.000879	U
541-73-1	1,3-Dichlorobenzene	ND	0.0000646	0.000879	U
106-46-7	1,4-Dichlorobenzene	ND	0.000127	0.000879	U
78-93-3	2-Butanone	ND	0.000143	0.00220	U
591-78-6	2-Hexanone	ND	0.0000821	0.000879	U
108-10-1	4-Methyl-2-pentanone	ND	0.000110	0.000879	U
67-64-1	Acetone	ND	0.000266	0.00220	U
71-43-2	Benzene	ND	0.0000799	0.000879	U
74-97-5	Bromochloromethane	ND	0.000162	0.000879	U
75-27-4	Bromodichloromethane	ND	0.000110	0.000879	U
75-25-2	Bromoform	ND	0.000154	0.000879	U
74-83-9	Bromomethane	ND	0.000253	0.000879	U
75-15-0	Carbon disulfide	ND	0.000126	0.000879	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-2A**
Lab Sample ID: **8100452-02**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 19:28	File ID:	3V34003.D
Init/Final Vol:	12.3 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 19:28
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	92.54	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
56-23-5	Carbon Tetrachloride	ND	0.000132	0.000879	U
108-90-7	Chlorobenzene	ND	0.000127	0.000879	U
124-48-1	Chlorodibromomethane	ND	0.000108	0.000879	U
75-00-3	Chloroethane	ND	0.000150	0.000879	U
67-66-3	Chloroform	ND	0.000148	0.000879	U
74-87-3	Chloromethane	ND	0.000338	0.000879	U
156-59-2	cis-1,2-Dichloroethene	ND	0.0000425	0.000879	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.000111	0.000879	U
110-82-7	Cyclohexane	ND	0.000195	0.000879	U
75-71-8	Dichlorodifluoromethane	ND	0.000297	0.000879	U
100-41-4	EthylBenzene	ND	0.000119	0.000879	U
98-82-8	Isopropylbenzene	ND	0.000138	0.000879	U
179601-23-1	m+p-Xylenes	ND	0.000222	0.00176	U
79-20-9	Methyl Acetate	ND	0.000116	0.000879	U
1634-04-4	Methyl tert-Butyl Ether	ND	0.000148	0.000879	U
108-87-2	Methylcyclohexane	ND	0.000141	0.000879	U
75-09-2	Methylene Chloride	ND	0.000264	0.000879	U
95-47-6	o-Xylene	ND	0.000113	0.000879	U
100-42-5	Styrene	ND	0.000126	0.000879	U
75-65-0	tert-Butyl alcohol	ND	0.00184	0.00879	U
127-18-4	Tetrachloroethene	0.00240	0.0000870	0.000879	
108-88-3	Toluene	ND	0.0000707	0.000879	U
1330-20-7	Total Xylenes	ND	0.000113	0.000879	U
156-60-5	trans-1,2-Dichloroethene	ND	0.000119	0.000879	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.000168	0.000879	U
79-01-6	Trichloroethene	ND	0.000129	0.000879	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-2A**
Lab Sample ID: **8100452-02**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 19:28	File ID:	3V34003.D
Init/Final Vol:	12.3 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 19:28
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	92.54	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
75-69-4	Trichlorofluoromethane	ND	0.000101	0.000879	U
75-01-4	Vinyl chloride	ND	0.000167	0.000879	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-2A**
Lab Sample ID: **8100452-02**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 19:28	File ID:	3V34003.D
Init/Final Vol:	12.3 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 19:28
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	92.54	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg dry)	RT	Q

J - Indicates estimated value
B - Indicates compound found in associated blank
D - Indicates result is based on a dilution

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\3\DATA\10102018\3V34003.D Vial: 54
Acq On : 10 Oct 2018 19:28 Operator: omd
Sample : 8100452-02 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:34 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

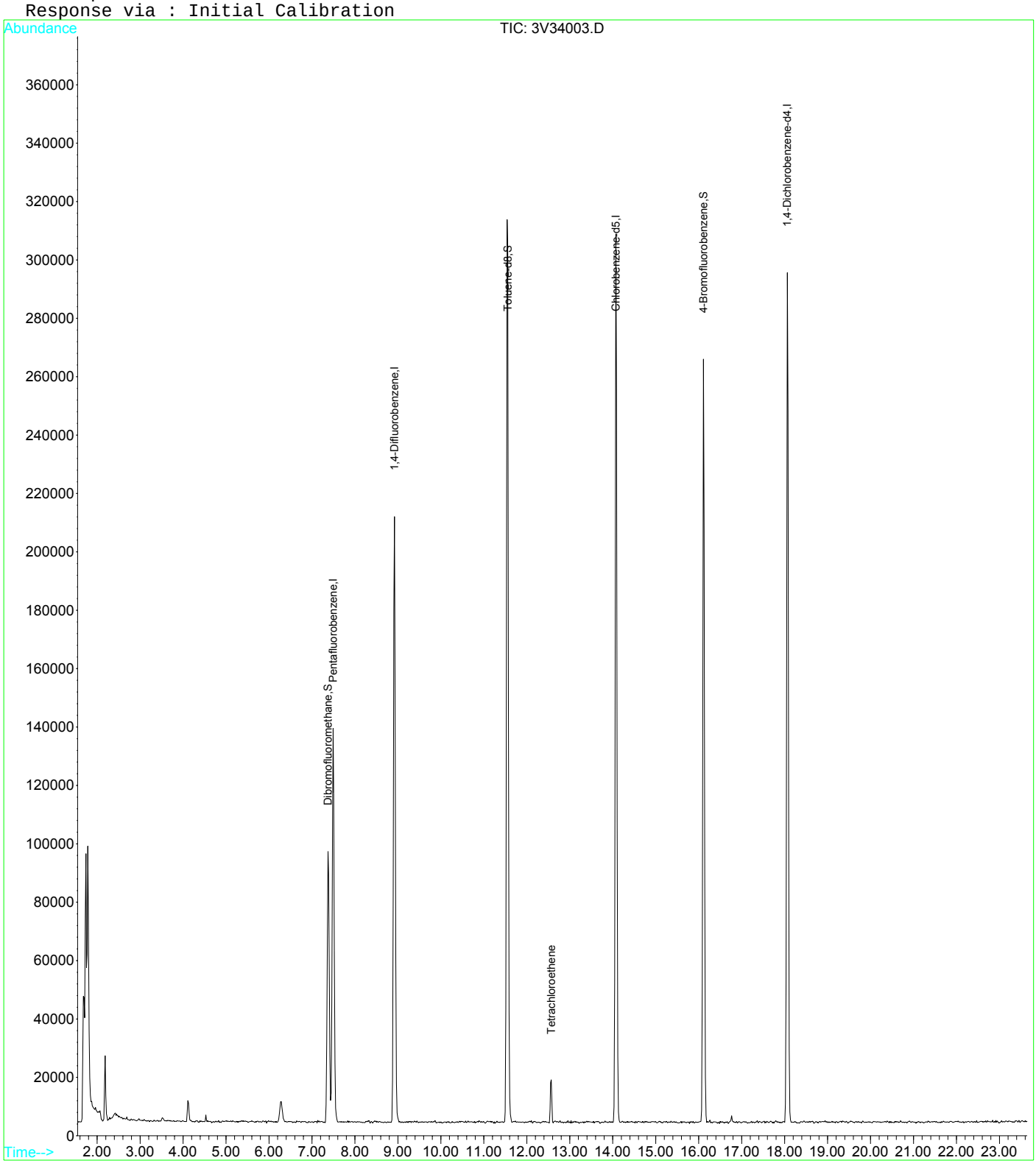
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.49	168	147411	50.00	ug/kg	0.03
33) 1,4-Difluorobenzene	8.92	114	282053	50.00	ug/kg	0.03
52) Chlorobenzene-d5	14.07	82	150180	50.00	ug/kg	0.02
74) 1,4-Dichlorobenzene-d4	18.06	152	126429	50.00	ug/kg	0.00
System Monitoring Compounds						
26) Dibromofluoromethane	7.37	113	103123	57.51	ug/kg	0.03
Spiked Amount 50.000	Range 59 - 147		Recovery = 115.02%			
43) Toluene-d8	11.56	98	331639	52.28	ug/kg	0.03
Spiked Amount 50.000	Range 66 - 134		Recovery = 104.56%			
62) 4-Bromofluorobenzene	16.11	95	149127	58.94	ug/kg	0.02
Spiked Amount 50.000	Range 64 - 125		Recovery = 117.88%			
Target Compounds						Qvalue
49) Tetrachloroethene	12.57	166	7081	5.47	ug/kg	94

(#) = qualifier out of range (m) = manual integration
3V34003.D 0717WC3.M Thu Oct 11 11:39:56 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\3\DATA\10102018\3V34003.D Vial: 54
Acq On : 10 Oct 2018 19:28 Operator: omd
Sample : 8100452-02 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:34 2018 Quant Results File: 0717WC3.RES

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration



ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-4B**
Lab Sample ID: **8100452-05**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:35	Prep Date:	10/10/18 19:58	File ID:	3V34004.D
Init/Final Vol:	11.4 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 19:58
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	92.00	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
71-55-6	1,1,1-Trichloroethane	ND	0.000139	0.000954	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.000132	0.000954	U
76-13-1	1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	0.000408	0.000954	U
79-00-5	1,1,2-Trichloroethane	ND	0.000161	0.000954	U
75-34-3	1,1-Dichloroethane	ND	0.000139	0.000954	U
75-35-4	1,1-Dichloroethene	ND	0.000176	0.000954	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.000206	0.000954	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.000254	0.000954	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.000132	0.000954	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.000233	0.000954	U
106-93-4	1,2-Dibromoethane	ND	0.000120	0.000954	U
95-50-1	1,2-Dichlorobenzene	ND	0.000168	0.000954	U
107-06-2	1,2-Dichloroethane	ND	0.000134	0.000954	U
78-87-5	1,2-Dichloropropane	ND	0.000156	0.000954	U
541-73-1	1,3-Dichlorobenzene	ND	0.0000701	0.000954	U
106-46-7	1,4-Dichlorobenzene	ND	0.000137	0.000954	U
78-93-3	2-Butanone	ND	0.000155	0.00238	U
591-78-6	2-Hexanone	ND	0.0000892	0.000954	U
108-10-1	4-Methyl-2-pentanone	ND	0.000119	0.000954	U
67-64-1	Acetone	ND	0.000289	0.00238	U
71-43-2	Benzene	ND	0.0000868	0.000954	U
74-97-5	Bromochloromethane	ND	0.000176	0.000954	U
75-27-4	Bromodichloromethane	ND	0.000120	0.000954	U
75-25-2	Bromoform	ND	0.000167	0.000954	U
74-83-9	Bromomethane	ND	0.000275	0.000954	U
75-15-0	Carbon disulfide	ND	0.000137	0.000954	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-4B**
Lab Sample ID: **8100452-05**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:35	Prep Date:	10/10/18 19:58	File ID:	3V34004.D
Init/Final Vol:	11.4 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 19:58
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	92.00	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
56-23-5	Carbon Tetrachloride	ND	0.000144	0.000954	U
108-90-7	Chlorobenzene	ND	0.000138	0.000954	U
124-48-1	Chlorodibromomethane	ND	0.000117	0.000954	U
75-00-3	Chloroethane	ND	0.000163	0.000954	U
67-66-3	Chloroform	ND	0.000160	0.000954	U
74-87-3	Chloromethane	ND	0.000367	0.000954	U
156-59-2	cis-1,2-Dichloroethene	ND	0.0000461	0.000954	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.000121	0.000954	U
110-82-7	Cyclohexane	ND	0.000211	0.000954	U
75-71-8	Dichlorodifluoromethane	ND	0.000322	0.000954	U
100-41-4	EthylBenzene	ND	0.000129	0.000954	U
98-82-8	Isopropylbenzene	ND	0.000150	0.000954	U
179601-23-1	m+p-Xylenes	ND	0.000241	0.00191	U
79-20-9	Methyl Acetate	ND	0.000126	0.000954	U
1634-04-4	Methyl tert-Butyl Ether	ND	0.000161	0.000954	U
108-87-2	Methylcyclohexane	ND	0.000154	0.000954	U
75-09-2	Methylene Chloride	ND	0.000287	0.000954	U
95-47-6	o-Xylene	ND	0.000123	0.000954	U
100-42-5	Styrene	ND	0.000136	0.000954	U
75-65-0	tert-Butyl alcohol	ND	0.00200	0.00954	U
127-18-4	Tetrachloroethene	ND	0.0000944	0.000954	U
108-88-3	Toluene	ND	0.0000768	0.000954	U
1330-20-7	Total Xylenes	ND	0.000123	0.000954	U
156-60-5	trans-1,2-Dichloroethene	ND	0.000129	0.000954	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.000182	0.000954	U
79-01-6	Trichloroethene	ND	0.000140	0.000954	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-4B**
Lab Sample ID: **8100452-05**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:35	Prep Date:	10/10/18 19:58	File ID:	3V34004.D
Init/Final Vol:	11.4 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 19:58
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	92.00	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
75-69-4	Trichlorofluoromethane	ND	0.000110	0.000954	U
75-01-4	Vinyl chloride	ND	0.000181	0.000954	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-4B**
Lab Sample ID: **8100452-05**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:35	Prep Date:	10/10/18 19:58	File ID:	3V34004.D
Init/Final Vol:	11.4 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 19:58
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	92.00	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg dry)	RT	Q

J - Indicates estimated value
B - Indicates compound found in associated blank
D - Indicates result is based on a dilution

F-I

Quantitation Report (QT/LSC Reviewed)

Data File : G:\HPCHEM\3\DATA\10102018\3V34004.D Vial: 55
Acq On : 10 Oct 2018 19:58 Operator: omd
Sample : 8100452-05 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:37 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.49	168	153714	50.00	ug/kg	0.03
33) 1,4-Difluorobenzene	8.92	114	287940	50.00	ug/kg	0.03
52) Chlorobenzene-d5	14.07	82	152713	50.00	ug/kg	0.01
74) 1,4-Dichlorobenzene-d4	18.08	152	134717	50.00	ug/kg	0.01
System Monitoring Compounds						
26) Dibromofluoromethane	7.37	113	107367	57.43	ug/kg	0.03
Spiked Amount 50.000	Range 59 - 147		Recovery = 114.86%			
43) Toluene-d8	11.56	98	345576	53.36	ug/kg	0.03
Spiked Amount 50.000	Range 66 - 134		Recovery = 106.72%			
62) 4-Bromofluorobenzene	16.11	95	146652m	57.00	ug/kg	0.01
Spiked Amount 50.000	Range 64 - 125		Recovery = 114.00%			

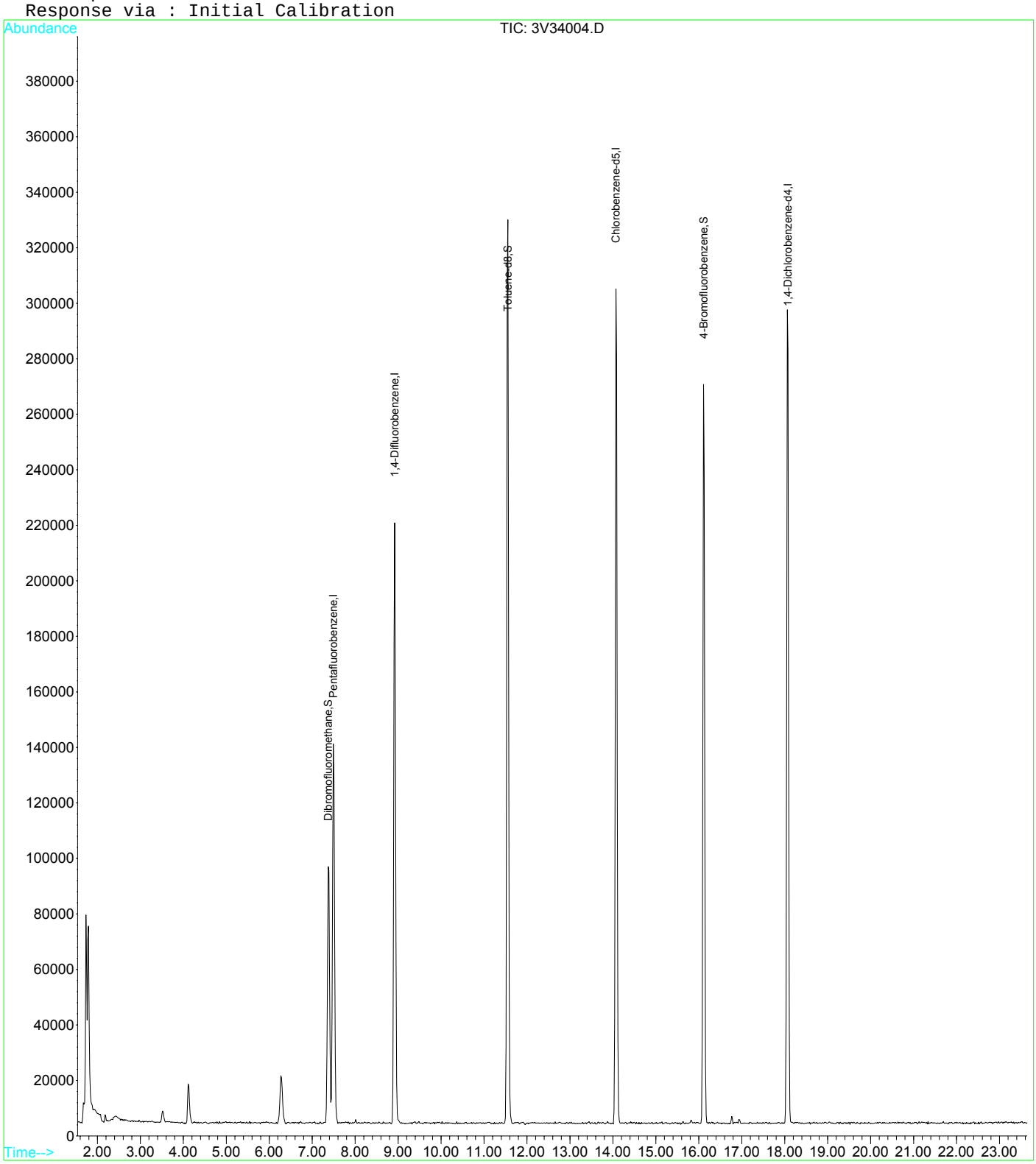
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
3V34004.D 0717WC3.M Thu Oct 11 11:39:58 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\3\DATA\10102018\3V34004.D Vial: 55
Acq On : 10 Oct 2018 19:58 Operator: omd
Sample : 8100452-05 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:37 2018 Quant Results File: 0717WC3.RES

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration



ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-6**
Lab Sample ID: **8100452-06**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:50	Prep Date:	10/10/18 20:28	File ID:	3V34005.D
Init/Final Vol:	10 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 20:28
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	87.70	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
71-55-6	1,1,1-Trichloroethane	ND	0.000166	0.00114	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.000157	0.00114	U
76-13-1	1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	0.000488	0.00114	U
79-00-5	1,1,2-Trichloroethane	ND	0.000192	0.00114	U
75-34-3	1,1-Dichloroethane	ND	0.000166	0.00114	U
75-35-4	1,1-Dichloroethene	ND	0.000211	0.00114	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.000246	0.00114	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.000304	0.00114	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.000157	0.00114	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.000278	0.00114	U
106-93-4	1,2-Dibromoethane	ND	0.000144	0.00114	U
95-50-1	1,2-Dichlorobenzene	ND	0.000201	0.00114	U
107-06-2	1,2-Dichloroethane	ND	0.000161	0.00114	U
78-87-5	1,2-Dichloropropane	ND	0.000187	0.00114	U
541-73-1	1,3-Dichlorobenzene	ND	0.0000838	0.00114	U
106-46-7	1,4-Dichlorobenzene	ND	0.000164	0.00114	U
78-93-3	2-Butanone	ND	0.000186	0.00285	U
591-78-6	2-Hexanone	ND	0.000107	0.00114	U
108-10-1	4-Methyl-2-pentanone	ND	0.000143	0.00114	U
67-64-1	Acetone	ND	0.000345	0.00285	U
71-43-2	Benzene	ND	0.000104	0.00114	U
74-97-5	Bromochloromethane	ND	0.000210	0.00114	U
75-27-4	Bromodichloromethane	ND	0.000143	0.00114	U
75-25-2	Bromoform	ND	0.000200	0.00114	U
74-83-9	Bromomethane	ND	0.000329	0.00114	U
75-15-0	Carbon disulfide	ND	0.000164	0.00114	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-6**
Lab Sample ID: **8100452-06**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:50	Prep Date:	10/10/18 20:28	File ID:	3V34005.D
Init/Final Vol:	10 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 20:28
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	87.70	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
56-23-5	Carbon Tetrachloride	ND	0.000172	0.00114	U
108-90-7	Chlorobenzene	ND	0.000165	0.00114	U
124-48-1	Chlorodibromomethane	ND	0.000140	0.00114	U
75-00-3	Chloroethane	ND	0.000194	0.00114	U
67-66-3	Chloroform	ND	0.000192	0.00114	U
74-87-3	Chloromethane	ND	0.000439	0.00114	U
156-59-2	cis-1,2-Dichloroethene	ND	0.0000551	0.00114	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.000144	0.00114	U
110-82-7	Cyclohexane	ND	0.000253	0.00114	U
75-71-8	Dichlorodifluoromethane	ND	0.000385	0.00114	U
100-41-4	EthylBenzene	ND	0.000154	0.00114	U
98-82-8	Isopropylbenzene	ND	0.000179	0.00114	U
179601-23-1	m+p-Xylenes	ND	0.000288	0.00228	U
79-20-9	Methyl Acetate	ND	0.000151	0.00114	U
1634-04-4	Methyl tert-Butyl Ether	ND	0.000193	0.00114	U
108-87-2	Methylcyclohexane	ND	0.000184	0.00114	U
75-09-2	Methylene Chloride	ND	0.000343	0.00114	U
95-47-6	o-Xylene	ND	0.000147	0.00114	U
100-42-5	Styrene	ND	0.000163	0.00114	U
75-65-0	tert-Butyl alcohol	ND	0.00239	0.0114	U
127-18-4	Tetrachloroethene	ND	0.000113	0.00114	U
108-88-3	Toluene	ND	0.0000918	0.00114	U
1330-20-7	Total Xylenes	ND	0.000147	0.00114	U
156-60-5	trans-1,2-Dichloroethene	ND	0.000154	0.00114	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.000218	0.00114	U
79-01-6	Trichloroethene	ND	0.000168	0.00114	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-6**
Lab Sample ID: **8100452-06**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:50	Prep Date:	10/10/18 20:28	File ID:	3V34005.D
Init/Final Vol:	10 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 20:28
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	87.70	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
75-69-4	Trichlorofluoromethane	ND	0.000131	0.00114	U
75-01-4	Vinyl chloride	ND	0.000217	0.00114	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-6**
Lab Sample ID: **8100452-06**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:50	Prep Date:	10/10/18 20:28	File ID:	3V34005.D
Init/Final Vol:	10 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 20:28
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	87.70	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg dry)	RT	Q

J - Indicates estimated value
B - Indicates compound found in associated blank
D - Indicates result is based on a dilution

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\3\DATA\10102018\3V34005.D Vial: 56
Acq On : 10 Oct 2018 20:28 Operator: omd
Sample : 8100452-06 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:36 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.51	168	121951	50.00	ug/kg	0.05
33) 1,4-Difluorobenzene	8.92	114	230145	50.00	ug/kg	0.03
52) Chlorobenzene-d5	14.07	82	121749	50.00	ug/kg	0.02
74) 1,4-Dichlorobenzene-d4	18.06	152	109706	50.00	ug/kg	0.00
System Monitoring Compounds						
26) Dibromofluoromethane	7.37	113	86488	58.31	ug/kg	0.03
Spiked Amount 50.000	Range 59 - 147		Recovery = 116.62%			
43) Toluene-d8	11.56	98	273822	52.90	ug/kg	0.03
Spiked Amount 50.000	Range 66 - 134		Recovery = 105.80%			
62) 4-Bromofluorobenzene	16.11	95	122749m	59.84	ug/kg	0.02
Spiked Amount 50.000	Range 64 - 125		Recovery = 119.68%			

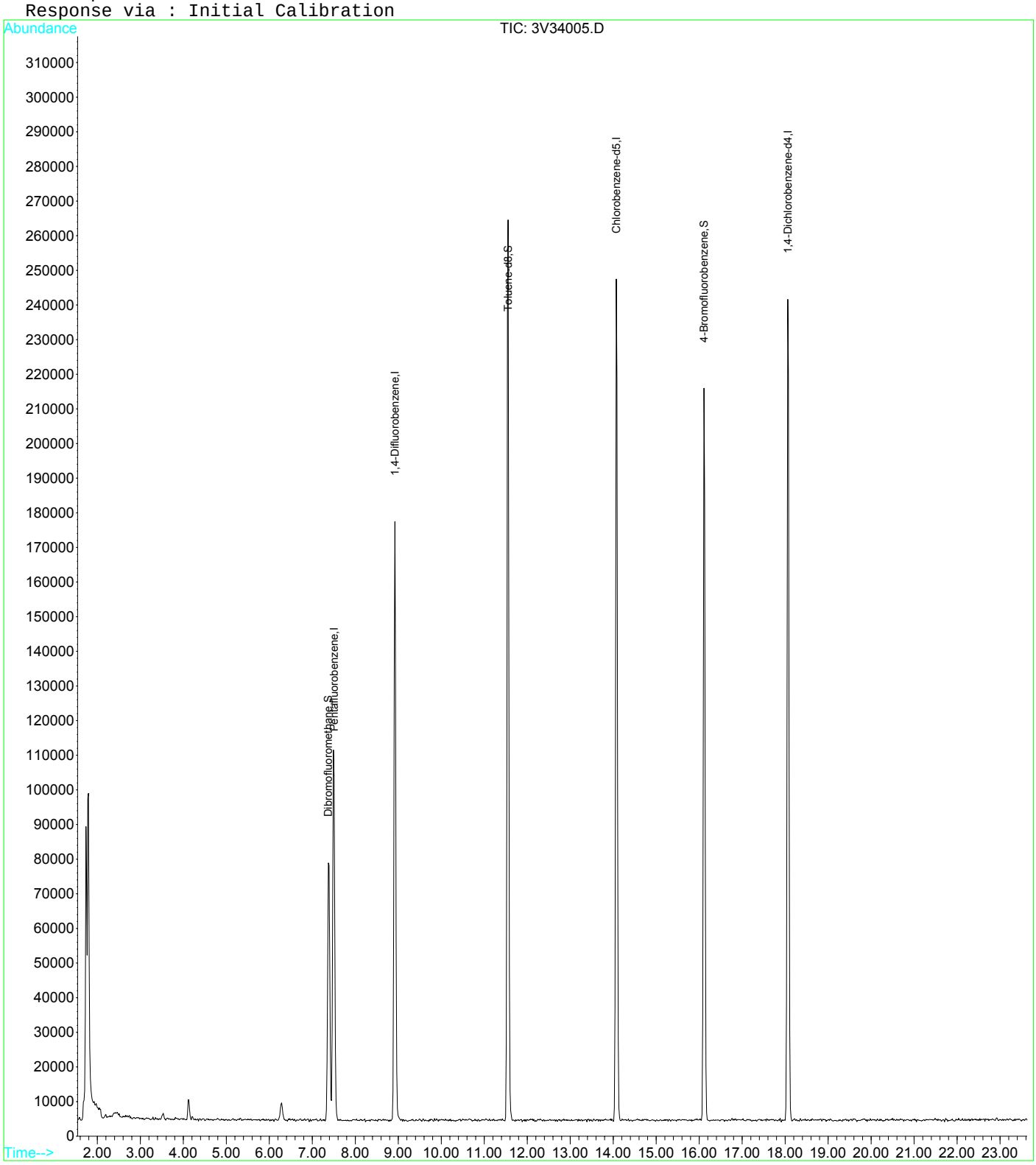
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
3V34005.D 0717WC3.M Thu Oct 11 11:39:59 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\3\DATA\10102018\3V34005.D Vial: 56
Acq On : 10 Oct 2018 20:28 Operator: omd
Sample : 8100452-06 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:36 2018 Quant Results File: 0717WC3.RES

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration



ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-7**
Lab Sample ID: **8100452-07**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:00	Prep Date:	10/10/18 21:02	File ID:	3V34006.D
Init/Final Vol:	10.3 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 21:02
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	91.36	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
71-55-6	1,1,1-Trichloroethane	ND	0.000155	0.00106	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.000147	0.00106	U
76-13-1	1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	0.000455	0.00106	U
79-00-5	1,1,2-Trichloroethane	ND	0.000179	0.00106	U
75-34-3	1,1-Dichloroethane	ND	0.000155	0.00106	U
75-35-4	1,1-Dichloroethene	ND	0.000197	0.00106	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.000230	0.00106	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.000283	0.00106	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.000147	0.00106	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.000259	0.00106	U
106-93-4	1,2-Dibromoethane	ND	0.000134	0.00106	U
95-50-1	1,2-Dichlorobenzene	ND	0.000188	0.00106	U
107-06-2	1,2-Dichloroethane	ND	0.000150	0.00106	U
78-87-5	1,2-Dichloropropane	ND	0.000174	0.00106	U
541-73-1	1,3-Dichlorobenzene	ND	0.0000781	0.00106	U
106-46-7	1,4-Dichlorobenzene	ND	0.000153	0.00106	U
78-93-3	2-Butanone	ND	0.000173	0.00266	U
591-78-6	2-Hexanone	ND	0.0000994	0.00106	U
108-10-1	4-Methyl-2-pentanone	ND	0.000133	0.00106	U
67-64-1	Acetone	ND	0.000322	0.00266	U
71-43-2	Benzene	ND	0.0000967	0.00106	U
74-97-5	Bromochloromethane	ND	0.000196	0.00106	U
75-27-4	Bromodichloromethane	ND	0.000133	0.00106	U
75-25-2	Bromoform	ND	0.000187	0.00106	U
74-83-9	Bromomethane	ND	0.000307	0.00106	U
75-15-0	Carbon disulfide	ND	0.000153	0.00106	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-7**
Lab Sample ID: **8100452-07**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:00	Prep Date:	10/10/18 21:02	File ID:	3V34006.D
Init/Final Vol:	10.3 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 21:02
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	91.36	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
56-23-5	Carbon Tetrachloride	ND	0.000160	0.00106	U
108-90-7	Chlorobenzene	ND	0.000154	0.00106	U
124-48-1	Chlorodibromomethane	ND	0.000131	0.00106	U
75-00-3	Chloroethane	ND	0.000181	0.00106	U
67-66-3	Chloroform	ND	0.000179	0.00106	U
74-87-3	Chloromethane	ND	0.000409	0.00106	U
156-59-2	cis-1,2-Dichloroethene	ND	0.0000514	0.00106	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.000134	0.00106	U
110-82-7	Cyclohexane	ND	0.000235	0.00106	U
75-71-8	Dichlorodifluoromethane	ND	0.000359	0.00106	U
100-41-4	EthylBenzene	ND	0.000144	0.00106	U
98-82-8	Isopropylbenzene	ND	0.000167	0.00106	U
179601-23-1	m+p-Xylenes	ND	0.000268	0.00213	U
79-20-9	Methyl Acetate	ND	0.000141	0.00106	U
1634-04-4	Methyl tert-Butyl Ether	ND	0.000180	0.00106	U
108-87-2	Methylcyclohexane	ND	0.000171	0.00106	U
75-09-2	Methylene Chloride	ND	0.000319	0.00106	U
95-47-6	o-Xylene	ND	0.000137	0.00106	U
100-42-5	Styrene	ND	0.000152	0.00106	U
75-65-0	tert-Butyl alcohol	ND	0.00223	0.0106	U
127-18-4	Tetrachloroethene	ND	0.000105	0.00106	U
108-88-3	Toluene	ND	0.0000856	0.00106	U
1330-20-7	Total Xylenes	ND	0.000137	0.00106	U
156-60-5	trans-1,2-Dichloroethene	ND	0.000144	0.00106	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.000203	0.00106	U
79-01-6	Trichloroethene	ND	0.000156	0.00106	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-7**
Lab Sample ID: **8100452-07**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:00	Prep Date:	10/10/18 21:02	File ID:	3V34006.D
Init/Final Vol:	10.3 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 21:02
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	91.36	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
75-69-4	Trichlorofluoromethane	ND	0.000122	0.00106	U
75-01-4	Vinyl chloride	ND	0.000202	0.00106	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-7**
Lab Sample ID: **8100452-07**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:00	Prep Date:	10/10/18 21:02	File ID:	3V34006.D
Init/Final Vol:	10.3 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 21:02
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	91.36	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg dry)	RT	Q

J - Indicates estimated value
B - Indicates compound found in associated blank
D - Indicates result is based on a dilution

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\3\DATA\10102018\3V34006.D Vial: 57
Acq On : 10 Oct 2018 21:02 Operator: omd
Sample : 8100452-07 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:37 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.51	168	140882	50.00	ug/kg	0.05
33) 1,4-Difluorobenzene	8.92	114	262094	50.00	ug/kg	0.03
52) Chlorobenzene-d5	14.07	82	139480	50.00	ug/kg	0.02
74) 1,4-Dichlorobenzene-d4	18.08	152	114467	50.00	ug/kg	0.02
System Monitoring Compounds						
26) Dibromofluoromethane	7.39	113	96471	56.30	ug/kg	0.05
Spiked Amount 50.000	Range 59 - 147		Recovery = 112.60%			
43) Toluene-d8	11.56	98	313500	53.18	ug/kg	0.03
Spiked Amount 50.000	Range 66 - 134		Recovery = 106.36%			
62) 4-Bromofluorobenzene	16.11	95	139563	59.39	ug/kg	0.02
Spiked Amount 50.000	Range 64 - 125		Recovery = 118.78%			

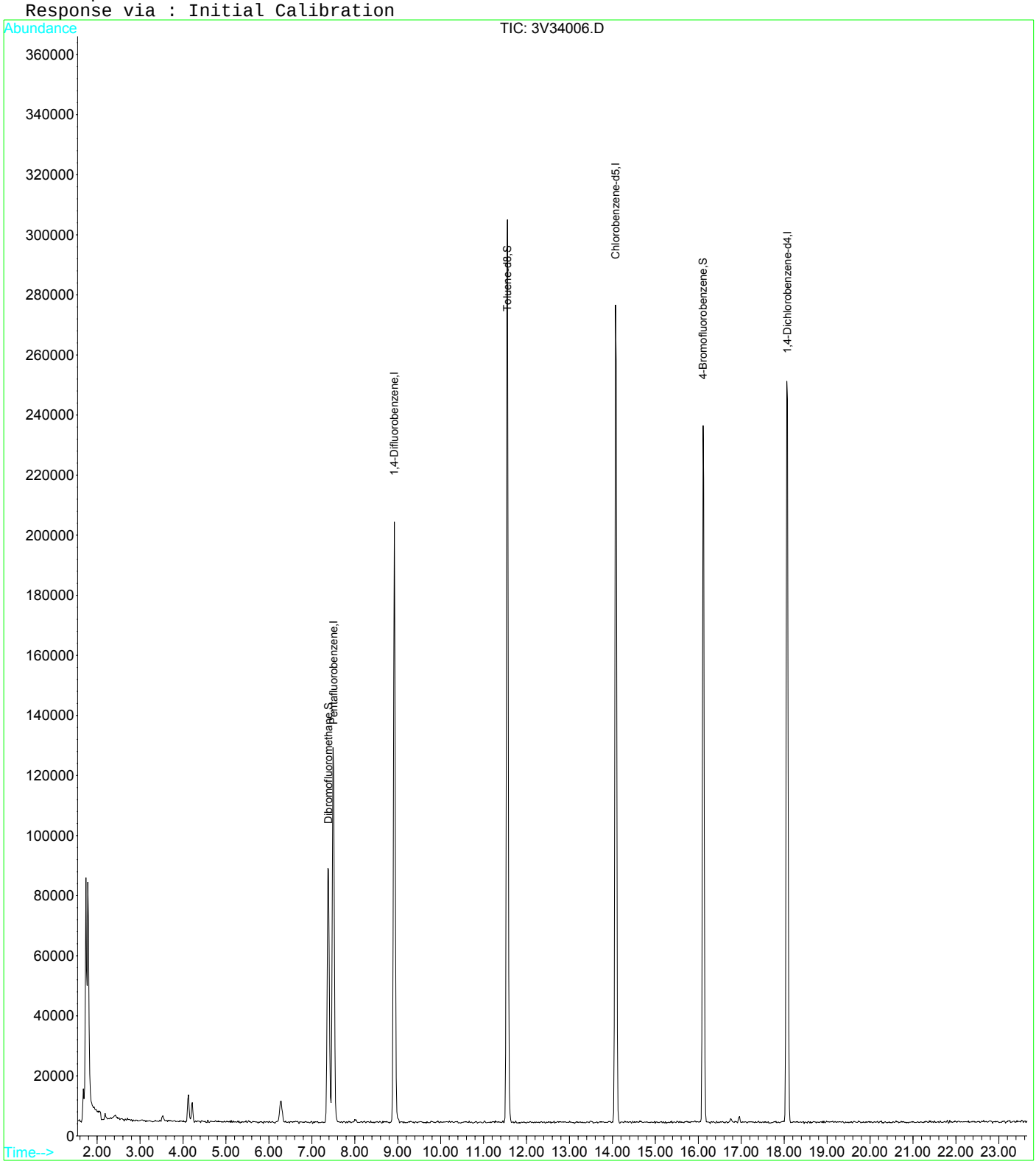
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
3V34006.D 0717WC3.M Thu Oct 11 11:40:01 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\3\DATA\10102018\3V34006.D Vial: 57
Acq On : 10 Oct 2018 21:02 Operator: omd
Sample : 8100452-07 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:37 2018 Quant Results File: 0717WC3.RES

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration



3V34006.D 0717WC3.M Thu Oct 11 11:40:01 2018 SS Page 2

15 15.2.

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-1B**
Lab Sample ID: **8100452-08**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:15	Prep Date:	10/11/18 13:34	File ID:	3V34020.D
Init/Final Vol:	4.1 g / 5 mL	Prep Batch:	B8J1141	Analyzed:	10/11/18 13:34
Dilution:	1	Matrix:	Soil	Sequence:	S8J1706
Percent Solids:	89.59	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
71-55-6	1,1,1-Trichloroethane	ND	0.000397	0.00272	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.000376	0.00272	U
76-13-1	1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	0.00117	0.00272	U
79-00-5	1,1,2-Trichloroethane	ND	0.000459	0.00272	U
75-34-3	1,1-Dichloroethane	ND	0.000397	0.00272	U
75-35-4	1,1-Dichloroethene	ND	0.000504	0.00272	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.000588	0.00272	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.000726	0.00272	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.000376	0.00272	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.000664	0.00272	U
106-93-4	1,2-Dibromoethane	ND	0.000343	0.00272	U
95-50-1	1,2-Dichlorobenzene	ND	0.000481	0.00272	U
107-06-2	1,2-Dichloroethane	ND	0.000384	0.00272	U
78-87-5	1,2-Dichloropropane	ND	0.000446	0.00272	U
541-73-1	1,3-Dichlorobenzene	ND	0.000200	0.00272	U
106-46-7	1,4-Dichlorobenzene	ND	0.000392	0.00272	U
78-93-3	2-Butanone	ND	0.000444	0.00681	U
591-78-6	2-Hexanone	ND	0.000255	0.00272	U
108-10-1	4-Methyl-2-pentanone	ND	0.000340	0.00272	U
67-64-1	Acetone	ND	0.000825	0.00681	U
71-43-2	Benzene	ND	0.000248	0.00272	U
74-97-5	Bromochloromethane	ND	0.000502	0.00272	U
75-27-4	Bromodichloromethane	ND	0.000342	0.00272	U
75-25-2	Bromoform	ND	0.000478	0.00272	U
74-83-9	Bromomethane	ND	0.000785	0.00272	U
75-15-0	Carbon disulfide	ND	0.000391	0.00272	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-1B**
Lab Sample ID: **8100452-08**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:15	Prep Date:	10/11/18 13:34	File ID:	3V34020.D
Init/Final Vol:	4.1 g / 5 mL	Prep Batch:	B8J1141	Analyzed:	10/11/18 13:34
Dilution:	1	Matrix:	Soil	Sequence:	S8J1706
Percent Solids:	89.59	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
56-23-5	Carbon Tetrachloride	ND	0.000410	0.00272	U
108-90-7	Chlorobenzene	ND	0.000395	0.00272	U
124-48-1	Chlorodibromomethane	ND	0.000335	0.00272	U
75-00-3	Chloroethane	ND	0.000464	0.00272	U
67-66-3	Chloroform	ND	0.000457	0.00272	U
74-87-3	Chloromethane	ND	0.00105	0.00272	U
156-59-2	cis-1,2-Dichloroethene	ND	0.000132	0.00272	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.000344	0.00272	U
110-82-7	Cyclohexane	ND	0.000603	0.00272	U
75-71-8	Dichlorodifluoromethane	ND	0.000919	0.00272	U
100-41-4	EthylBenzene	ND	0.000369	0.00272	U
98-82-8	Isopropylbenzene	ND	0.000427	0.00272	U
179601-23-1	m+p-Xylenes	ND	0.000687	0.00544	U
79-20-9	Methyl Acetate	ND	0.000361	0.00272	U
1634-04-4	Methyl tert-Butyl Ether	ND	0.000460	0.00272	U
108-87-2	Methylcyclohexane	ND	0.000438	0.00272	U
75-09-2	Methylene Chloride	ND	0.000818	0.00272	U
95-47-6	o-Xylene	ND	0.000350	0.00272	U
100-42-5	Styrene	ND	0.000389	0.00272	U
75-65-0	tert-Butyl alcohol	ND	0.00572	0.0272	U
127-18-4	Tetrachloroethene	ND	0.000270	0.00272	U
108-88-3	Toluene	ND	0.000219	0.00272	U
1330-20-7	Total Xylenes	ND	0.000350	0.00272	U
156-60-5	trans-1,2-Dichloroethene	ND	0.000369	0.00272	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.000520	0.00272	U
79-01-6	Trichloroethene	ND	0.000400	0.00272	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-1B**
Lab Sample ID: **8100452-08**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:15	Prep Date:	10/11/18 13:34	File ID:	3V34020.D
Init/Final Vol:	4.1 g / 5 mL	Prep Batch:	B8J1141	Analyzed:	10/11/18 13:34
Dilution:	1	Matrix:	Soil	Sequence:	S8J1706
Percent Solids:	89.59	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
75-69-4	Trichlorofluoromethane	ND	0.000313	0.00272	U
75-01-4	Vinyl chloride	ND	0.000517	0.00272	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-1B**
Lab Sample ID: **8100452-08**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:15	Prep Date:	10/11/18 13:34	File ID:	3V34020.D
Init/Final Vol:	4.1 g / 5 mL	Prep Batch:	B8J1141	Analyzed:	10/11/18 13:34
Dilution:	1	Matrix:	Soil	Sequence:	S8J1706
Percent Solids:	89.59	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg dry)	RT	Q

J - Indicates estimated value
B - Indicates compound found in associated blank
D - Indicates result is based on a dilution

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\3\DATA\10112018\3V34020.D Vial: 75
Acq On : 11 Oct 2018 13:34 Operator: omd
Sample : 8100452-08 Inst : GCMS-3
Misc : soil re Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 16:25 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.54	168	157363	50.00	ug/kg	0.07
33) 1,4-Difluorobenzene	8.95	114	288376	50.00	ug/kg	0.06
52) Chlorobenzene-d5	14.10	82	154637	50.00	ug/kg	0.05
74) 1,4-Dichlorobenzene-d4	18.11	152	136983	50.00	ug/kg	0.05
System Monitoring Compounds						
26) Dibromofluoromethane	7.42	113	106632	55.71	ug/kg	0.07
Spiked Amount 50.000	Range 59 - 147		Recovery = 111.42%			
43) Toluene-d8	11.59	98	346621	53.44	ug/kg	0.06
Spiked Amount 50.000	Range 66 - 134		Recovery = 106.88%			
62) 4-Bromofluorobenzene	16.14	95	156107	59.92	ug/kg	0.05
Spiked Amount 50.000	Range 64 - 125		Recovery = 119.84%			

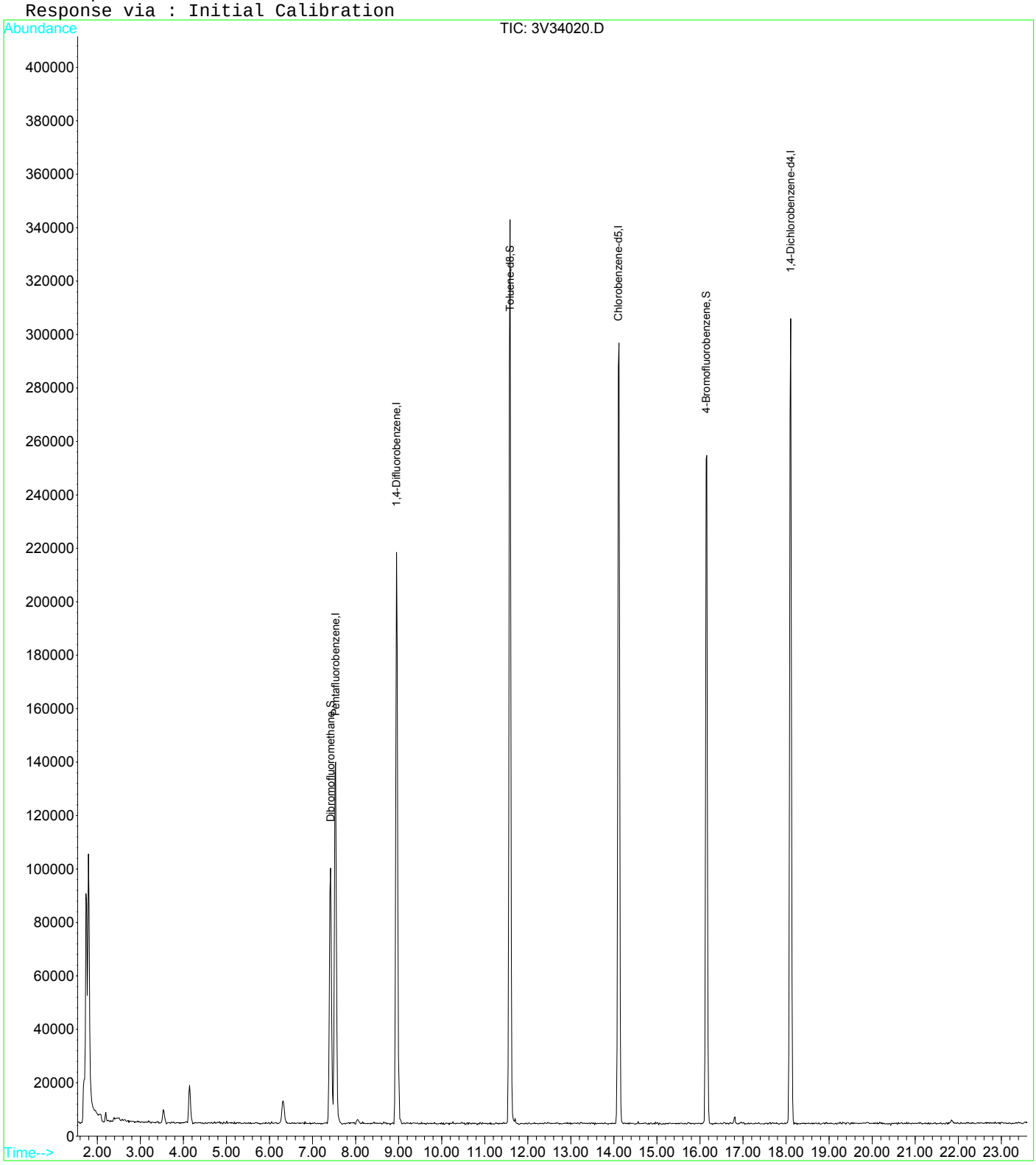
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
3V34020.D 0717WC3.M Thu Oct 11 16:23:23 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\3\DATA\10112018\3V34020.D Vial: 75
Acq On : 11 Oct 2018 13:34 Operator: omd
Sample : 8100452-08 Inst : GCMS-3
Misc : soil re Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 16:25 2018 Quant Results File: 0717WC3.RES

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration



ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-4A**
Lab Sample ID: **8100452-11**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 22:01	File ID:	3V34008.D
Init/Final Vol:	14.8 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 22:01
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	90.63	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
71-55-6	1,1,1-Trichloroethane	ND	0.000109	0.000746	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.000103	0.000746	U
76-13-1	1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	0.000319	0.000746	U
79-00-5	1,1,2-Trichloroethane	ND	0.000126	0.000746	U
75-34-3	1,1-Dichloroethane	ND	0.000109	0.000746	U
75-35-4	1,1-Dichloroethene	ND	0.000138	0.000746	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.000161	0.000746	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.000199	0.000746	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.000103	0.000746	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.000182	0.000746	U
106-93-4	1,2-Dibromoethane	ND	0.0000939	0.000746	U
95-50-1	1,2-Dichlorobenzene	ND	0.000132	0.000746	U
107-06-2	1,2-Dichloroethane	ND	0.000105	0.000746	U
78-87-5	1,2-Dichloropropane	ND	0.000122	0.000746	U
541-73-1	1,3-Dichlorobenzene	ND	0.0000548	0.000746	U
106-46-7	1,4-Dichlorobenzene	ND	0.000107	0.000746	U
78-93-3	2-Butanone	ND	0.000122	0.00186	U
591-78-6	2-Hexanone	ND	0.0000697	0.000746	U
108-10-1	4-Methyl-2-pentanone	ND	0.0000932	0.000746	U
67-64-1	Acetone	ND	0.000226	0.00186	U
71-43-2	Benzene	ND	0.0000678	0.000746	U
74-97-5	Bromochloromethane	ND	0.000138	0.000746	U
75-27-4	Bromodichloromethane	ND	0.0000936	0.000746	U
75-25-2	Bromoform	ND	0.000131	0.000746	U
74-83-9	Bromomethane	ND	0.000215	0.000746	U
75-15-0	Carbon disulfide	ND	0.000107	0.000746	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-4A**
Lab Sample ID: **8100452-11**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 22:01	File ID:	3V34008.D
Init/Final Vol:	14.8 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 22:01
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	90.63	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
56-23-5	Carbon Tetrachloride	ND	0.000112	0.000746	U
108-90-7	Chlorobenzene	ND	0.000108	0.000746	U
124-48-1	Chlorodibromomethane	ND	0.0000917	0.000746	U
75-00-3	Chloroethane	ND	0.000127	0.000746	U
67-66-3	Chloroform	ND	0.000125	0.000746	U
74-87-3	Chloromethane	ND	0.000287	0.000746	U
156-59-2	cis-1,2-Dichloroethene	ND	0.0000360	0.000746	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.0000943	0.000746	U
110-82-7	Cyclohexane	ND	0.000165	0.000746	U
75-71-8	Dichlorodifluoromethane	ND	0.000252	0.000746	U
100-41-4	EthylBenzene	ND	0.000101	0.000746	U
98-82-8	Isopropylbenzene	ND	0.000117	0.000746	U
179601-23-1	m+p-Xylenes	ND	0.000188	0.00149	U
79-20-9	Methyl Acetate	ND	0.0000988	0.000746	U
1634-04-4	Methyl tert-Butyl Ether	ND	0.000126	0.000746	U
108-87-2	Methylcyclohexane	ND	0.000120	0.000746	U
75-09-2	Methylene Chloride	ND	0.000224	0.000746	U
95-47-6	o-Xylene	ND	0.0000958	0.000746	U
100-42-5	Styrene	ND	0.000107	0.000746	U
75-65-0	tert-Butyl alcohol	ND	0.00157	0.00746	U
127-18-4	Tetrachloroethene	ND	0.0000738	0.000746	U
108-88-3	Toluene	ND	0.0000600	0.000746	U
1330-20-7	Total Xylenes	ND	0.0000958	0.000746	U
156-60-5	trans-1,2-Dichloroethene	ND	0.000101	0.000746	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.000142	0.000746	U
79-01-6	Trichloroethene	ND	0.000110	0.000746	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-4A**
Lab Sample ID: **8100452-11**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 22:01	File ID:	3V34008.D
Init/Final Vol:	14.8 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 22:01
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	90.63	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
75-69-4	Trichlorofluoromethane	ND	0.0000857	0.000746	U
75-01-4	Vinyl chloride	ND	0.000142	0.000746	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-4A**
Lab Sample ID: **8100452-11**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 22:01	File ID:	3V34008.D
Init/Final Vol:	14.8 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 22:01
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	90.63	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg dry)	RT	Q

J - Indicates estimated value
B - Indicates compound found in associated blank
D - Indicates result is based on a dilution

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\3\DATA\10102018\3V34008.D Vial: 59
Acq On : 10 Oct 2018 22:01 Operator: omd
Sample : 8100452-11 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:38 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.49	168	147505	50.00	ug/kg	0.03
33) 1,4-Difluorobenzene	8.92	114	269462	50.00	ug/kg	0.03
52) Chlorobenzene-d5	14.07	82	143908	50.00	ug/kg	0.02
74) 1,4-Dichlorobenzene-d4	18.08	152	125562	50.00	ug/kg	0.02
System Monitoring Compounds						
26) Dibromofluoromethane	7.37	113	99824	55.64	ug/kg	0.03
Spiked Amount 50.000	Range 59 - 147		Recovery = 111.28%			
43) Toluene-d8	11.56	98	321151	52.99	ug/kg	0.03
Spiked Amount 50.000	Range 66 - 134		Recovery = 105.98%			
62) 4-Bromofluorobenzene	16.11	95	145178	59.88	ug/kg	0.02
Spiked Amount 50.000	Range 64 - 125		Recovery = 119.76%			

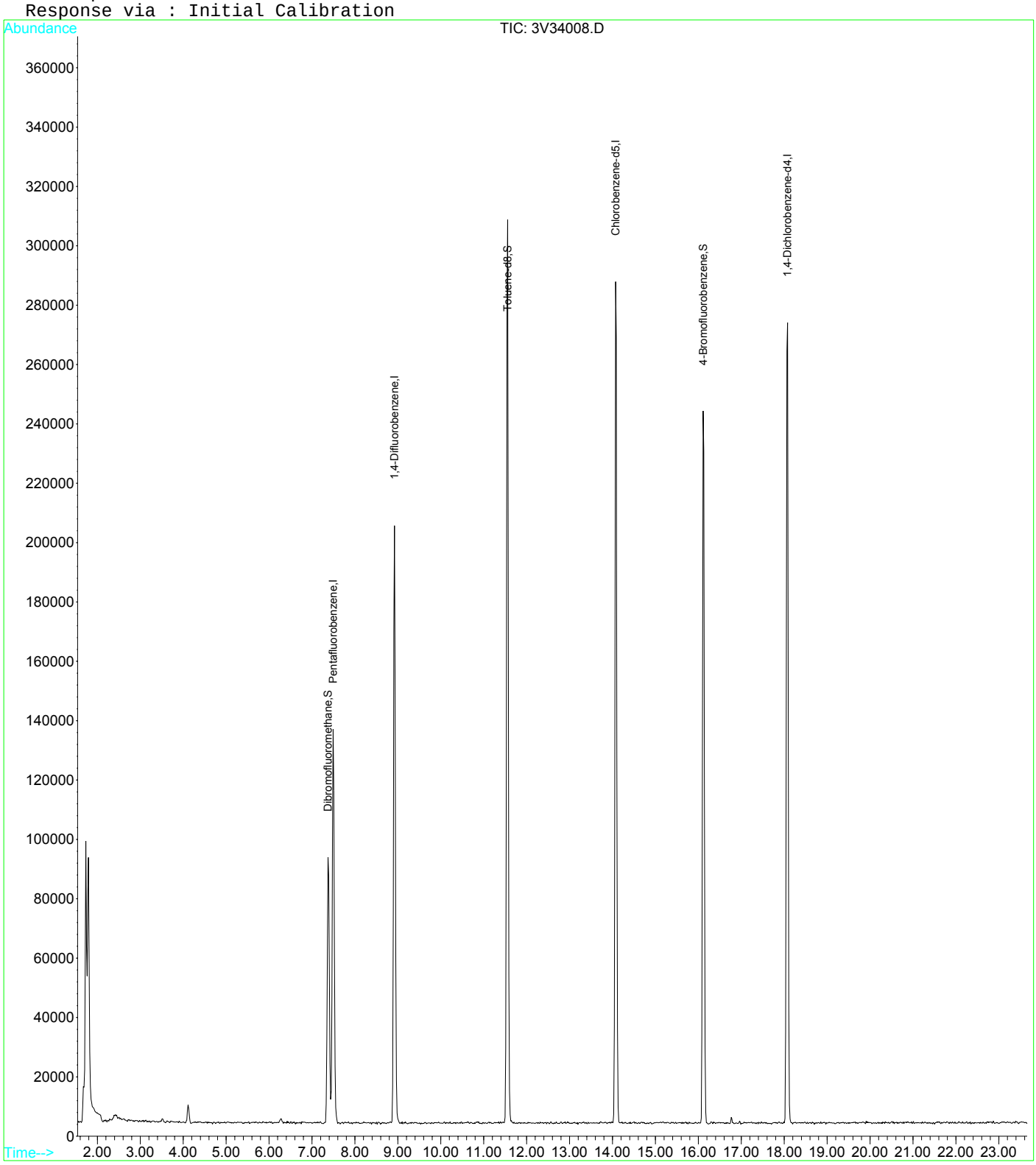
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
3V34008.D 0717WC3.M Thu Oct 11 11:40:03 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\3\DATA\10102018\3V34008.D Vial: 59
Acq On : 10 Oct 2018 22:01 Operator: omd
Sample : 8100452-11 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:38 2018 Quant Results File: 0717WC3.RES

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration



3V34008.D 0717WC3.M Thu Oct 11 11:40:03 2018 SS Page 2

15 15.2.

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-4B**
Lab Sample ID: **8100452-12**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 22:30	File ID:	3V34009.D
Init/Final Vol:	12.3 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 22:30
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	91.70	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
71-55-6	1,1,1-Trichloroethane	ND	0.000129	0.000887	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.000122	0.000887	U
76-13-1	1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	0.000379	0.000887	U
79-00-5	1,1,2-Trichloroethane	ND	0.000149	0.000887	U
75-34-3	1,1-Dichloroethane	ND	0.000129	0.000887	U
75-35-4	1,1-Dichloroethene	ND	0.000164	0.000887	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.000192	0.000887	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.000236	0.000887	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.000122	0.000887	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.000216	0.000887	U
106-93-4	1,2-Dibromoethane	ND	0.000112	0.000887	U
95-50-1	1,2-Dichlorobenzene	ND	0.000156	0.000887	U
107-06-2	1,2-Dichloroethane	ND	0.000125	0.000887	U
78-87-5	1,2-Dichloropropane	ND	0.000145	0.000887	U
541-73-1	1,3-Dichlorobenzene	ND	0.0000652	0.000887	U
106-46-7	1,4-Dichlorobenzene	ND	0.000128	0.000887	U
78-93-3	2-Butanone	ND	0.000145	0.00222	U
591-78-6	2-Hexanone	ND	0.0000829	0.000887	U
108-10-1	4-Methyl-2-pentanone	ND	0.000111	0.000887	U
67-64-1	Acetone	ND	0.000269	0.00222	U
71-43-2	Benzene	ND	0.0000807	0.000887	U
74-97-5	Bromochloromethane	ND	0.000164	0.000887	U
75-27-4	Bromodichloromethane	ND	0.000111	0.000887	U
75-25-2	Bromoform	ND	0.000156	0.000887	U
74-83-9	Bromomethane	ND	0.000256	0.000887	U
75-15-0	Carbon disulfide	ND	0.000127	0.000887	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-4B**
Lab Sample ID: **8100452-12**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 22:30	File ID:	3V34009.D
Init/Final Vol:	12.3 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 22:30
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	91.70	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
56-23-5	Carbon Tetrachloride	ND	0.000133	0.000887	U
108-90-7	Chlorobenzene	ND	0.000129	0.000887	U
124-48-1	Chlorodibromomethane	ND	0.000109	0.000887	U
75-00-3	Chloroethane	ND	0.000151	0.000887	U
67-66-3	Chloroform	ND	0.000149	0.000887	U
74-87-3	Chloromethane	ND	0.000341	0.000887	U
156-59-2	cis-1,2-Dichloroethene	ND	0.0000429	0.000887	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.000112	0.000887	U
110-82-7	Cyclohexane	ND	0.000196	0.000887	U
75-71-8	Dichlorodifluoromethane	ND	0.000299	0.000887	U
100-41-4	EthylBenzene	ND	0.000120	0.000887	U
98-82-8	Isopropylbenzene	ND	0.000139	0.000887	U
179601-23-1	m+p-Xylenes	ND	0.000224	0.00177	U
79-20-9	Methyl Acetate	ND	0.000117	0.000887	U
1634-04-4	Methyl tert-Butyl Ether	ND	0.000150	0.000887	U
108-87-2	Methylcyclohexane	ND	0.000143	0.000887	U
75-09-2	Methylene Chloride	ND	0.000266	0.000887	U
95-47-6	o-Xylene	ND	0.000114	0.000887	U
100-42-5	Styrene	ND	0.000127	0.000887	U
75-65-0	tert-Butyl alcohol	ND	0.00186	0.00887	U
127-18-4	Tetrachloroethene	ND	0.0000878	0.000887	U
108-88-3	Toluene	ND	0.0000714	0.000887	U
1330-20-7	Total Xylenes	ND	0.000114	0.000887	U
156-60-5	trans-1,2-Dichloroethene	ND	0.000120	0.000887	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.000169	0.000887	U
79-01-6	Trichloroethene	ND	0.000130	0.000887	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-4B**
Lab Sample ID: **8100452-12**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 22:30	File ID:	3V34009.D
Init/Final Vol:	12.3 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 22:30
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	91.70	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
75-69-4	Trichlorofluoromethane	ND	0.000102	0.000887	U
75-01-4	Vinyl chloride	ND	0.000168	0.000887	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-4B**
Lab Sample ID: **8100452-12**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 22:30	File ID:	3V34009.D
Init/Final Vol:	12.3 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 22:30
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	91.70	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg dry)	RT	Q

J - Indicates estimated value
B - Indicates compound found in associated blank
D - Indicates result is based on a dilution

F-I

Quantitation Report (QT/LSC Reviewed)

Data File : G:\HPCHEM\3\DATA\10102018\3V34009.D Vial: 60
Acq On : 10 Oct 2018 22:30 Operator: omd
Sample : 8100452-12 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:40 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.51	168	137633	50.00	ug/kg	0.04
33) 1,4-Difluorobenzene	8.92	114	257853	50.00	ug/kg	0.03
52) Chlorobenzene-d5	14.07	82	137391	50.00	ug/kg	0.02
74) 1,4-Dichlorobenzene-d4	18.08	152	119681	50.00	ug/kg	0.02
System Monitoring Compounds						
26) Dibromofluoromethane	7.39	113	94850	56.66	ug/kg	0.04
Spiked Amount 50.000	Range 59 - 147		Recovery = 113.32%			
43) Toluene-d8	11.56	98	307658	53.05	ug/kg	0.03
Spiked Amount 50.000	Range 66 - 134		Recovery = 106.10%			
62) 4-Bromofluorobenzene	16.11	95	138293m	59.74	ug/kg	0.02
Spiked Amount 50.000	Range 64 - 125		Recovery = 119.48%			

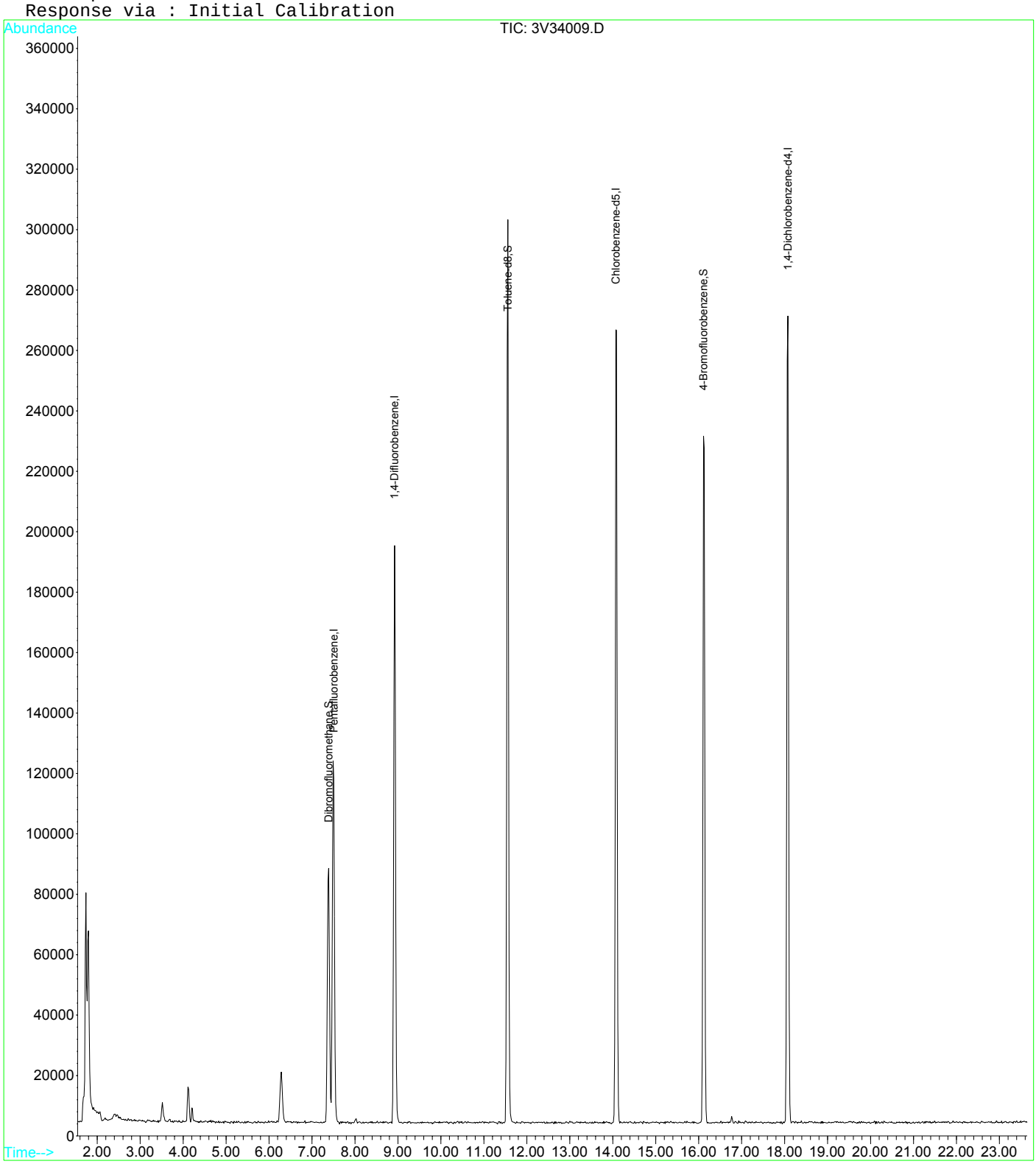
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
3V34009.D 0717WC3.M Thu Oct 11 11:40:04 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\3\DATA\10102018\3V34009.D Vial: 60
Acq On : 10 Oct 2018 22:30 Operator: omd
Sample : 8100452-12 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:40 2018 Quant Results File: 0717WC3.RES

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration



ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-7**
Lab Sample ID: **8100452-14**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 22:59	File ID:	3V34010.D
Init/Final Vol:	11.8 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 22:59
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	92.94	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
71-55-6	1,1,1-Trichloroethane	ND	0.000133	0.000912	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.000126	0.000912	U
76-13-1	1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	0.000390	0.000912	U
79-00-5	1,1,2-Trichloroethane	ND	0.000154	0.000912	U
75-34-3	1,1-Dichloroethane	ND	0.000133	0.000912	U
75-35-4	1,1-Dichloroethene	ND	0.000169	0.000912	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.000197	0.000912	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.000243	0.000912	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.000126	0.000912	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.000222	0.000912	U
106-93-4	1,2-Dibromoethane	ND	0.000115	0.000912	U
95-50-1	1,2-Dichlorobenzene	ND	0.000161	0.000912	U
107-06-2	1,2-Dichloroethane	ND	0.000129	0.000912	U
78-87-5	1,2-Dichloropropane	ND	0.000150	0.000912	U
541-73-1	1,3-Dichlorobenzene	ND	0.0000670	0.000912	U
106-46-7	1,4-Dichlorobenzene	ND	0.000131	0.000912	U
78-93-3	2-Butanone	ND	0.000149	0.00228	U
591-78-6	2-Hexanone	ND	0.0000853	0.000912	U
108-10-1	4-Methyl-2-pentanone	ND	0.000114	0.000912	U
67-64-1	Acetone	ND	0.000276	0.00228	U
71-43-2	Benzene	ND	0.0000830	0.000912	U
74-97-5	Bromochloromethane	ND	0.000168	0.000912	U
75-27-4	Bromodichloromethane	ND	0.000114	0.000912	U
75-25-2	Bromoform	ND	0.000160	0.000912	U
74-83-9	Bromomethane	ND	0.000263	0.000912	U
75-15-0	Carbon disulfide	ND	0.000131	0.000912	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-7**
Lab Sample ID: **8100452-14**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 22:59	File ID:	3V34010.D
Init/Final Vol:	11.8 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 22:59
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	92.94	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
56-23-5	Carbon Tetrachloride	ND	0.000137	0.000912	U
108-90-7	Chlorobenzene	ND	0.000132	0.000912	U
124-48-1	Chlorodibromomethane	ND	0.000112	0.000912	U
75-00-3	Chloroethane	ND	0.000155	0.000912	U
67-66-3	Chloroform	ND	0.000153	0.000912	U
74-87-3	Chloromethane	ND	0.000351	0.000912	U
156-59-2	cis-1,2-Dichloroethene	ND	0.0000441	0.000912	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.000115	0.000912	U
110-82-7	Cyclohexane	ND	0.000202	0.000912	U
75-71-8	Dichlorodifluoromethane	ND	0.000308	0.000912	U
100-41-4	EthylBenzene	ND	0.000124	0.000912	U
98-82-8	Isopropylbenzene	ND	0.000143	0.000912	U
179601-23-1	m+p-Xylenes	ND	0.000230	0.00182	U
79-20-9	Methyl Acetate	ND	0.000121	0.000912	U
1634-04-4	Methyl tert-Butyl Ether	ND	0.000154	0.000912	U
108-87-2	Methylcyclohexane	ND	0.000147	0.000912	U
75-09-2	Methylene Chloride	ND	0.000274	0.000912	U
95-47-6	o-Xylene	ND	0.000117	0.000912	U
100-42-5	Styrene	ND	0.000130	0.000912	U
75-65-0	tert-Butyl alcohol	ND	0.00191	0.00912	U
127-18-4	Tetrachloroethene	ND	0.0000903	0.000912	U
108-88-3	Toluene	ND	0.0000734	0.000912	U
1330-20-7	Total Xylenes	ND	0.000117	0.000912	U
156-60-5	trans-1,2-Dichloroethene	ND	0.000124	0.000912	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.000174	0.000912	U
79-01-6	Trichloroethene	ND	0.000134	0.000912	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-7**
Lab Sample ID: **8100452-14**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 22:59	File ID:	3V34010.D
Init/Final Vol:	11.8 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 22:59
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	92.94	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
75-69-4	Trichlorofluoromethane	ND	0.000105	0.000912	U
75-01-4	Vinyl chloride	ND	0.000173	0.000912	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-7**
Lab Sample ID: **8100452-14**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 22:59	File ID:	3V34010.D
Init/Final Vol:	11.8 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 22:59
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	92.94	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg dry)	RT	Q

J - Indicates estimated value
B - Indicates compound found in associated blank
D - Indicates result is based on a dilution

F-I

Quantitation Report (QT/LSC Reviewed)

Data File : G:\HPCHEM\3\DATA\10102018\3V34010.D Vial: 61
Acq On : 10 Oct 2018 22:59 Operator: omd
Sample : 8100452-14 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:41 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.51	168	149345	50.00	ug/kg	0.05
33) 1,4-Difluorobenzene	8.92	114	275625	50.00	ug/kg	0.03
52) Chlorobenzene-d5	14.09	82	150050	50.00	ug/kg	0.03
74) 1,4-Dichlorobenzene-d4	18.08	152	131114	50.00	ug/kg	0.02
System Monitoring Compounds						
26) Dibromofluoromethane	7.39	113	102924	56.66	ug/kg	0.05
Spiked Amount 50.000	Range 59 - 147		Recovery = 113.32%			
43) Toluene-d8	11.56	98	331966	53.55	ug/kg	0.03
Spiked Amount 50.000	Range 66 - 134		Recovery = 107.10%			
62) 4-Bromofluorobenzene	16.13	95	151194	59.80	ug/kg	0.03
Spiked Amount 50.000	Range 64 - 125		Recovery = 119.60%			

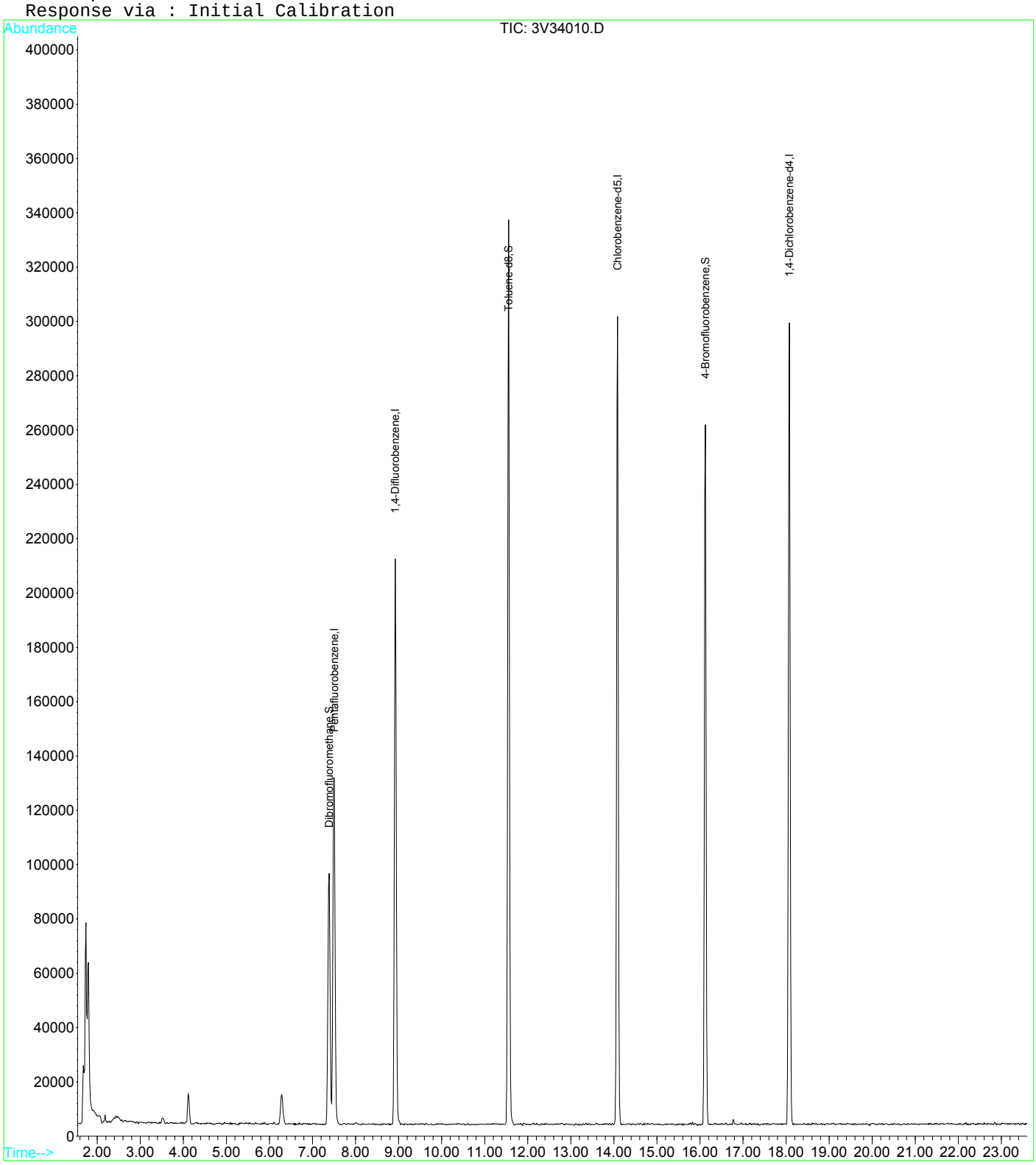
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
3V34010.D 0717WC3.M Thu Oct 11 11:40:05 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\3\DATA\10102018\3V34010.D Vial: 61
Acq On : 10 Oct 2018 22:59 Operator: omd
Sample : 8100452-14 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:41 2018 Quant Results File: 0717WC3.RES

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration



SURROGATE RECOVERIES

Analysis Class: VOLATILES

Matrix: Soil **Method:** SW 846 8260C

VO+15

Lab Number	File ID	DBF	TOL-d8	BFB
8100452-01	3V34002.D	116	106	120
8100452-02	3V34003.D	115	105	118
8100452-05	3V34004.D	115	107	114
8100452-06	3V34005.D	117	106	120
8100452-07	3V34006.D	113	106	119
8100452-08	3V34020.D	111	107	120
8100452-11	3V34008.D	111	106	120
8100452-12	3V34009.D	113	106	119
8100452-14	3V34010.D	113	107	120
B8J1111-BLK1	3V33994.D	113	105	120
B8J1111-BS1	3V33992.D	109	107	117
B8J1111-MS1	3V34013.D	109	107	121
B8J1111-MSD1	3V34014.D	113	106	120
B8J1141-BLK1	3V34019.D	109	107	117
B8J1141-BS1	3V34018.D	107	108	119
B8J1141-MS1	3V34039.D	111	113	120
B8J1141-MSD1	3V34040.D	108	114	118

Surrogate Limits		Lo Limit	Hi Limit
DBF	Dibromofluoromethane	75.2	135
TOL-d8	Toluene-d8	68.6	140
BFB	4-Bromofluorobenzene	66.9	139

F-II

* - Outside of QC Limits

Volatile Organics - GC/MS - Quality Control

Aqua Pro-Tech Laboratories

Batch B8J1111 **Method: SW 846 8260C** **Prepared: 10/10/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1111-BS1		1,1,1-Trichloroethane	253	ug/kg	200		126	55.7-146		
B8J1111-BS1		1,1,2,2-Tetrachloroethane	168	ug/kg	200		84.2	60.6-129		
B8J1111-BS1		1,1,2-Trichloro-1,2,2 Trifluoroeth	165	ug/kg	200		82.7	40.9-152		
B8J1111-BS1		1,1,2-Trichloroethane	184	ug/kg	200		91.9	79.9-125		
B8J1111-BS1		1,1-Dichloroethane	221	ug/kg	200		110	56.4-138		
B8J1111-BS1		1,1-Dichloroethene	232	ug/kg	200		116	51.9-135		
B8J1111-BS1		1,2,3-Trichlorobenzene	219	ug/kg	200		109	60-138		
B8J1111-BS1		1,2,4-Trichlorobenzene	233	ug/kg	200		116	64.8-139		
B8J1111-BS1		1,2-Dibromo-3-chloropropane	213	ug/kg	200		106	45.6-154		
B8J1111-BS1		1,2-Dibromoethane	194	ug/kg	200		97.2	73.7-130		
B8J1111-BS1		1,2-Dichlorobenzene	211	ug/kg	200		105	55.4-130		
B8J1111-BS1		1,2-Dichloroethane	253	ug/kg	200		127	53.2-151		
B8J1111-BS1		1,2-Dichloropropane	193	ug/kg	200		96.3	75.1-122		
B8J1111-BS1		1,3-Dichlorobenzene	214	ug/kg	200		107	63.4-126		
B8J1111-BS1		1,4-Dichlorobenzene	210	ug/kg	200		105	51.4-129		
B8J1111-BS1		2-Butanone	152	ug/kg	200		76.0	39.6-169		
B8J1111-BS1		2-Hexanone	165	ug/kg	200		82.5	58.6-157		
B8J1111-BS1		4-Methyl-2-pentanone	170	ug/kg	200		84.8	53.6-156		
B8J1111-BS1		Acetone	202	ug/kg	200		101	38.5-171		
B8J1111-BS1		Benzene	182	ug/kg	200		91.0	58.1-135		
B8J1111-BS1		Bromochloromethane	198	ug/kg	200		99.1	51.6-146		
B8J1111-BS1		Bromodichloromethane	165	ug/kg	200		82.7	79.8-121		
B8J1111-BS1		Bromoform	211	ug/kg	200		105	63.4-145		
B8J1111-BS1		Bromomethane	212	ug/kg	200		106	18.7-164		
B8J1111-BS1		Carbon disulfide	141	ug/kg	200		70.4	15.3-152		
B8J1111-BS1		Carbon Tetrachloride	254	ug/kg	200		127	53.4-147		
B8J1111-BS1		Chlorobenzene	205	ug/kg	200		103	66.8-122		
B8J1111-BS1		Chlorodibromomethane	153	ug/kg	200		76.4*	80.2-129		
B8J1111-BS1		Chloroethane	198	ug/kg	200		99.2	37-152		
B8J1111-BS1		Chloroform	234	ug/kg	200		117	51.8-141		
B8J1111-BS1		Chloromethane	175	ug/kg	200		87.4	33.9-139		
B8J1111-BS1		cis-1,2-Dichloroethene	225	ug/kg	200		113	57.5-140		
B8J1111-BS1		cis-1,3-Dichloropropene	211	ug/kg	200		106	80.5-120		
B8J1111-BS1		Cyclohexane	164	ug/kg	200		81.8	52.2-125		
B8J1111-BS1		Dichlorodifluoromethane	240	ug/kg	200		120	15-144		
B8J1111-BS1		EthylBenzene	213	ug/kg	200		107	63.7-119		
B8J1111-BS1		Isopropylbenzene	218	ug/kg	200		109	65.4-120		
B8J1111-BS1		m+p-Xylenes	408	ug/kg	400		102	63.5-126		
B8J1111-BS1		Methyl Acetate	158	ug/kg	200		79.1	31.8-165		
B8J1111-BS1		Methyl tert-Butyl Ether	194	ug/kg	200		97.2	64.7-151		
B8J1111-BS1		Methylcyclohexane	173	ug/kg	200		86.4	70.4-112		
B8J1111-BS1		Methylene Chloride	213	ug/kg	200		106	54.4-150		
B8J1111-BS1		o-Xylene	216	ug/kg	200		108	63.7-125		
B8J1111-BS1		Styrene	208	ug/kg	200		104	70.6-121		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

F-III

Batch B8J1111 (cont.) **Method: SW 846 8260C** **Prepared: 10/10/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1111-BS1		tert-Butyl alcohol	1830	ug/kg	2000		91.3	39.7-175		
B8J1111-BS1		Tetrachloroethene	211	ug/kg	200		105	77.9-124		
B8J1111-BS1		Toluene	196	ug/kg	200		98.1	74.8-115		
B8J1111-BS1		trans-1,2-Dichloroethene	225	ug/kg	200		113	51.7-138		
B8J1111-BS1		trans-1,3-Dichloropropene	227	ug/kg	200		114	79.7-125		
B8J1111-BS1		Trichloroethene	212	ug/kg	200		106	77.1-121		
B8J1111-BS1		Trichlorofluoromethane	187	ug/kg	200		93.6	47.2-144		
B8J1111-BS1		Vinyl chloride	215	ug/kg	200		107	44.2-137		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Batch B8J1111 (cont.) **Method: SW 846 8260C** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1111-MS1	8100261-01	1,1,1-Trichloroethane	248	ug/kg	200	0.00	124	60.7-148		
B8J1111-MS1	8100261-01	1,1,2,2-Tetrachloroethane	189	ug/kg	200	0.00	94.3	65.7-121		
B8J1111-MS1	8100261-01	1,1,2-Trichloro-1,2,2 Trifluoroeth	154	ug/kg	200	0.00	76.8	44.9-144		
B8J1111-MS1	8100261-01	1,1,2-Trichloroethane	196	ug/kg	200	0.00	98.1	80-131		
B8J1111-MS1	8100261-01	1,1-Dichloroethane	211	ug/kg	200	0.00	106	64.8-137		
B8J1111-MS1	8100261-01	1,1-Dichloroethene	220	ug/kg	200	0.00	110	56.9-127		
B8J1111-MS1	8100261-01	1,2,3-Trichlorobenzene	211	ug/kg	200	0.00	105	66.9-121		
B8J1111-MS1	8100261-01	1,2,4-Trichlorobenzene	218	ug/kg	200	0.00	109	66.5-124		
B8J1111-MS1	8100261-01	1,2-Dibromo-3-chloropropane	249	ug/kg	200	0.00	124	48.7-149		
B8J1111-MS1	8100261-01	1,2-Dibromoethane	210	ug/kg	200	0.00	105	72.2-138		
B8J1111-MS1	8100261-01	1,2-Dichlorobenzene	210	ug/kg	200	0.00	105	51.2-127		
B8J1111-MS1	8100261-01	1,2-Dichloroethane	266	ug/kg	200	0.00	133	59.7-163		
B8J1111-MS1	8100261-01	1,2-Dichloropropane	190	ug/kg	200	0.00	94.9	80.2-120		
B8J1111-MS1	8100261-01	1,3-Dichlorobenzene	209	ug/kg	200	0.00	104	56.6-125		
B8J1111-MS1	8100261-01	1,4-Dichlorobenzene	198	ug/kg	200	0.00	99.2	47.7-123		
B8J1111-MS1	8100261-01	2-Butanone	175	ug/kg	200	0.00	87.3	39.7-175		
B8J1111-MS1	8100261-01	2-Hexanone	192	ug/kg	200	0.00	95.8	49.2-166		
B8J1111-MS1	8100261-01	4-Methyl-2-pentanone	197	ug/kg	200	0.00	98.7	47.8-159		
B8J1111-MS1	8100261-01	Acetone	229	ug/kg	200	0.00	115	35.1-168		
B8J1111-MS1	8100261-01	Benzene	172	ug/kg	200	0.00	86.1	67-127		
B8J1111-MS1	8100261-01	Bromochloromethane	199	ug/kg	200	0.00	99.4	61.9-147		
B8J1111-MS1	8100261-01	Bromodichloromethane	169	ug/kg	200	0.00	84.7	80.2-125		
B8J1111-MS1	8100261-01	Bromoform	232	ug/kg	200	0.00	116	73.3-129		
B8J1111-MS1	8100261-01	Bromomethane	202	ug/kg	200	0.00	101	24.6-155		
B8J1111-MS1	8100261-01	Carbon disulfide	130	ug/kg	200	0.00	65.2	40.6-129		
B8J1111-MS1	8100261-01	Carbon Tetrachloride	244	ug/kg	200	0.00	122	59.3-142		
B8J1111-MS1	8100261-01	Chlorobenzene	195	ug/kg	200	0.00	97.7	59.3-122		
B8J1111-MS1	8100261-01	Chlorodibromomethane	164	ug/kg	200	0.00	82.1	79.8-129		
B8J1111-MS1	8100261-01	Chloroethane	191	ug/kg	200	0.00	95.4	32.7-154		
B8J1111-MS1	8100261-01	Chloroform	228	ug/kg	200	0.00	114	59.9-142		
B8J1111-MS1	8100261-01	Chloromethane	163	ug/kg	200	0.00	81.4	28.2-127		
B8J1111-MS1	8100261-01	cis-1,2-Dichloroethene	215	ug/kg	200	0.00	108	65.8-138		
B8J1111-MS1	8100261-01	cis-1,3-Dichloropropene	206	ug/kg	200	0.00	103	79-121		
B8J1111-MS1	8100261-01	Cyclohexane	148	ug/kg	200	0.00	74.2	48.8-127		
B8J1111-MS1	8100261-01	Dichlorodifluoromethane	214	ug/kg	200	0.00	107	15-151		
B8J1111-MS1	8100261-01	EthylBenzene	202	ug/kg	200	0.00	101	58-118		
B8J1111-MS1	8100261-01	Isopropylbenzene	206	ug/kg	200	0.00	103	55.7-122		
B8J1111-MS1	8100261-01	m+p-Xylenes	384	ug/kg	400	0.00	96.0	57.3-121		
B8J1111-MS1	8100261-01	Methyl Acetate	179	ug/kg	200	0.00	89.4	31.6-176		
B8J1111-MS1	8100261-01	Methyl tert-Butyl Ether	201	ug/kg	200	0.00	101	64.1-150		
B8J1111-MS1	8100261-01	Methylcyclohexane	163	ug/kg	200	0.00	81.5	52.3-121		
B8J1111-MS1	8100261-01	Methylene Chloride	185	ug/kg	200	0.00	92.5	66.4-152		
B8J1111-MS1	8100261-01	o-Xylene	211	ug/kg	200	0.00	105	57.7-122		
B8J1111-MS1	8100261-01	Styrene	200	ug/kg	200	0.00	100	61.6-125		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Batch B8J1111 (cont.) **Method: SW 846 8260C** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1111-MS1	8100261-01	tert-Butyl alcohol	2090	ug/kg	2000	0.00	104	34-171		
B8J1111-MS1	8100261-01	Tetrachloroethene	201	ug/kg	200	0.00	101	73.7-119		
B8J1111-MS1	8100261-01	Toluene	188	ug/kg	200	0.00	94.2	65.2-125		
B8J1111-MS1	8100261-01	trans-1,2-Dichloroethene	213	ug/kg	200	0.00	107	61.6-129		
B8J1111-MS1	8100261-01	trans-1,3-Dichloropropene	234	ug/kg	200	0.00	117	77-128		
B8J1111-MS1	8100261-01	Trichloroethene	201	ug/kg	200	0.00	100	75.9-117		
B8J1111-MS1	8100261-01	Trichlorofluoromethane	179	ug/kg	200	0.00	89.4	48.1-130		
B8J1111-MS1	8100261-01	Vinyl chloride	190	ug/kg	200	0.00	95.2	34.9-130		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

F-III NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Batch B8J1111 (cont.) **Method: SW 846 8260C** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1111-MSD1	8100261-01	1,1,1-Trichloroethane	243	ug/kg	200	0.00	122	60.7-148	2.07	30
B8J1111-MSD1	8100261-01	1,1,2,2-Tetrachloroethane	205	ug/kg	200	0.00	102	65.7-121	8.20	30
B8J1111-MSD1	8100261-01	1,1,2-Trichloro-1,2,2 Trifluoroeth	152	ug/kg	200	0.00	76.2	44.9-144	0.745	30
B8J1111-MSD1	8100261-01	1,1,2-Trichloroethane	207	ug/kg	200	0.00	103	80-131	5.29	30
B8J1111-MSD1	8100261-01	1,1-Dichloroethane	215	ug/kg	200	0.00	108	64.8-137	1.96	30
B8J1111-MSD1	8100261-01	1,1-Dichloroethene	218	ug/kg	200	0.00	109	56.9-127	1.26	30
B8J1111-MSD1	8100261-01	1,2,3-Trichlorobenzene	218	ug/kg	200	0.00	109	66.9-121	3.31	30
B8J1111-MSD1	8100261-01	1,2,4-Trichlorobenzene	214	ug/kg	200	0.00	107	66.5-124	1.89	30
B8J1111-MSD1	8100261-01	1,2-Dibromo-3-chloropropane	274	ug/kg	200	0.00	137	48.7-149	9.50	30
B8J1111-MSD1	8100261-01	1,2-Dibromoethane	225	ug/kg	200	0.00	113	72.2-138	7.03	30
B8J1111-MSD1	8100261-01	1,2-Dichlorobenzene	210	ug/kg	200	0.00	105	51.2-127	0.0534	30
B8J1111-MSD1	8100261-01	1,2-Dichloroethane	277	ug/kg	200	0.00	139	59.7-163	4.34	30
B8J1111-MSD1	8100261-01	1,2-Dichloropropane	191	ug/kg	200	0.00	95.5	80.2-120	0.579	30
B8J1111-MSD1	8100261-01	1,3-Dichlorobenzene	201	ug/kg	200	0.00	100	56.6-125	3.99	30
B8J1111-MSD1	8100261-01	1,4-Dichlorobenzene	199	ug/kg	200	0.00	99.4	47.7-123	0.245	30
B8J1111-MSD1	8100261-01	2-Butanone	208	ug/kg	200	0.00	104	39.7-175	17.7	30
B8J1111-MSD1	8100261-01	2-Hexanone	225	ug/kg	200	0.00	113	49.2-166	16.1	30
B8J1111-MSD1	8100261-01	4-Methyl-2-pentanone	226	ug/kg	200	0.00	113	47.8-159	13.7	30
B8J1111-MSD1	8100261-01	Acetone	260	ug/kg	200	0.00	130	35.1-168	12.5	30
B8J1111-MSD1	8100261-01	Benzene	176	ug/kg	200	0.00	88.0	67-127	2.25	30
B8J1111-MSD1	8100261-01	Bromochloromethane	209	ug/kg	200	0.00	104	61.9-147	4.83	30
B8J1111-MSD1	8100261-01	Bromodichloromethane	240	ug/kg	200	0.00	120	80.2-125	34.4*	30
B8J1111-MSD1	8100261-01	Bromoform	246	ug/kg	200	0.00	123	73.3-129	6.06	30
B8J1111-MSD1	8100261-01	Bromomethane	190	ug/kg	200	0.00	94.9	24.6-155	6.31	30
B8J1111-MSD1	8100261-01	Carbon disulfide	130	ug/kg	200	0.00	65.2	40.6-129	0.0866	30
B8J1111-MSD1	8100261-01	Carbon Tetrachloride	238	ug/kg	200	0.00	119	59.3-142	2.58	30
B8J1111-MSD1	8100261-01	Chlorobenzene	193	ug/kg	200	0.00	96.4	59.3-122	1.31	30
B8J1111-MSD1	8100261-01	Chlorodibromomethane	242	ug/kg	200	0.00	121	79.8-129	38.3*	30
B8J1111-MSD1	8100261-01	Chloroethane	187	ug/kg	200	0.00	93.4	32.7-154	2.13	30
B8J1111-MSD1	8100261-01	Chloroform	233	ug/kg	200	0.00	117	59.9-142	2.11	30
B8J1111-MSD1	8100261-01	Chloromethane	163	ug/kg	200	0.00	81.3	28.2-127	0.0971	30
B8J1111-MSD1	8100261-01	cis-1,2-Dichloroethene	220	ug/kg	200	0.00	110	65.8-138	2.02	30
B8J1111-MSD1	8100261-01	cis-1,3-Dichloropropene	209	ug/kg	200	0.00	105	79-121	1.49	30
B8J1111-MSD1	8100261-01	Cyclohexane	150	ug/kg	200	0.00	74.9	48.8-127	0.967	30
B8J1111-MSD1	8100261-01	Dichlorodifluoromethane	198	ug/kg	200	0.00	99.0	15-151	7.95	30
B8J1111-MSD1	8100261-01	EthylBenzene	198	ug/kg	200	0.00	99.0	58-118	2.23	30
B8J1111-MSD1	8100261-01	Isopropylbenzene	202	ug/kg	200	0.00	101	55.7-122	2.13	30
B8J1111-MSD1	8100261-01	m+p-Xylenes	379	ug/kg	400	0.00	94.7	57.3-121	1.43	30
B8J1111-MSD1	8100261-01	Methyl Acetate	213	ug/kg	200	0.00	107	31.6-176	17.6	30
B8J1111-MSD1	8100261-01	Methyl tert-Butyl Ether	222	ug/kg	200	0.00	111	64.1-150	9.67	30
B8J1111-MSD1	8100261-01	Methylcyclohexane	156	ug/kg	200	0.00	77.9	52.3-121	4.58	30
B8J1111-MSD1	8100261-01	Methylene Chloride	194	ug/kg	200	0.00	97.1	66.4-152	4.84	30
B8J1111-MSD1	8100261-01	o-Xylene	208	ug/kg	200	0.00	104	57.7-122	1.27	30
B8J1111-MSD1	8100261-01	Styrene	201	ug/kg	200	0.00	100	61.6-125	0.339	30

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

F-III

Batch B8J1111 (cont.) **Method: SW 846 8260C** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1111-MSD1	8100261-01	tert-Butyl alcohol	2630	ug/kg	2000	0.00	131	34-171	22.9	30
B8J1111-MSD1	8100261-01	Tetrachloroethene	192	ug/kg	200	0.00	96.1	73.7-119	4.65	30
B8J1111-MSD1	8100261-01	Toluene	185	ug/kg	200	0.00	92.5	65.2-125	1.86	30
B8J1111-MSD1	8100261-01	trans-1,2-Dichloroethene	213	ug/kg	200	0.00	106	61.6-129	0.212	30
B8J1111-MSD1	8100261-01	trans-1,3-Dichloropropene	237	ug/kg	200	0.00	119	77-128	1.54	30
B8J1111-MSD1	8100261-01	Trichloroethene	196	ug/kg	200	0.00	98.1	75.9-117	2.42	30
B8J1111-MSD1	8100261-01	Trichlorofluoromethane	250	ug/kg	200	0.00	125	48.1-130	33.4*	30
B8J1111-MSD1	8100261-01	Vinyl chloride	191	ug/kg	200	0.00	95.6	34.9-130	0.413	30

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Volatile Organics - GC/MS - Quality Control

Aqua Pro-Tech Laboratories

Batch B8J1141 **Method: SW 846 8260C** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1141-BS1		1,1,1-Trichloroethane	240	ug/kg	200		120	55.7-146		
B8J1141-BS1		1,1,2,2-Tetrachloroethane	194	ug/kg	200		97.0	60.6-129		
B8J1141-BS1		1,1,2-Trichloro-1,2,2 Trifluoroeth	155	ug/kg	200		77.3	40.9-152		
B8J1141-BS1		1,1,2-Trichloroethane	201	ug/kg	200		100	79.9-125		
B8J1141-BS1		1,1-Dichloroethane	211	ug/kg	200		106	56.4-138		
B8J1141-BS1		1,1-Dichloroethene	221	ug/kg	200		111	51.9-135		
B8J1141-BS1		1,2,3-Trichlorobenzene	231	ug/kg	200		116	60-138		
B8J1141-BS1		1,2,4-Trichlorobenzene	238	ug/kg	200		119	64.8-139		
B8J1141-BS1		1,2-Dibromo-3-chloropropane	255	ug/kg	200		127	45.6-154		
B8J1141-BS1		1,2-Dibromoethane	218	ug/kg	200		109	73.7-130		
B8J1141-BS1		1,2-Dichlorobenzene	216	ug/kg	200		108	55.4-130		
B8J1141-BS1		1,2-Dichloroethane	257	ug/kg	200		128	53.2-151		
B8J1141-BS1		1,2-Dichloropropane	193	ug/kg	200		96.7	75.1-122		
B8J1141-BS1		1,3-Dichlorobenzene	211	ug/kg	200		106	63.4-126		
B8J1141-BS1		1,4-Dichlorobenzene	210	ug/kg	200		105	51.4-129		
B8J1141-BS1		2-Butanone	194	ug/kg	200		96.8	39.6-169		
B8J1141-BS1		2-Hexanone	212	ug/kg	200		106	58.6-157		
B8J1141-BS1		4-Methyl-2-pentanone	213	ug/kg	200		107	53.6-156		
B8J1141-BS1		Acetone	238	ug/kg	200		119	38.5-171		
B8J1141-BS1		Benzene	178	ug/kg	200		88.8	58.1-135		
B8J1141-BS1		Bromochloromethane	203	ug/kg	200		102	51.6-146		
B8J1141-BS1		Bromodichloromethane	239	ug/kg	200		120	79.8-121		
B8J1141-BS1		Bromoform	235	ug/kg	200		118	63.4-145		
B8J1141-BS1		Bromomethane	193	ug/kg	200		96.3	18.7-164		
B8J1141-BS1		Carbon disulfide	134	ug/kg	200		66.9	15.3-152		
B8J1141-BS1		Carbon Tetrachloride	237	ug/kg	200		119	53.4-147		
B8J1141-BS1		Chlorobenzene	198	ug/kg	200		99.1	66.8-122		
B8J1141-BS1		Chlorodibromomethane	236	ug/kg	200		118	80.2-129		
B8J1141-BS1		Chloroethane	188	ug/kg	200		94.0	37-152		
B8J1141-BS1		Chloroform	224	ug/kg	200		112	51.8-141		
B8J1141-BS1		Chloromethane	166	ug/kg	200		82.8	33.9-139		
B8J1141-BS1		cis-1,2-Dichloroethene	218	ug/kg	200		109	57.5-140		
B8J1141-BS1		cis-1,3-Dichloropropene	216	ug/kg	200		108	80.5-120		
B8J1141-BS1		Cyclohexane	160	ug/kg	200		79.9	52.2-125		
B8J1141-BS1		Dichlorodifluoromethane	205	ug/kg	200		102	15-144		
B8J1141-BS1		EthylBenzene	205	ug/kg	200		103	63.7-119		
B8J1141-BS1		Isopropylbenzene	209	ug/kg	200		104	65.4-120		
B8J1141-BS1		m+p-Xylenes	392	ug/kg	400		98.0	63.5-126		
B8J1141-BS1		Methyl Acetate	196	ug/kg	200		98.0	31.8-165		
B8J1141-BS1		Methyl tert-Butyl Ether	207	ug/kg	200		103	64.7-151		
B8J1141-BS1		Methylcyclohexane	169	ug/kg	200		84.4	70.4-112		
B8J1141-BS1		Methylene Chloride	204	ug/kg	200		102	54.4-150		
B8J1141-BS1		o-Xylene	211	ug/kg	200		105	63.7-125		
B8J1141-BS1		Styrene	204	ug/kg	200		102	70.6-121		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

F-III

Batch B8J1141 (cont.) **Method: SW 846 8260C** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1141-BS1		tert-Butyl alcohol	2350	ug/kg	2000		117	39.7-175		
B8J1141-BS1		Tetrachloroethene	207	ug/kg	200		104	77.9-124		
B8J1141-BS1		Toluene	194	ug/kg	200		97.0	74.8-115		
B8J1141-BS1		trans-1,2-Dichloroethene	213	ug/kg	200		106	51.7-138		
B8J1141-BS1		trans-1,3-Dichloropropene	239	ug/kg	200		119	79.7-125		
B8J1141-BS1		Trichloroethene	205	ug/kg	200		103	77.1-121		
B8J1141-BS1		Trichlorofluoromethane	248	ug/kg	200		124	47.2-144		
B8J1141-BS1		Vinyl chloride	199	ug/kg	200		99.5	44.2-137		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

F-III NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Batch B8J1141 (cont.) **Method: SW 846 8260C** **Prepared: 10/12/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1141-MS1	8100452-08	1,1,1-Trichloroethane	240	ug/kg	200	0.00	120	60.7-148		
B8J1141-MS1	8100452-08	1,1,2,2-Tetrachloroethane	215	ug/kg	200	0.00	107	65.7-121		
B8J1141-MS1	8100452-08	1,1,2-Trichloro-1,2,2 Trifluoroeth	154	ug/kg	200	0.00	77.1	44.9-144		
B8J1141-MS1	8100452-08	1,1,2-Trichloroethane	230	ug/kg	200	0.00	115	80-131		
B8J1141-MS1	8100452-08	1,1-Dichloroethane	221	ug/kg	200	0.00	110	64.8-137		
B8J1141-MS1	8100452-08	1,1-Dichloroethene	220	ug/kg	200	0.00	110	56.9-127		
B8J1141-MS1	8100452-08	1,2,3-Trichlorobenzene	215	ug/kg	200	0.00	108	66.9-121		
B8J1141-MS1	8100452-08	1,2,4-Trichlorobenzene	215	ug/kg	200	0.00	107	66.5-124		
B8J1141-MS1	8100452-08	1,2-Dibromo-3-chloropropane	277	ug/kg	200	0.00	139	48.7-149		
B8J1141-MS1	8100452-08	1,2-Dibromoethane	246	ug/kg	200	0.00	123	72.2-138		
B8J1141-MS1	8100452-08	1,2-Dichlorobenzene	210	ug/kg	200	0.00	105	51.2-127		
B8J1141-MS1	8100452-08	1,2-Dichloroethane	275	ug/kg	200	0.00	138	59.7-163		
B8J1141-MS1	8100452-08	1,2-Dichloropropane	211	ug/kg	200	0.00	105	80.2-120		
B8J1141-MS1	8100452-08	1,3-Dichlorobenzene	204	ug/kg	200	0.00	102	56.6-125		
B8J1141-MS1	8100452-08	1,4-Dichlorobenzene	197	ug/kg	200	0.00	98.4	47.7-123		
B8J1141-MS1	8100452-08	2-Butanone	231	ug/kg	200	0.00	116	39.7-175		
B8J1141-MS1	8100452-08	2-Hexanone	259	ug/kg	200	0.00	130	49.2-166		
B8J1141-MS1	8100452-08	4-Methyl-2-pentanone	258	ug/kg	200	0.00	129	47.8-159		
B8J1141-MS1	8100452-08	Acetone	276	ug/kg	200	0.00	138	35.1-168		
B8J1141-MS1	8100452-08	Benzene	186	ug/kg	200	0.00	93.0	67-127		
B8J1141-MS1	8100452-08	Bromochloromethane	223	ug/kg	200	0.00	111	61.9-147		
B8J1141-MS1	8100452-08	Bromodichloromethane	254	ug/kg	200	0.00	127*	80.2-125		
B8J1141-MS1	8100452-08	Bromoform	249	ug/kg	200	0.00	124	73.3-129		
B8J1141-MS1	8100452-08	Bromomethane	169	ug/kg	200	0.00	84.6	24.6-155		
B8J1141-MS1	8100452-08	Carbon disulfide	135	ug/kg	200	0.00	67.6	40.6-129		
B8J1141-MS1	8100452-08	Carbon Tetrachloride	237	ug/kg	200	0.00	118	59.3-142		
B8J1141-MS1	8100452-08	Chlorobenzene	200	ug/kg	200	0.00	99.9	59.3-122		
B8J1141-MS1	8100452-08	Chlorodibromomethane	260	ug/kg	200	0.00	130*	79.8-129		
B8J1141-MS1	8100452-08	Chloroethane	185	ug/kg	200	0.00	92.4	32.7-154		
B8J1141-MS1	8100452-08	Chloroform	233	ug/kg	200	0.00	117	59.9-142		
B8J1141-MS1	8100452-08	Chloromethane	168	ug/kg	200	0.00	84.0	28.2-127		
B8J1141-MS1	8100452-08	cis-1,2-Dichloroethene	222	ug/kg	200	0.00	111	65.8-138		
B8J1141-MS1	8100452-08	cis-1,3-Dichloropropene	230	ug/kg	200	0.00	115	79-121		
B8J1141-MS1	8100452-08	Cyclohexane	161	ug/kg	200	0.00	80.7	48.8-127		
B8J1141-MS1	8100452-08	Dichlorodifluoromethane	188	ug/kg	200	0.00	93.9	15-151		
B8J1141-MS1	8100452-08	EthylBenzene	201	ug/kg	200	0.00	101	58-118		
B8J1141-MS1	8100452-08	Isopropylbenzene	203	ug/kg	200	0.00	101	55.7-122		
B8J1141-MS1	8100452-08	m+p-Xylenes	387	ug/kg	400	0.00	96.8	57.3-121		
B8J1141-MS1	8100452-08	Methyl Acetate	235	ug/kg	200	0.00	117	31.6-176		
B8J1141-MS1	8100452-08	Methyl tert-Butyl Ether	227	ug/kg	200	0.00	113	64.1-150		
B8J1141-MS1	8100452-08	Methylcyclohexane	173	ug/kg	200	0.00	86.7	52.3-121		
B8J1141-MS1	8100452-08	Methylene Chloride	204	ug/kg	200	0.00	102	66.4-152		
B8J1141-MS1	8100452-08	o-Xylene	207	ug/kg	200	0.00	104	57.7-122		
B8J1141-MS1	8100452-08	Styrene	204	ug/kg	200	0.00	102	61.6-125		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Batch B8J1141 (cont.) **Method: SW 846 8260C** **Prepared: 10/12/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1141-MS1	8100452-08	tert-Butyl alcohol	2900	ug/kg	2000	0.00	145	34-171		
B8J1141-MS1	8100452-08	Tetrachloroethene	205	ug/kg	200	0.00	103	73.7-119		
B8J1141-MS1	8100452-08	Toluene	204	ug/kg	200	0.00	102	65.2-125		
B8J1141-MS1	8100452-08	trans-1,2-Dichloroethene	217	ug/kg	200	0.00	109	61.6-129		
B8J1141-MS1	8100452-08	trans-1,3-Dichloropropene	258	ug/kg	200	0.00	129*	77-128		
B8J1141-MS1	8100452-08	Trichloroethene	214	ug/kg	200	0.00	107	75.9-117		
B8J1141-MS1	8100452-08	Trichlorofluoromethane	241	ug/kg	200	0.00	120	48.1-130		
B8J1141-MS1	8100452-08	Vinyl chloride	192	ug/kg	200	0.00	96.2	34.9-130		

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NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Batch B8J1141 (cont.) **Method: SW 846 8260C** **Prepared: 10/12/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1141-MSD1	8100452-08	1,1,1-Trichloroethane	234	ug/kg	200	0.00	117	60.7-148	2.60	30
B8J1141-MSD1	8100452-08	1,1,2,2-Tetrachloroethane	179	ug/kg	200	0.00	89.7	65.7-121	18.0	30
B8J1141-MSD1	8100452-08	1,1,2-Trichloro-1,2,2 Trifluoroeth	151	ug/kg	200	0.00	75.4	44.9-144	2.27	30
B8J1141-MSD1	8100452-08	1,1,2-Trichloroethane	201	ug/kg	200	0.00	101	80-131	13.3	30
B8J1141-MSD1	8100452-08	1,1-Dichloroethane	213	ug/kg	200	0.00	106	64.8-137	3.65	30
B8J1141-MSD1	8100452-08	1,1-Dichloroethene	215	ug/kg	200	0.00	107	56.9-127	2.48	30
B8J1141-MSD1	8100452-08	1,2,3-Trichlorobenzene	200	ug/kg	200	0.00	100	66.9-121	7.04	30
B8J1141-MSD1	8100452-08	1,2,4-Trichlorobenzene	206	ug/kg	200	0.00	103	66.5-124	4.22	30
B8J1141-MSD1	8100452-08	1,2-Dibromo-3-chloropropane	224	ug/kg	200	0.00	112	48.7-149	21.4	30
B8J1141-MSD1	8100452-08	1,2-Dibromoethane	214	ug/kg	200	0.00	107	72.2-138	13.9	30
B8J1141-MSD1	8100452-08	1,2-Dichlorobenzene	201	ug/kg	200	0.00	101	51.2-127	4.30	30
B8J1141-MSD1	8100452-08	1,2-Dichloroethane	248	ug/kg	200	0.00	124	59.7-163	10.3	30
B8J1141-MSD1	8100452-08	1,2-Dichloropropane	200	ug/kg	200	0.00	100	80.2-120	5.26	30
B8J1141-MSD1	8100452-08	1,3-Dichlorobenzene	192	ug/kg	200	0.00	96.1	56.6-125	5.75	30
B8J1141-MSD1	8100452-08	1,4-Dichlorobenzene	193	ug/kg	200	0.00	96.3	47.7-123	2.13	30
B8J1141-MSD1	8100452-08	2-Butanone	180	ug/kg	200	0.00	89.8	39.7-175	25.2	30
B8J1141-MSD1	8100452-08	2-Hexanone	199	ug/kg	200	0.00	99.6	49.2-166	26.1	30
B8J1141-MSD1	8100452-08	4-Methyl-2-pentanone	207	ug/kg	200	0.00	104	47.8-159	21.9	30
B8J1141-MSD1	8100452-08	Acetone	212	ug/kg	200	0.00	106	35.1-168	26.1	30
B8J1141-MSD1	8100452-08	Benzene	180	ug/kg	200	0.00	90.2	67-127	3.06	30
B8J1141-MSD1	8100452-08	Bromochloromethane	205	ug/kg	200	0.00	102	61.9-147	8.29	30
B8J1141-MSD1	8100452-08	Bromodichloromethane	238	ug/kg	200	0.00	119	80.2-125	6.29	30
B8J1141-MSD1	8100452-08	Bromoform	210	ug/kg	200	0.00	105	73.3-129	16.7	30
B8J1141-MSD1	8100452-08	Bromomethane	193	ug/kg	200	0.00	96.3	24.6-155	13.0	30
B8J1141-MSD1	8100452-08	Carbon disulfide	132	ug/kg	200	0.00	66.2	40.6-129	2.20	30
B8J1141-MSD1	8100452-08	Carbon Tetrachloride	229	ug/kg	200	0.00	115	59.3-142	3.20	30
B8J1141-MSD1	8100452-08	Chlorobenzene	192	ug/kg	200	0.00	96.1	59.3-122	3.91	30
B8J1141-MSD1	8100452-08	Chlorodibromomethane	233	ug/kg	200	0.00	117	79.8-129	10.7	30
B8J1141-MSD1	8100452-08	Chloroethane	187	ug/kg	200	0.00	93.3	32.7-154	0.897	30
B8J1141-MSD1	8100452-08	Chloroform	221	ug/kg	200	0.00	111	59.9-142	5.42	30
B8J1141-MSD1	8100452-08	Chloromethane	170	ug/kg	200	0.00	84.8	28.2-127	0.960	30
B8J1141-MSD1	8100452-08	cis-1,2-Dichloroethene	215	ug/kg	200	0.00	107	65.8-138	3.30	30
B8J1141-MSD1	8100452-08	cis-1,3-Dichloropropene	214	ug/kg	200	0.00	107	79-121	7.26	30
B8J1141-MSD1	8100452-08	Cyclohexane	157	ug/kg	200	0.00	78.7	48.8-127	2.51	30
B8J1141-MSD1	8100452-08	Dichlorodifluoromethane	196	ug/kg	200	0.00	98.1	15-151	4.36	30
B8J1141-MSD1	8100452-08	EthylBenzene	196	ug/kg	200	0.00	97.8	58-118	2.87	30
B8J1141-MSD1	8100452-08	Isopropylbenzene	197	ug/kg	200	0.00	98.7	55.7-122	2.75	30
B8J1141-MSD1	8100452-08	m+p-Xylenes	375	ug/kg	400	0.00	93.9	57.3-121	3.04	30
B8J1141-MSD1	8100452-08	Methyl Acetate	184	ug/kg	200	0.00	91.9	31.6-176	24.3	30
B8J1141-MSD1	8100452-08	Methyl tert-Butyl Ether	201	ug/kg	200	0.00	101	64.1-150	12.0	30
B8J1141-MSD1	8100452-08	Methylcyclohexane	173	ug/kg	200	0.00	86.3	52.3-121	0.469	30
B8J1141-MSD1	8100452-08	Methylene Chloride	193	ug/kg	200	0.00	96.6	66.4-152	5.46	30
B8J1141-MSD1	8100452-08	o-Xylene	202	ug/kg	200	0.00	101	57.7-122	2.61	30
B8J1141-MSD1	8100452-08	Styrene	194	ug/kg	200	0.00	96.8	61.6-125	5.28	30

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Batch B8J1141 (cont.) **Method: SW 846 8260C** **Prepared: 10/12/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1141-MSD1	8100452-08	tert-Butyl alcohol	2130	ug/kg	2000	0.00	106	34-171	30.5*	30
B8J1141-MSD1	8100452-08	Tetrachloroethene	201	ug/kg	200	0.00	101	73.7-119	2.14	30
B8J1141-MSD1	8100452-08	Toluene	199	ug/kg	200	0.00	99.6	65.2-125	2.13	30
B8J1141-MSD1	8100452-08	trans-1,2-Dichloroethene	211	ug/kg	200	0.00	105	61.6-129	3.17	30
B8J1141-MSD1	8100452-08	trans-1,3-Dichloropropene	234	ug/kg	200	0.00	117	77-128	9.66	30
B8J1141-MSD1	8100452-08	Trichloroethene	208	ug/kg	200	0.00	104	75.9-117	2.59	30
B8J1141-MSD1	8100452-08	Trichlorofluoromethane	243	ug/kg	200	0.00	121	48.1-130	0.692	30
B8J1141-MSD1	8100452-08	Vinyl chloride	195	ug/kg	200	0.00	97.5	34.9-130	1.30	30

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

VOLATILE METHOD BLANK SUMMARY

Batch ID: **B8J1111** **Instrument:** GCMS-3

Sequence ID: S8J1704

Lab Number	Sample ID	Analyzed	File ID
B8J1111-BLK1	BLK1	10/10/2018 15:02	3V33994.D
B8J1111-BS1	BS1	10/10/2018 14:03	3V33992.D
B8J1111-MS1	MS1	10/11/2018 0:28	3V34013.D
B8J1111-MSD1	MSD1	10/11/2018 0:57	3V34014.D
8100452-01	NTP-1A	10/10/2018 18:59	3V34002.D
8100452-02	NTP-2A	10/10/2018 19:28	3V34003.D
8100452-05	NTP-4B	10/10/2018 19:58	3V34004.D
8100452-06	NTP-6	10/10/2018 20:28	3V34005.D
8100452-07	NTP-7	10/10/2018 21:02	3V34006.D
8100452-11	STP-4A	10/10/2018 22:01	3V34008.D
8100452-12	STP-4B	10/10/2018 22:30	3V34009.D
8100452-14	STP-7	10/10/2018 22:59	3V34010.D

Batch ID: **B8J1141** **Instrument:** GCMS-3

Sequence ID: S8J1706

Lab Number	Sample ID	Analyzed	File ID
B8J1141-BLK1	BLK1	10/11/2018 13:05	3V34019.D
B8J1141-BS1	BS1	10/11/2018 12:35	3V34018.D
B8J1141-MS1	MS1	10/12/2018 1:37	3V34039.D
B8J1141-MSD1	MSD1	10/12/2018 2:06	3V34040.D
8100452-08	STP-1B	10/11/2018 13:34	3V34020.D

INSTRUMENT PERFORMANCE CHECK

Client:	Peak Environmental	Work Order:	8100452
Instrument ID:	GCMS-3	Project:	Ridgewood
Sequence:	S8G2901		

Lab Sample ID:	**S8G2901-TUN1**	Injection Date:	07/17/2018	Injection Time:	11:46
Lab File ID:	3V32663.D				

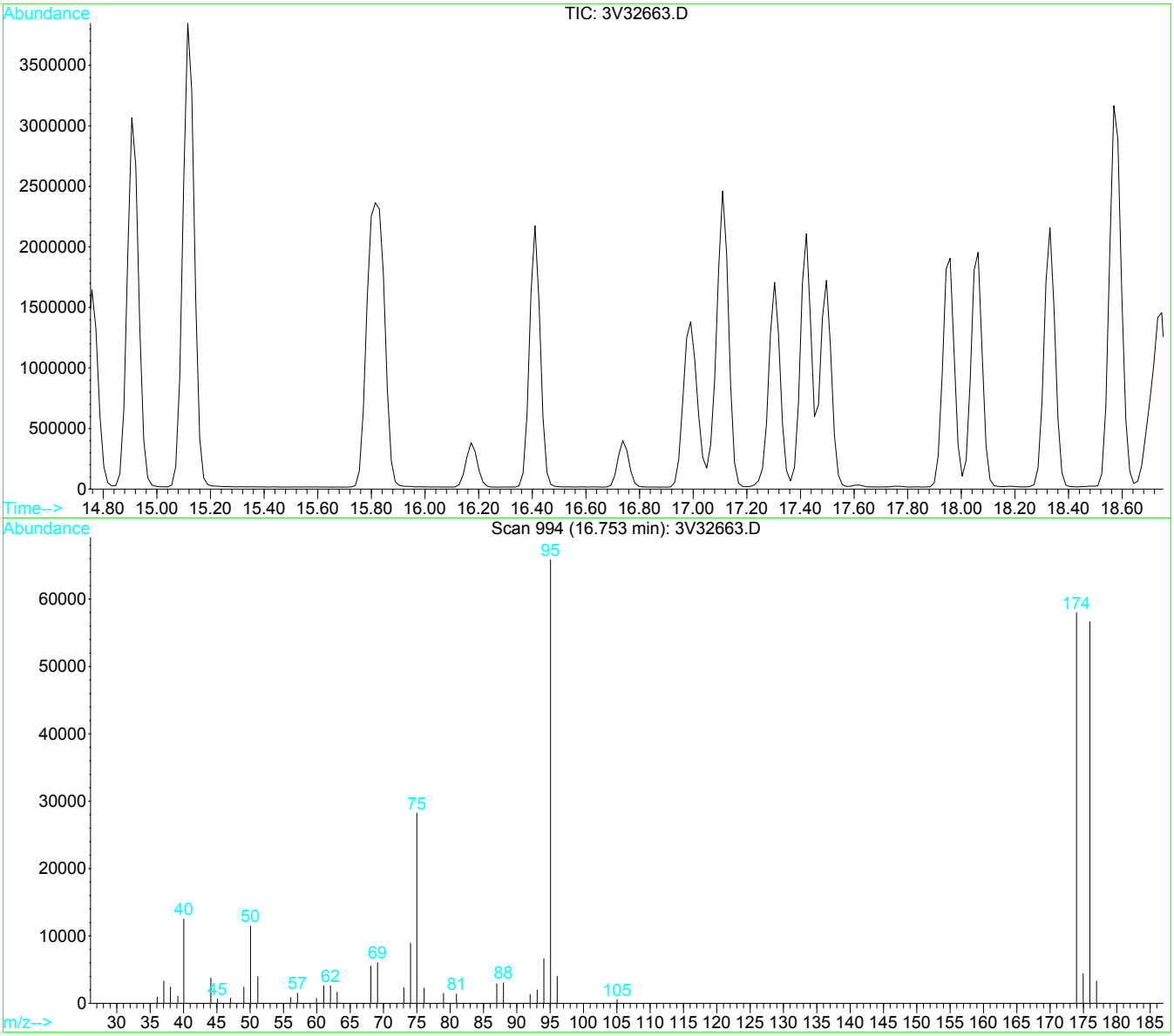
m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
50	15 - 40% of 95	17.4	PASS
75	30 - 60% of 95	42.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.08	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	88.1	PASS
175	5 - 9% of 174	7.58	PASS
176	95 - 101% of 174	97.7	PASS
177	5 - 9% of 176	5.82	PASS

Samples Associated with Tune

Client ID or QC Type	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Cal Standard	S8G2901-CAL1	3V32673.D	07/17/2018	17:55.00
Cal Standard	S8G2901-CAL2	3V32674.D	07/17/2018	18:24.00
Cal Standard	S8G2901-CAL3	3V32675.D	07/17/2018	18:53.00
Cal Standard	S8G2901-CAL4	3V32676.D	07/17/2018	19:21.00
Cal Standard	S8G2901-CAL5	3V32677.D	07/17/2018	19:50.00
Cal Standard	S8G2901-CAL6	3V32678.D	07/17/2018	20:18.00
Cal Standard	S8G2901-CAL7	3V32679.D	07/17/2018	20:47.00

F-V

Data File : G:\HPCHEM\3\DATA\07172018\3V32663.D Vial: 50
Acq On : 17 Jul 2018 11:46 Operator: omd
Sample : SEQ-TUN Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C



Spectrum Information: Scan 994

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.4	11466	PASS
75	95	30	60	42.9	28256	PASS
95	95	100	100	100.0	65848	PASS
96	95	5	9	6.1	4006	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	88.1	58000	PASS
175	174	5	9	7.6	4395	PASS
176	174	95	101	97.7	56664	PASS
177	176	5	9	5.8	3296	PASS

3V32663.D 0717WC3.M Thu Aug 16 14:04:49 2018 SS

INSTRUMENT PERFORMANCE CHECK

Client:	Peak Environmental	Work Order:	8100452
Instrument ID:	GCMS-3	Project:	Ridgewood
Sequence:	S8J1704		

Lab Sample ID:	**S8J1704-TUN1**	Injection Date:	10/10/2018	Injection Time:	12:59
Lab File ID:	3V33990.D				

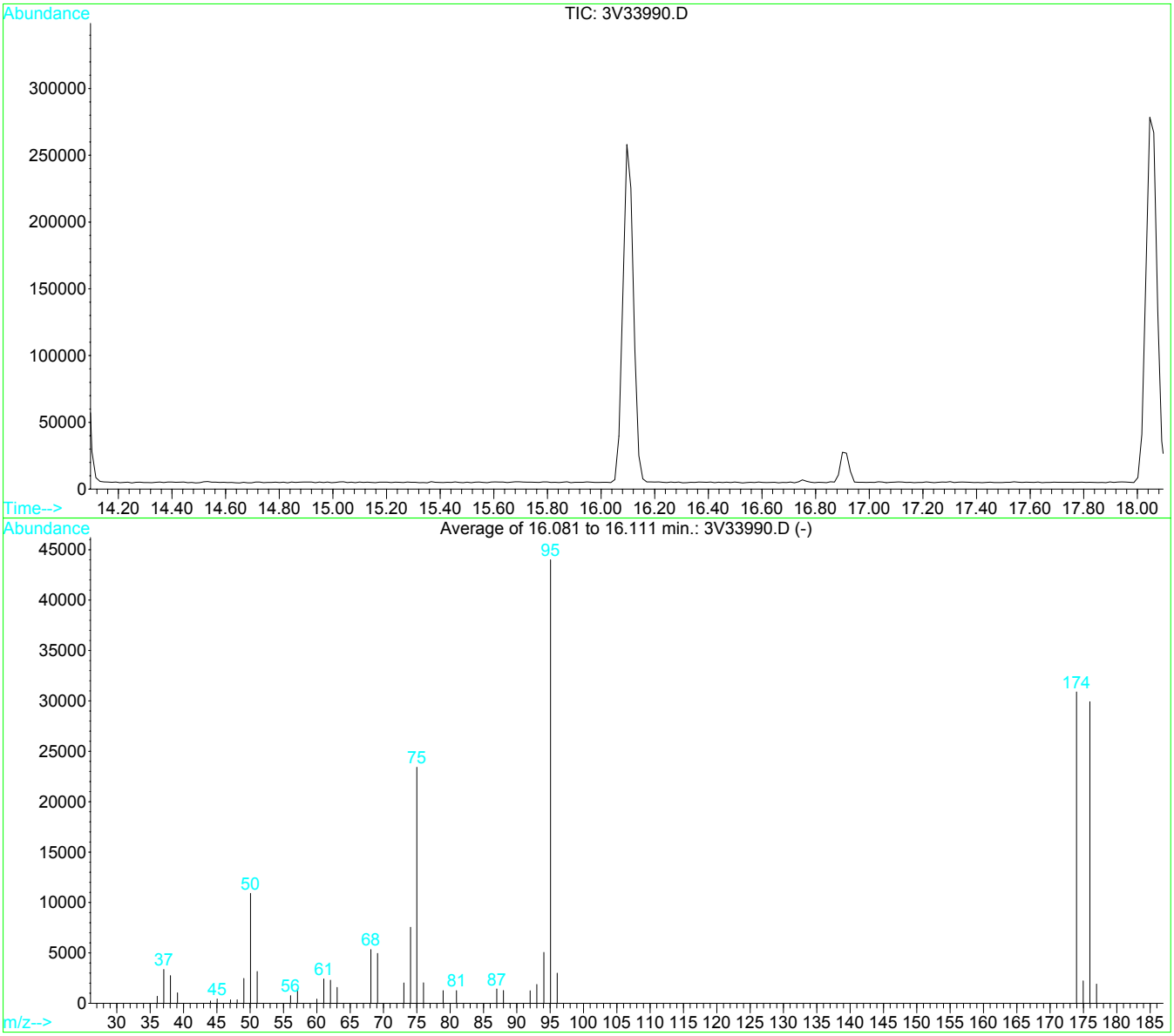
m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
50	15 - 40% of 95	24.8	PASS
75	30 - 60% of 95	53.2	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.8	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	70.2	PASS
175	5 - 9% of 174	7.22	PASS
176	95 - 101% of 174	96.9	PASS
177	5 - 9% of 176	6.38	PASS

Samples Associated with Tune

Client ID or QC Type	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Calibration Check	S8J1704-CCV1	3V33991.D	10/10/2018	13:33.00
LCS	B8J1111-BS1	3V33992.D	10/10/2018	14:03.00
Blank	B8J1111-BLK1	3V33994.D	10/10/2018	15:02.00
NTP-1A	8100452-01	3V34002.D	10/10/2018	18:59.00
NTP-2A	8100452-02	3V34003.D	10/10/2018	19:28.00
NTP-4B	8100452-05	3V34004.D	10/10/2018	19:58.00
NTP-6	8100452-06	3V34005.D	10/10/2018	20:28.00
NTP-7	8100452-07	3V34006.D	10/10/2018	21:02.00
STP-4A	8100452-11	3V34008.D	10/10/2018	22:01.00
STP-4B	8100452-12	3V34009.D	10/10/2018	22:30.00
STP-7	8100452-14	3V34010.D	10/10/2018	22:59.00
Matrix Spike	B8J1111-MS1	3V34013.D	10/11/2018	0:28.00
Matrix Spike Dup	B8J1111-MSD1	3V34014.D	10/11/2018	0:57.00

F-V

Data File : G:\HPCHEM\3\DATA\10102018\3V33990.D Vial: 41
Acq On : 10 Oct 2018 12:59 Operator: omd
Sample : SEQ-TUN Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C



Spectrum Information: Average of 16.081 to 16.111 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.8	10911	PASS
75	95	30	60	53.2	23416	PASS
95	95	100	100	100.0	44005	PASS
96	95	5	9	6.8	2994	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	70.2	30888	PASS
175	174	5	9	7.2	2231	PASS
176	174	95	101	96.9	29928	PASS
177	176	5	9	6.4	1909	PASS

3V33990.D 0717WC3.M Wed Oct 17 12:05:02 2018 SS

INSTRUMENT PERFORMANCE CHECK

Client:	Peak Environmental	Work Order:	8100452
Instrument ID:	GCMS-3	Project:	Ridgewood
Sequence:	S8J1706		

Lab Sample ID:	**S8J1706-TUN1**	Injection Date:	10/11/2018	Injection Time:	11:36
Lab File ID:	3V34016.D				

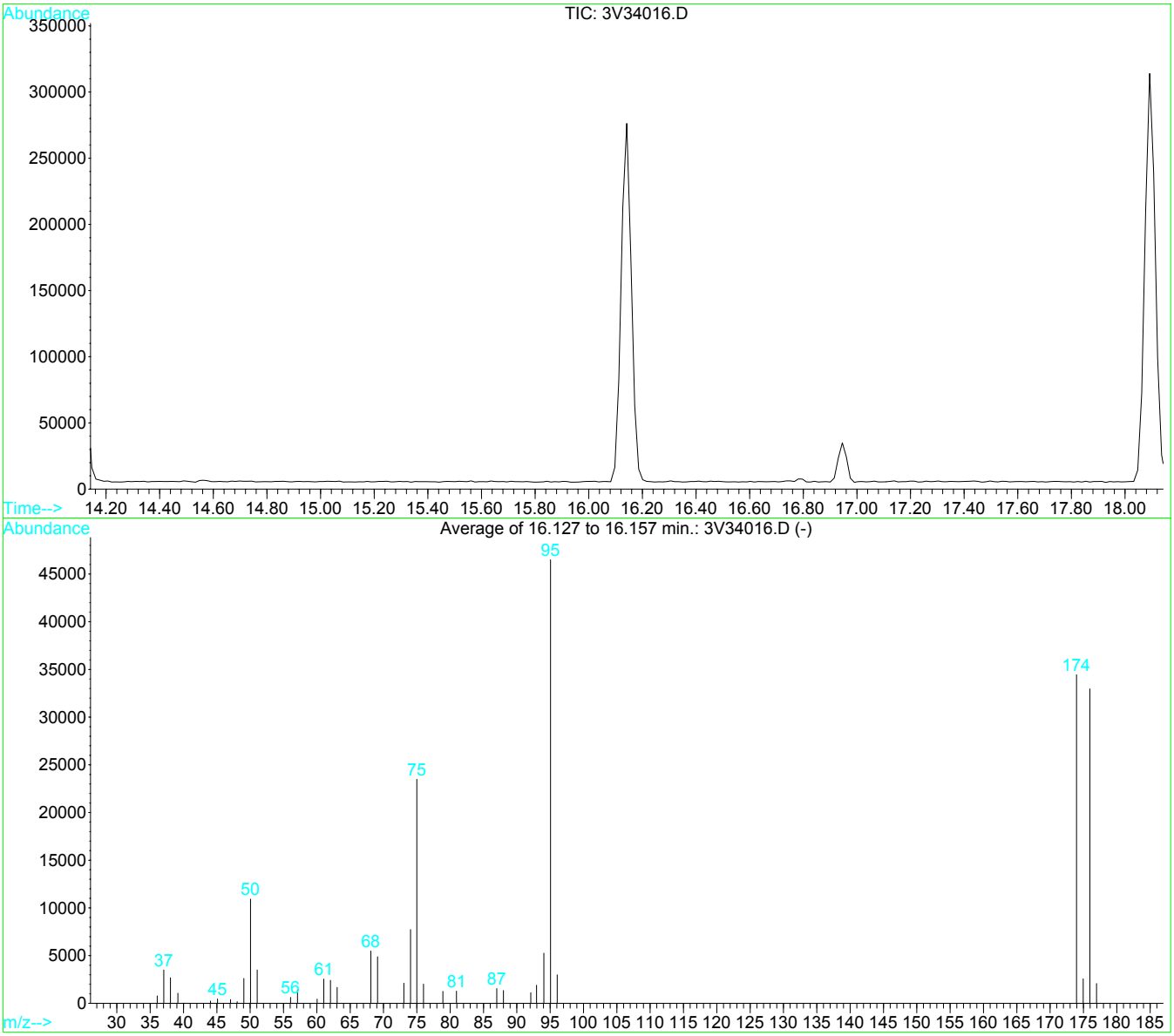
m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
50	15 - 40% of 95	23.5	PASS
75	30 - 60% of 95	50.5	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.43	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	74.1	PASS
175	5 - 9% of 174	7.47	PASS
176	95 - 101% of 174	95.7	PASS
177	5 - 9% of 176	6.31	PASS

Samples Associated with Tune

Client ID or QC Type	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Calibration Check	S8J1706-CCV1	3V34017.D	10/11/2018	12:06.00
LCS	B8J1141-BS1	3V34018.D	10/11/2018	12:35.00
Blank	B8J1141-BLK1	3V34019.D	10/11/2018	13:05.00
STP-1B	8100452-08	3V34020.D	10/11/2018	13:34.00
Matrix Spike	B8J1141-MS1	3V34039.D	10/12/2018	1:37.00
Matrix Spike Dup	B8J1141-MSD1	3V34040.D	10/12/2018	2:06.00

F-V

Data File : G:\HPCHEM\3\DATA\10112018\3V34016.D Vial: 71
Acq On : 11 Oct 2018 11:36 Operator: omd
Sample : SEQ-TUN Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C



AutoFind: Scans 979, 980, 981; Background Corrected with Scan 974

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.5	10925	PASS
75	95	30	60	50.5	23488	PASS
95	95	100	100	100.0	46496	PASS
96	95	5	9	6.4	2988	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	74.1	34440	PASS
175	174	5	9	7.5	2571	PASS
176	174	95	101	95.7	32968	PASS
177	176	5	9	6.3	2079	PASS

3V34016.D 0717WC3.M Wed Oct 17 12:24:55 2018 SS

Response Factor Report GCMS-3

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Sun Jul 29 14:39:15 2018
Response via : Initial Calibration

Calibration Files
2 =3V32673.D 5 =3V32674.D 40 =3V32675.D
80 =3V32676.D 200 =3V32678.D 400 =3V32679.D

		Compound	2	5	40	80	200	400	Avg	%RSD
1)	I	Pentafluorobenzene	----------	ISTD	----------					
2)		Dichlorodifluoromet	0.237	0.311	0.343	0.326	0.299	0.297	0.301	11.10
3)	P	Chloromethane	0.441	0.436	0.469	0.458	0.449	0.447	0.446	3.29
4)		Acrolein			0.025	0.025	0.035	0.024	0.027	17.67
5)	C	Vinyl Chloride	0.325	0.451	0.468	0.467	0.457	0.460	0.437	11.69
6)		Bromomethane	0.279	0.290	0.302	0.298	0.232	0.200	0.269	14.28
7)		Chloroethane	0.229	0.306	0.339	0.351	0.311	0.291	0.307	13.03
8)		Trichlorofluorometh	0.519	0.589	0.599	0.595	0.583	0.586	0.576	4.86
9)		1,1,2-Trichloro-1,2	0.441	0.467	0.490	0.489	0.487	0.490	0.475	4.05
10)		Acetone		0.113	0.142	0.130	0.168	0.112	0.131	16.20
11)	C	1,1-Dichloroethene	0.638	0.677	0.706	0.704	0.703	0.706	0.686	3.82
12)		tert-Butyl Alcohol	0.031	0.026	0.041	0.037	0.051	0.033	0.036	22.13
13)		Methyl Acetate	0.242	0.257	0.341	0.310	0.398	0.274	0.302	17.84
14)		Methylene Chloride	2.466	1.205	0.545	0.522	0.482	0.455	0.877	85.53
15)		Carbon Disulfide	1.630	1.752	1.774	1.771	1.772	1.807	1.740	3.67
16)		Acrylonitrile		0.053	0.140	0.142	0.182	0.125	0.129	32.84
17)		Methyl tert-Butyl E	0.976	0.988	1.147	1.115	1.236	1.068	1.084	8.40
18)		trans-1,2-Dichloroe	0.526	0.617	0.676	0.677	0.663	0.680	0.639	8.66
19)	P	1,1-Dichloroethane	0.697	0.726	0.809	0.810	0.821	0.815	0.779	6.30
20)		Vinyl Acetate							0.000	-1.00
21)		2-Butanone		0.152	0.228	0.208	0.267	0.176	0.204	19.76
22)		2,2-Dichloropropane	0.464	0.566	0.609	0.611	0.614	0.620	0.580	9.48
23)		cis-1,2-Dichloroeth	0.580	0.695	0.766	0.770	0.781	0.775	0.728	9.92
24)	C	Chloroform	0.702	0.723	0.784	0.771	0.772	0.761	0.747	4.28
25)		Bromochloromethane	0.316	0.360	0.411	0.405	0.416	0.389	0.383	9.21
26)	S	Dibromofluoromethan	0.602	0.604	0.613	0.606	0.605	0.605	0.608	1.11
27)		Cyclohexane	0.678	0.805	0.810	0.814	0.805	0.820	0.786	6.39
28)		1,1,1-Trichloroetha	0.486	0.587	0.618	0.621	0.623	0.621	0.592	8.32
29)		1,1-Dichloropropene	0.453	0.590	0.610	0.599	0.607	0.608	0.577	9.78
30)		Carbon Tetrachlorid	0.500	0.518	0.551	0.546	0.546	0.555	0.534	3.95
31)		1,2-Dichloroethane	0.454	0.485	0.557	0.545	0.612	0.546	0.531	9.65
32)		Benzene	1.543	1.653	1.751	1.711	1.737	1.786	1.686	5.07
33)	I	1,4-Difluorobenzene	----------	ISTD	----------					
34)		Trichloroethene	0.203	0.213	0.238	0.243	0.240	0.242	0.230	6.91
35)		Methylcyclohexane	0.358	0.395	0.413	0.413	0.415	0.422	0.401	5.43
36)	C	1,2-Dichloropropane	0.185	0.228	0.237	0.241	0.248	0.240	0.230	9.15
37)		Bromodichloromethan	0.288	0.302	0.318	0.320	0.326	0.314	0.309	4.34
38)		p-Dioxane							0.000	-1.00
39)		Dibromomethane		0.109	0.133	0.132	0.145	0.125	0.128	9.30
40)		2-Chloroethylvinyl		0.085	0.126	0.123	0.144	0.116	0.118	16.38
41)		4-Methyl-2-Pentanon	0.206	0.179	0.248	0.230	0.287	0.204	0.224	15.67
42)		cis-1,3-Dichloropro	0.321	0.354	0.384	0.387	0.406	0.390	0.372	7.66
43)	S	Toluene-d8	1.117	1.137	1.109	1.126	1.127	1.136	1.125	0.90
44)	C	Toluene	0.857	0.910	0.947	0.955	0.960	0.943	0.923	4.21
45)		trans-1,3-Dichlorop	0.293	0.284	0.346	0.336	0.367	0.333	0.325	9.01
46)		1,1,2-Trichloroetha	0.165	0.162	0.190	0.181	0.202	0.171	0.178	8.13
47)		2-Hexanone	0.131	0.128	0.185	0.168	0.215	0.149	0.162	19.06
48)		1,3-Dichloropropane	0.319	0.282	0.330	0.326	0.355	0.312	0.319	6.97
49)		Tetrachloroethene	0.202	0.224	0.240	0.239	0.237	0.242	0.229	6.33
50)		Dibromochloromethan	0.179	0.202	0.229	0.228	0.244	0.219	0.217	9.68
51)		1,2-Dibromoethane	0.156	0.157	0.189	0.183	0.209	0.170	0.177	10.58
52)	I	Chlorobenzene-d5	----------	ISTD	----------					
53)	C	Chlorobenzene	1.141	1.083	1.158	1.113	1.162	1.126	1.120	3.56
54)		1,1,1,2-Tetrachloro	0.351	0.373	0.415	0.402	0.410	0.382	0.387	5.98
55)	C	Ethylbenzene	1.865	1.981	2.071	2.010	2.056	1.975	1.980	3.84
56)		m+p-Xylenes	0.680	0.725	0.773	0.742	0.753	0.714	0.726	4.50
57)		o-Xylene	1.433	1.501	1.622	1.553	1.595	1.527	1.531	4.26

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report GCMS-3

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Sun Jul 29 14:39:15 2018
Response via : Initial Calibration

Calibration Files
2 =3V32673.D 5 =3V32674.D 40 =3V32675.D
80 =3V32676.D 200 =3V32678.D 400 =3V32679.D

		Compound	2	5	40	80	200	400	Avg	%RSD
58)		Styrene	1.089	1.177	1.260	1.242	1.263	1.199	1.200	5.16
59)		Isopropylbenzene	1.738	1.868	1.969	1.905	1.979	1.917	1.883	4.63
60)	P	Bromoform	0.259	0.224	0.285	0.264	0.307	0.244	0.262	10.49
61)	P	1,1,2,2-Tetrachloro	0.432	0.425	0.521	0.457	0.552	0.420	0.463	11.19
62)	S	4-Bromofluorobenzen	0.852	0.853	0.857	0.821	0.860	0.823	0.842	1.98
63)		1,2,3-Trichloroprop		0.103	0.139	0.123	0.151	0.108	0.123	15.22
64)		n-Propylbenzene	2.345	2.462	2.495	2.440	2.521	2.409	2.431	2.84
65)		Bromobenzene	0.756	0.704	0.799	0.763	0.823	0.749	0.761	5.30
66)		2-Chlorotoluene	1.302	1.306	1.417	1.354	1.407	1.351	1.349	3.61
67)		4-Chlorotoluene	1.402	1.529	1.659	1.603	1.644	1.561	1.560	5.61
68)		1,3,5-Trimethylbenz	1.423	1.481	1.598	1.543	1.583	1.545	1.524	4.03
69)		tert-Butylbenzene	1.201	1.301	1.366	1.313	1.344	1.284	1.291	4.63
70)		1,2,4-Trimethylbenz	1.362	1.481	1.563	1.541	1.584	1.527	1.504	4.98
71)		sec-Butylbenzene	2.017	2.085	2.248	2.163	2.215	2.122	2.130	3.92
72)		4-Isopropyltoluene	1.534	1.624	1.795	1.769	1.792	1.632	1.687	5.95
73)		1,3-Dichlorobenzene	0.822	0.848	0.915	0.875	0.884	0.799	0.852	4.83
74)	I	1,4-Dichlorobenzene-d	----------	----------	ISTD	----------	----------	----------		
75)		1,4-Dichlorobenzene	0.928	0.909	0.986	0.979	1.007	0.974	0.960	3.73
76)		n-Butylbenzene	1.668	1.807	1.995	1.964	1.951	1.958	1.894	6.14
77)		1,2-Dichlorobenzene	0.741	0.816	0.876	0.863	0.912	0.866	0.845	6.48
78)		1,2-Dibromo-3-chlor		0.046	0.088	0.081	0.102	0.072	0.077	24.41
79)		1,2,4-Trichlorobenz	0.428	0.425	0.549	0.573	0.606	0.583	0.531	13.89
80)		Hexachlorobutadiene	0.322	0.339	0.317	0.322	0.326	0.336	0.324	3.27
81)		Naphthalene	1.367	0.900	1.152	1.169	1.412	1.150	1.186	14.20
82)		1,2,3-Trichlorobenz	0.450	0.395	0.483	0.488	0.546	0.509	0.479	9.88
83)		Indan							0.000	-1.00

(#) = Out of Range ### Number of calibration levels exceeded format ###

Compound List Report GCMS-3

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Sun Jul 29 14:39:15 2018
Response via : Initial Calibration
Total Cpnds : 83

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	Pentafluorobenzene	168	8.19	1.000	A	2	A	B
2		Dichlorodifluoromethane	85	2.07	0.253	A	1	A	B
3	P	Chloromethane	50	2.30	0.280	A	1	A	B
4		Acrolein	56	3.76	0.459	A	1	A	B
5	C	Vinyl Chloride	62	2.40	0.293	A	1	A	B
6		Bromomethane	94	2.77	0.339	A	2	A	B
7		Chloroethane	64	2.89	0.353	A	1	A	B
8		Trichlorofluoromethane	101	3.20	0.390	A	1	A	B
9		1,1,2-Trichloro-1,2,2 Trifluor	101	3.85	0.470	A	2	A	B
10		Acetone	43	3.97	0.485	A	1	A	B
11	C	1,1-Dichloroethene	61	3.88	0.474	A	2	A	B
12		tert-Butyl Alcohol	59	4.76	0.581	Q	2	A	B
13		Methyl Acetate	43	4.42	0.539	A	1	A	B
14		Methylene Chloride	84	4.64	0.567	Q	2	A	B
15		Carbon Disulfide	76	4.21	0.514	A	1	A	B
16		Acrylonitrile	53	5.07	0.619	Q	2	A	B
17		Methyl tert-Butyl Ether	73	5.01	0.612	A	1	A	B
18		trans-1,2-Dichloroethene	61	5.06	0.618	A	2	A	B
19	P	1,1-Dichloroethane	63	5.89	0.720	A	2	A	B
20		Vinyl Acetate	43	5.94	0.725	A	1	A	B
21		2-Butanone	43	7.10	0.867	A	1	A	B
22		2,2-Dichloropropane	77	7.06	0.862	A	1	A	B
23		cis-1,2-Dichloroethene	61	7.10	0.867	A	1	A	B
24	C	Chloroform	83	7.74	0.945	A	1	A	B
25		Bromochloromethane	49	7.58	0.925	A	2	A	B
26	S	Dibromofluoromethane	113	8.06	0.984	A	2	A	B
27		Cyclohexane	56	8.07	0.985	A	2	A	B
28		1,1,1-Trichloroethane	97	8.04	0.982	A	2	A	B
29		1,1-Dichloropropene	75	8.37	1.022	A	2	A	B
30		Carbon Tetrachloride	117	8.33	1.016	A	2	A	B
31		1,2-Dichloroethane	62	8.88	1.084	A	1	A	B
32		Benzene	78	8.73	1.066	A	1	A	B
33	I	1,4-Difluorobenzene	114	9.53	1.000	A	2	A	B
34		Trichloroethene	130	9.98	1.047	A	2	A	B
35		Methylcyclohexane	83	10.25	1.075	A	2	A	B
36	C	1,2-Dichloropropane	63	10.41	1.092	A	2	A	B
37		Bromodichloromethane	83	10.93	1.147	A	1	A	B
38		p-Dioxane	88	8.72	0.914	A	2	A	B
39		Dibromomethane	174	10.63	1.115	A	2	A	B
40		2-Chloroethylvinyl Ether	63	11.49	1.206	A	1	A	B
41		4-Methyl-2-Pentanone	43	11.99	1.257	A	2	A	B
42		cis-1,3-Dichloropropene	75	11.75	1.232	A	2	A	B
43	S	Toluene-d8	98	12.16	1.276	A	2	A	B
44	C	Toluene	91	12.28	1.288	A	1	A	B
45		trans-1,3-Dichloropropene	75	12.77	1.340	A	2	A	B
46		1,1,2-Trichloroethane	97	13.09	1.373	A	1	A	B
47		2-Hexanone	43	13.47	1.413	A	2	A	B
48		1,3-Dichloropropane	76	13.38	1.404	A	1	A	B
49		Tetrachloroethene	166	13.25	1.390	A	2	A	B
50		Dibromochloromethane	129	13.74	1.441	A	1	A	B
51		1,2-Dibromoethane	107	13.93	1.462	A	1	A	B
52	I	Chlorobenzene-d5	82	14.70	1.000	A	2	A	B
53	C	Chlorobenzene	112	14.74	1.003	A	1	A	B
54		1,1,1,2-Tetrachloroethane	131	14.91	1.014	A	2	A	B
55	C	Ethylbenzene	91	14.89	1.013	A	1	A	B
56		m+p-Xylenes	106	15.11	1.028	A	2	A	B
57		o-Xylene	91	15.80	1.075	A	2	A	B
58		Styrene	104	15.83	1.077	A	2	A	B
59		Isopropylbenzene	105	16.40	1.116	A	1	A	B
60	P	Bromoform	173	16.17	1.100	A	2	A	B
61	P	1,1,2,2-Tetrachloroethane	83	17.01	1.157	A	1	A	B
62	S	4-Bromofluorobenzene	95	16.74	1.139	A	2	A	B
63		1,2,3-Trichloropropane	110	17.09	1.162	A	1	A	B
64		n-Propylbenzene	91	17.12	1.164	A	2	A	B

65	Bromobenzene	77	16.98	1.155	A	2	A	B
66	2-Chlorotoluene	91	17.31	1.178	A	2	A	B
67	4-Chlorotoluene	91	17.50	1.191	A	2	A	B
68	1,3,5-Trimethylbenzene	105	17.43	1.186	A	1	A	B
69	tert-Butylbenzene	119	17.96	1.222	A	2	A	B
70	1,2,4-Trimethylbenzene	105	18.08	1.230	A	1	A	B
71	sec-Butylbenzene	105	18.35	1.248	A	2	A	B
72	4-Isopropyltoluene	119	18.60	1.265	A	2	A	B
73	1,3-Dichlorobenzene	146	18.60	1.265	A	2	A	B
74 I	1,4-Dichlorobenzene-d4	152	18.69	1.000	A	2	A	B
75	1,4-Dichlorobenzene	146	18.73	1.002	A	2	A	B
76	n-Butylbenzene	91	19.25	1.030	A	2	A	B
77	1,2-Dichlorobenzene	146	19.37	1.036	A	2	A	B
78	1,2-Dibromo-3-chloropropane	75	20.69	1.107	QO	2	A	B
79	1,2,4-Trichlorobenzene	180	22.08	1.181	A	2	A	B
80	Hexachlorobutadiene	225	22.30	1.193	A	2	A	B
81	Naphthalene	128	22.48	1.203	A	2	A	B
82	1,2,3-Trichlorobenzene	180	22.91	1.226	A	2	A	B
83	Indan	117	18.05	0.966	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

0717WC3.M Mon Jul 30 08:56:06 2018 SS

CALIBRATION VERIFICATION SUMMARY

SW 846 8260C

CCV ID: S8J1704-CCV1 **Analyzed:** 10/10/18 13:33

Analyte	Response Factor	Expected Result	Result		% Drift	Limit(s)
1,1,1-Trichloroethane	0.7373984	200.00	249.17	*	25	20
1,1,2,2-Tetrachloroethane	0.4323567	200.00	186.64		7	0.3 (SPCC)
1,1,2-Trichloro-1,2,2 Trifluoroethane	0.3885111	200.00	163.56		18	20
1,1,2-Trichloroethane	0.1703746	200.00	191.60		4	20
1,1-Dichloroethane	0.8496664	200.00	218.21		9	0.1 (SPCC)
1,1-Dichloroethene	0.7945612	200.00	231.64		16	20 (CCC)
1,2,3-Trichlorobenzene	0.4828518	200.00	221.99		11	20
1,2,4-Trichlorobenzene	0.6295863	200.00	237.27		19	20
1,2,4-Trimethylbenzene	1.864631	200.00	225.19		13	20
1,2-Dibromo-3-chloropropane	9.506023E-02	200.00	236.88		18	20
1,2-Dibromoethane	0.1826416	200.00	206.38		3	20
1,2-Dichlorobenzene	0.9081894	200.00	214.98		7	20
1,2-Dichloroethane	0.6933126	200.00	261.14	*	31	20
1,2-Dichloropropane	0.220676	200.00	192.26		4	20 (CCC)
1,3-Dichlorobenzene	0.919692	200.00	215.86		8	20
1,4-Dichlorobenzene	1.006167	200.00	209.68		5	20
2-Butanone	0.1800639	200.00	176.21		12	20
2-Hexanone	0.1525543	200.00	188.49		6	20
4-Methyl-2-pentanone	0.2146098	200.00	191.62		4	20
Acetone	0.1557066	200.00	237.49		19	20
Benzene	1.516194	200.00	179.91		10	20
Bromochloromethane	0.387115	200.00	202.36		1	20
Bromodichloromethane	0.3697722	200.00	166.53		17	20
Bromoform	0.2964029	200.00	226.45		13	0.1 (SPCC)
Bromomethane	0.2743366	200.00	204.02		2	20
Carbon disulfide	1.218475	200.00	140.08	*	30	20
Carbon Tetrachloride	0.6674893	200.00	250.10	*	25	20
Chlorobenzene	1.142052	200.00	204.01		2	0.3 (SPCC)
Chlorodibromomethane	0.2495352	200.00	160.58		20	20
Chloroethane	0.3086909	200.00	201.40		1	20
Chloroform	0.8609991	200.00	230.37		15	20 (CCC)
Chloromethane	0.3907103	200.00	175.04		12	0.1 (SPCC)
cis-1,2-Dichloroethene	0.8156015	200.00	224.02		12	20
cis-1,3-Dichloropropene	0.3982	200.00	213.87		7	20
Cyclohexane	0.6395256	200.00	162.71		19	20
Dichlorodifluoromethane	0.351371	200.00	233.67		17	20
EthylBenzene	2.102067	200.00	212.34		6	20 (CCC)
Isopropylbenzene	2.044636	200.00	217.18		9	20
m+p-Xylenes	0.729369	400.00	401.78		0	20
Methyl Acetate	0.270541	200.00	179.27		10	20
Methyl tert-Butyl Ether	1.097602	200.00	202.42		1	20
Methylcyclohexane	0.3421712	200.00	170.67		15	20
Methylene Chloride	0.501129	200.00	212.62		6	20
o-Xylene	1.663676	200.00	217.35		9	20
Styrene	1.250545	200.00	208.39		4	20
tert-Butyl alcohol	4.009553E-02	2,000.00	2,094.81		5	20
Tetrachloroethene	0.2408909	200.00	210.03		5	20

F-VII

CALIBRATION VERIFICATION SUMMARY

SW 846 8260C

CCV ID: S8J1704-CCV1 **Analyzed:** 10/10/18 13:33

Analyte	Response Factor	Expected Result	Result	% Drift	Limit(s)
Toluene	0.8913027	200.00	193.11	3	20 (CCC)
trans-1,2-Dichloroethene	0.7078446	200.00	221.55	11	20
trans-1,3-Dichloropropene	0.3795366	200.00	233.29	17	20
Trichloroethene	0.2390769	200.00	208.22	4	20
Trichlorofluoromethane	0.7778794	200.00	188.23	6	20
Vinyl chloride	0.4649842	200.00	212.84	6	20 (CCC)

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\3\DATA\10102018\3V33991.D Vial: 42
Acq On : 10 Oct 2018 13:33 Operator: omd
Sample : SEQ-CCV@200 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 10 16:49 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Tue Oct 09 14:36:22 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.48	168	157222	50.00	ug/kg	0.02
33) 1,4-Difluorobenzene	8.91	114	291493	50.00	ug/kg	0.02
52) Chlorobenzene-d5	14.07	82	151386	50.00	ug/kg	0.02
74) 1,4-Dichlorobenzene-d4	18.06	152	137476	50.00	ug/kg	0.00
System Monitoring Compounds						
26) Dibromofluoromethane	7.36	113	104550	54.67	ug/kg	0.02
Spiked Amount 50.000	Range 59 - 147		Recovery =	109.34%		
43) Toluene-d8	11.54	98	347844	53.06	ug/kg	0.02
Spiked Amount 50.000	Range 66 - 134		Recovery =	106.12%		
62) 4-Bromofluorobenzene	16.11	95	151180	59.27	ug/kg	0.02
Spiked Amount 50.000	Range 64 - 125		Recovery =	118.54%		

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.90	85	220973	233.67	ug/kg	95
3) Chloromethane	2.07	50	245713	175.04	ug/kg	95
4) Acrolein	3.32	56	5637	66.67	ug/kg	75
5) Vinyl Chloride	2.16	62	292423	212.84	ug/kg	93
6) Bromomethane	2.48	94	172527	204.02	ug/kg#	93
7) Chloroethane	2.58	64	194132	201.40	ug/kg	94
8) Trichlorofluoromethane	2.86	101	489199	188.23	ug/kg	99
9) 1,1,2-Trichloro-1,2,2 Trif	3.46	101	244330	163.56	ug/kg	84
10) Acetone	3.50	43	97922m	237.49	ug/kg	
11) 1,1-Dichloroethene	3.44	61	499690	231.64	ug/kg	70
12) tert-Butyl Alcohol	4.23	59	252156	2094.81	ug/kg	87
13) Methyl Acetate	3.89	43	170140	179.27	ug/kg	93
14) Methylene Chloride	4.10	84	315154	212.62	ug/kg	91
15) Carbon Disulfide	3.73	76	766284	140.08	ug/kg	98
16) Acrylonitrile	4.43	53	74733	161.31	ug/kg	92
17) Methyl tert-Butyl Ether	4.49	73	690269	202.42	ug/kg	89
18) trans-1,2-Dichloroethene	4.49	61	445155	221.55	ug/kg	76
19) 1,1-Dichloroethane	5.21	63	534345	218.21	ug/kg	99
21) 2-Butanone	6.33	43	113240	176.21	ug/kg	100
22) 2,2-Dichloropropane	6.35	77	495299	271.51	ug/kg	100
23) cis-1,2-Dichloroethene	6.35	61	512922	224.02	ug/kg	73
24) Chloroform	7.05	83	541472	230.37	ug/kg	99
25) Bromochloromethane	6.81	49	243452	202.36	ug/kg	84
27) Cyclohexane	7.46	56	402190	162.71	ug/kg	97
28) 1,1,1-Trichloroethane	7.34	97	463741	249.17	ug/kg	95
29) 1,1-Dichloropropene	7.67	75	396281	218.49	ug/kg	87
30) Carbon Tetrachloride	7.64	117	419776	250.10	ug/kg	100
31) 1,2-Dichloroethane	8.15	62	436016	261.14	ug/kg	98
32) Benzene	8.03	78	953516	179.91	ug/kg	98
34) Trichloroethene	9.31	130	278757	208.22	ug/kg	91
35) Methylcyclohexane	9.73	83	398962	170.67	ug/kg#	86
36) 1,2-Dichloropropane	9.78	63	257302	192.26	ug/kg	97
37) Bromodichloromethane	10.29	83	431144	166.53	ug/kg	97
39) Dibromomethane	9.93	174	162831	217.70	ug/kg	71
41) 4-Methyl-2-Pentanone	11.38	43	250229	191.62	ug/kg	93
42) cis-1,3-Dichloropropene	11.08	75	464290	213.87	ug/kg	94
44) Toluene	11.66	91	1039234	193.11	ug/kg	97
45) trans-1,3-Dichloropropene	12.11	75	442529	233.29	ug/kg	90
46) 1,1,2-Trichloroethane	12.45	97	198652	191.60	ug/kg	99
47) 2-Hexanone	12.85	43	177874	188.49	ug/kg	91
48) 1,3-Dichloropropane	12.72	76	370880	199.49	ug/kg	100
49) Tetrachloroethene	12.55	166	280872	210.03	ug/kg	98
50) Dibromochloromethane	13.07	129	290951	160.58	ug/kg	100
51) 1,2-Dibromoethane	13.25	107	212955	206.38	ug/kg#	83

(#) = qualifier out of range (m) = manual integration
3V33991.D 0717WC3.M Wed Oct 17 12:06:27 2018 SS Page 1

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\3\DATA\10102018\3V33991.D Vial: 42
Acq On : 10 Oct 2018 13:33 Operator: omd
Sample : SEQ-CCV@200 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 10 16:49 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Tue Oct 09 14:36:22 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

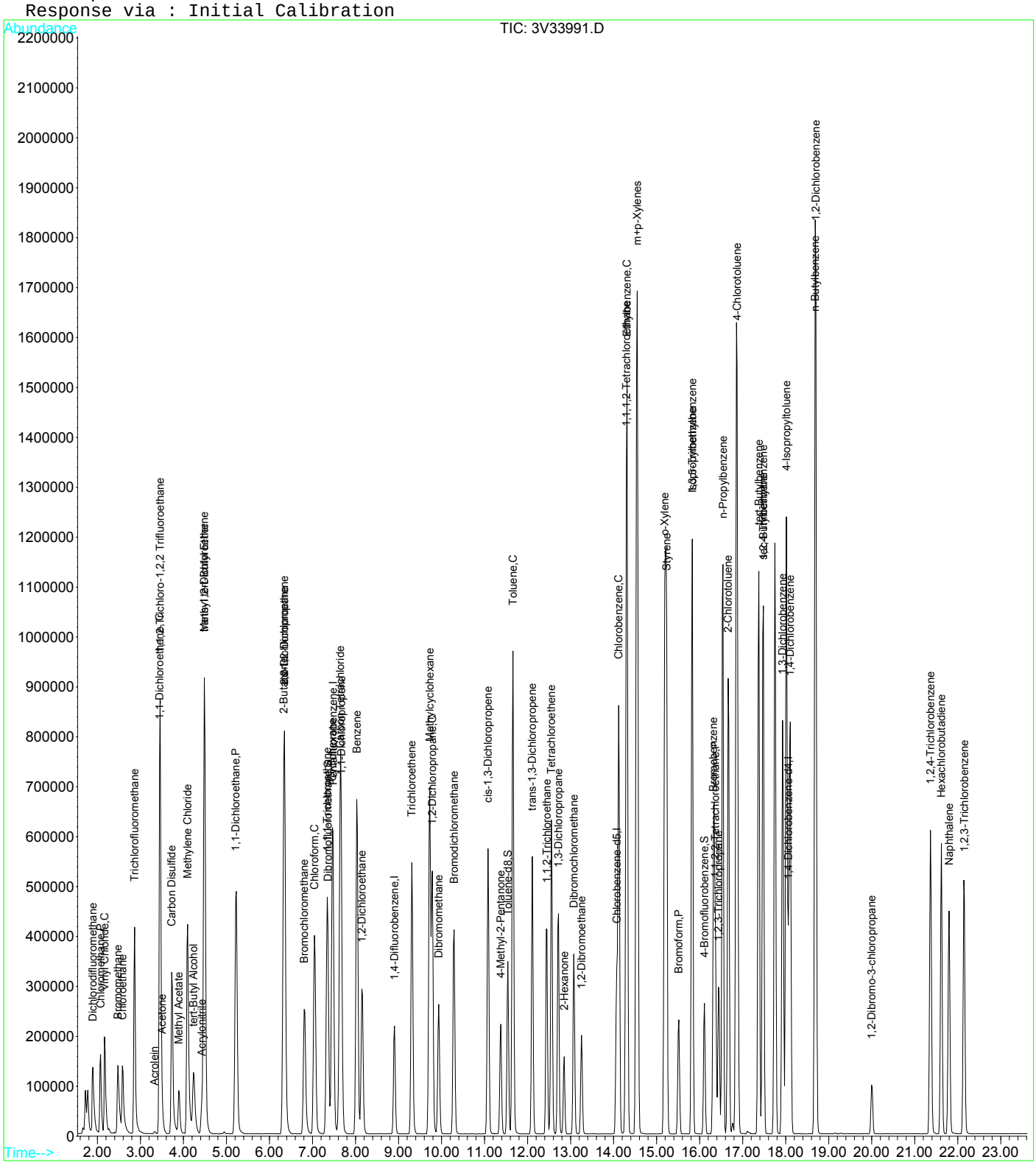
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
53)	Chlorobenzene	14.12	112	691563	204.01	ug/kg	98
54)	1,1,1,2-Tetrachloroethane	14.30	131	273915	233.79	ug/kg	99
55)	Ethylbenzene	14.31	91	1272894	212.34	ug/kg	91
56)	m+p-Xylenes	14.55	106	883330	401.78	ug/kg	77
57)	o-Xylene	15.19	91	1007429	217.35	ug/kg	86
58)	Styrene	15.23	104	757260	208.39	ug/kg	89
59)	Isopropylbenzene	15.83	105	1238117	217.18	ug/kg#	90
60)	Bromoform	15.52	173	179485	226.45	ug/kg	99
61)	1,1,2,2-Tetrachloroethane	16.36	83	261811	186.64	ug/kg	96
63)	1,2,3-Trichloropropane	16.44	110	82275	220.57	ug/kg	96
64)	n-Propylbenzene	16.54	91	1509041	205.02	ug/kg#	93
65)	Bromobenzene	16.32	77	484663	210.46	ug/kg	75
66)	2-Chlorotoluene	16.66	91	893241	218.73	ug/kg	85
67)	4-Chlorotoluene	16.87	91	1053181	222.93	ug/kg#	83
68)	1,3,5-Trimethylbenzene	15.83	105	1238117	268.30	ug/kg#	56
69)	tert-Butylbenzene	17.38	119	864652	221.26	ug/kg#	81
70)	1,2,4-Trimethylbenzene	17.48	105	1025368	225.19	ug/kg	90
71)	sec-Butylbenzene	17.48	105	1025368	158.97	ug/kg#	70
72)	4-Isopropyltoluene	18.02	119	1132844	221.76	ug/kg	90
73)	1,3-Dichlorobenzene	17.93	146	556914	215.86	ug/kg#	93
75)	1,4-Dichlorobenzene	18.11	146	553295	209.68	ug/kg#	91
76)	n-Butylbenzene	18.69	91	1123812	215.84	ug/kg	94
77)	1,2-Dichlorobenzene	18.70	146	499417	214.98	ug/kg#	93
78)	1,2-Dibromo-3-chloropropan	20.00	75	52274	236.88	ug/kg	46
79)	1,2,4-Trichlorobenzene	21.37	180	346212	237.27	ug/kg	96
80)	Hexachlorobutadiene	21.62	225	200317	224.69	ug/kg	98
81)	Naphthalene	21.80	128	645900	198.15	ug/kg	98
82)	1,2,3-Trichlorobenzene	22.16	180	292388	221.99	ug/kg	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\HPCHEM\3\DATA\10102018\3V33991.D Vial: 42
Acq On : 10 Oct 2018 13:33 Operator: omd
Sample : SEQ-CCV@200 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 10 16:49 2018 Quant Results File: 0717WC3.RES

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration



15 15.8.

CALIBRATION VERIFICATION SUMMARY

SW 846 8260C

CCV ID: S8J1706-CCV1 **Analyzed:** 10/11/18 12:06

Analyte	Response Factor	Expected Result	Result		% Drift	Limit(s)
1,1,1-Trichloroethane	0.7386335	200.00	249.58	*	25	20
1,1,2,2-Tetrachloroethane	0.4083544	200.00	176.28		12	0.3 (SPCC)
1,1,2-Trichloro-1,2,2 Trifluoroethane	0.3855659	200.00	162.32		19	20
1,1,2-Trichloroethane	0.1675339	200.00	188.40		6	20
1,1-Dichloroethane	0.8625258	200.00	221.52		11	0.1 (SPCC)
1,1-Dichloroethene	0.790563	200.00	230.48		15	20 (CCC)
1,2,3-Trichlorobenzene	0.4491346	200.00	215.12		8	20
1,2,4-Trichlorobenzene	0.6022689	200.00	226.98		13	20
1,2,4-Trimethylbenzene	1.827834	200.00	211.88		6	20
1,2-Dibromo-3-chloropropane	9.097148E-02	200.00	227.47		14	20
1,2-Dibromoethane	0.1789234	200.00	202.18		1	20
1,2-Dichlorobenzene	0.8925047	200.00	211.27		6	20
1,2-Dichloroethane	0.6866358	200.00	258.62	*	29	20
1,2-Dichloropropane	0.2236168	200.00	194.82		3	20 (CCC)
1,3-Dichlorobenzene	0.8714575	200.00	204.54		2	20
1,4-Dichlorobenzene	0.9952809	200.00	207.42		4	20
2-Butanone	0.174838	200.00	171.09		14	20
2-Hexanone	0.1469789	200.00	181.60		9	20
4-Methyl-2-pentanone	0.2100835	200.00	187.58		6	20
Acetone	0.1409729	200.00	215.02		8	20
Benzene	1.549129	200.00	183.82		8	20
Bromochloromethane	0.3924546	200.00	205.15		3	20
Bromodichloromethane	0.3659221	200.00	236.47		18	20
Bromoform	0.275435	200.00	210.43		5	0.1 (SPCC)
Bromomethane	0.2825013	200.00	210.10		5	20
Carbon disulfide	1.202848	200.00	138.28	*	31	20
Carbon Tetrachloride	0.6633847	200.00	248.56	*	24	20
Chlorobenzene	1.095323	200.00	195.66		2	0.3 (SPCC)
Chlorodibromomethane	0.242004	200.00	223.20		12	20
Chloroethane	0.3058067	200.00	199.51		0	20
Chloroform	0.8718411	200.00	233.27		17	20 (CCC)
Chloromethane	0.3931683	200.00	176.15		12	0.1 (SPCC)
cis-1,2-Dichloroethene	0.8241116	200.00	226.36		13	20
cis-1,3-Dichloropropene	0.3956789	200.00	212.51		6	20
Cyclohexane	0.6490688	200.00	165.14		17	20
Dichlorodifluoromethane	0.3183648	200.00	211.72		6	20
EthylBenzene	2.010652	200.00	203.11		2	20 (CCC)
Isopropylbenzene	1.959547	200.00	208.14		4	20
m+p-Xylenes	0.7026695	400.00	387.07		3	20
Methyl Acetate	0.2670947	200.00	176.99		12	20
Methyl tert-Butyl Ether	1.089082	200.00	200.85		0	20
Methylcyclohexane	0.3416175	200.00	170.39		15	20
Methylene Chloride	0.4934852	200.00	209.19		5	20
o-Xylene	1.596957	200.00	208.63		4	20
Styrene	1.20811	200.00	201.32		1	20
tert-Butyl alcohol	3.908876E-02	2,000.00	2,041.49		2	20
Tetrachloroethene	0.2411271	200.00	210.23		5	20

F-VII

CALIBRATION VERIFICATION SUMMARY

SW 846 8260C

CCV ID: S8J1706-CCV1 **Analyzed:** 10/11/18 12:06

Analyte	Response Factor	Expected Result	Result		% Drift	Limit(s)
Toluene	0.8995815	200.00	194.91		3	20 (CCC)
trans-1,2-Dichloroethene	0.7171729	200.00	224.47		12	20
trans-1,3-Dichloropropene	0.3788893	200.00	232.89		16	20
Trichloroethene	0.2374675	200.00	206.82		3	20
Trichlorofluoromethane	0.7502296	200.00	260.69	*	30	20
Vinyl chloride	0.4569313	200.00	209.15		5	20 (CCC)

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\3\DATA\10112018\3V34017.D Vial: 72
Acq On : 11 Oct 2018 12:06 Operator: omd
Sample : SEQ-CCV@200 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 16:20 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.52	168	161132	50.00	ug/kg	0.06
33) 1,4-Difluorobenzene	8.95	114	302494	50.00	ug/kg	0.06
52) Chlorobenzene-d5	14.10	82	165068	50.00	ug/kg	0.05
74) 1,4-Dichlorobenzene-d4	18.11	152	143883	50.00	ug/kg	0.05
System Monitoring Compounds						
26) Dibromofluoromethane	7.40	113	109643	55.94	ug/kg	0.06
Spiked Amount 50.000	Range 59 - 147		Recovery =	111.88%		
43) Toluene-d8	11.59	98	362129	53.23	ug/kg	0.06
Spiked Amount 50.000	Range 66 - 134		Recovery =	106.46%		
62) 4-Bromofluorobenzene	16.14	95	162426	58.40	ug/kg	0.05
Spiked Amount 50.000	Range 64 - 125		Recovery =	116.80%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.91	85	205195	211.72	ug/kg	95
3) Chloromethane	2.09	50	253408	176.15	ug/kg	96
4) Acrolein	3.37	56	6158	71.06	ug/kg	81
5) Vinyl Chloride	2.19	62	294505	209.15	ug/kg	94
6) Bromomethane	2.51	94	182080	210.10	ug/kg#	94
7) Chloroethane	2.61	64	197101	199.51	ug/kg	95
8) Trichlorofluoromethane	2.89	101	483544	260.69	ug/kg	99
9) 1,1,2-Trichloro-1,2,2 Trif	3.49	101	248508	162.32	ug/kg	80
10) Acetone	3.53	43	90861m	215.02	ug/kg	
11) 1,1-Dichloroethene	3.49	61	509540	230.48	ug/kg	75
12) tert-Butyl Alcohol	4.28	59	251938	2041.49	ug/kg	89
13) Methyl Acetate	3.93	43	172150	176.99	ug/kg	92
14) Methylene Chloride	4.13	84	318065	209.19	ug/kg	83
15) Carbon Disulfide	3.77	76	775269	138.28	ug/kg	99
16) Acrylonitrile	4.47	53	76245	160.56	ug/kg	96
17) Methyl tert-Butyl Ether	4.53	73	701944	200.85	ug/kg	91
18) trans-1,2-Dichloroethene	4.53	61	462238	224.47	ug/kg	76
19) 1,1-Dichloroethane	5.26	63	555922	221.52	ug/kg	99
21) 2-Butanone	6.39	43	112688	171.09	ug/kg	98
22) 2,2-Dichloropropane	6.40	77	509725	272.64	ug/kg	99
23) cis-1,2-Dichloroethene	6.39	61	531163	226.36	ug/kg	73
24) Chloroform	7.10	83	561926	233.27	ug/kg	99
25) Bromochloromethane	6.87	49	252948	205.15	ug/kg	83
27) Cyclohexane	7.52	56	418343	165.14	ug/kg	98
28) 1,1,1-Trichloroethane	7.39	97	476070	249.58	ug/kg	95
29) 1,1-Dichloropropene	7.71	75	410098	220.62	ug/kg	87
30) Carbon Tetrachloride	7.69	117	427570	248.56	ug/kg	100
31) 1,2-Dichloroethane	8.21	62	442556	258.62	ug/kg	98
32) Benzene	8.09	78	998457	183.82	ug/kg	98
34) Trichloroethene	9.35	130	287330	206.82	ug/kg	91
35) Methylcyclohexane	9.77	83	413349	170.39	ug/kg#	87
36) 1,2-Dichloropropane	9.83	63	270571	194.82	ug/kg	97
37) Bromodichloromethane	10.32	83	442757	236.47	ug/kg	98
39) Dibromomethane	9.98	174	162695	209.61	ug/kg	68
41) 4-Methyl-2-Pentanone	11.41	43	254196	187.58	ug/kg	93
42) cis-1,3-Dichloropropene	11.13	75	478762	212.51	ug/kg	95
44) Toluene	11.71	91	1088472	194.91	ug/kg	96
45) trans-1,3-Dichloropropene	12.15	75	458447	232.89	ug/kg	90
46) 1,1,2-Trichloroethane	12.48	97	202712	188.40	ug/kg	98
47) 2-Hexanone	12.88	43	177841	181.60	ug/kg	91
48) 1,3-Dichloropropane	12.75	76	383651	198.86	ug/kg	99
49) Tetrachloroethene	12.60	166	291758	210.23	ug/kg	98
50) Dibromochloromethane	13.12	129	292819	223.20	ug/kg	98
51) 1,2-Dibromoethane	13.30	107	216493	202.18	ug/kg#	85

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\3\DATA\10112018\3V34017.D Vial: 72
Acq On : 11 Oct 2018 12:06 Operator: omd
Sample : SEQ-CCV@200 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 16:20 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

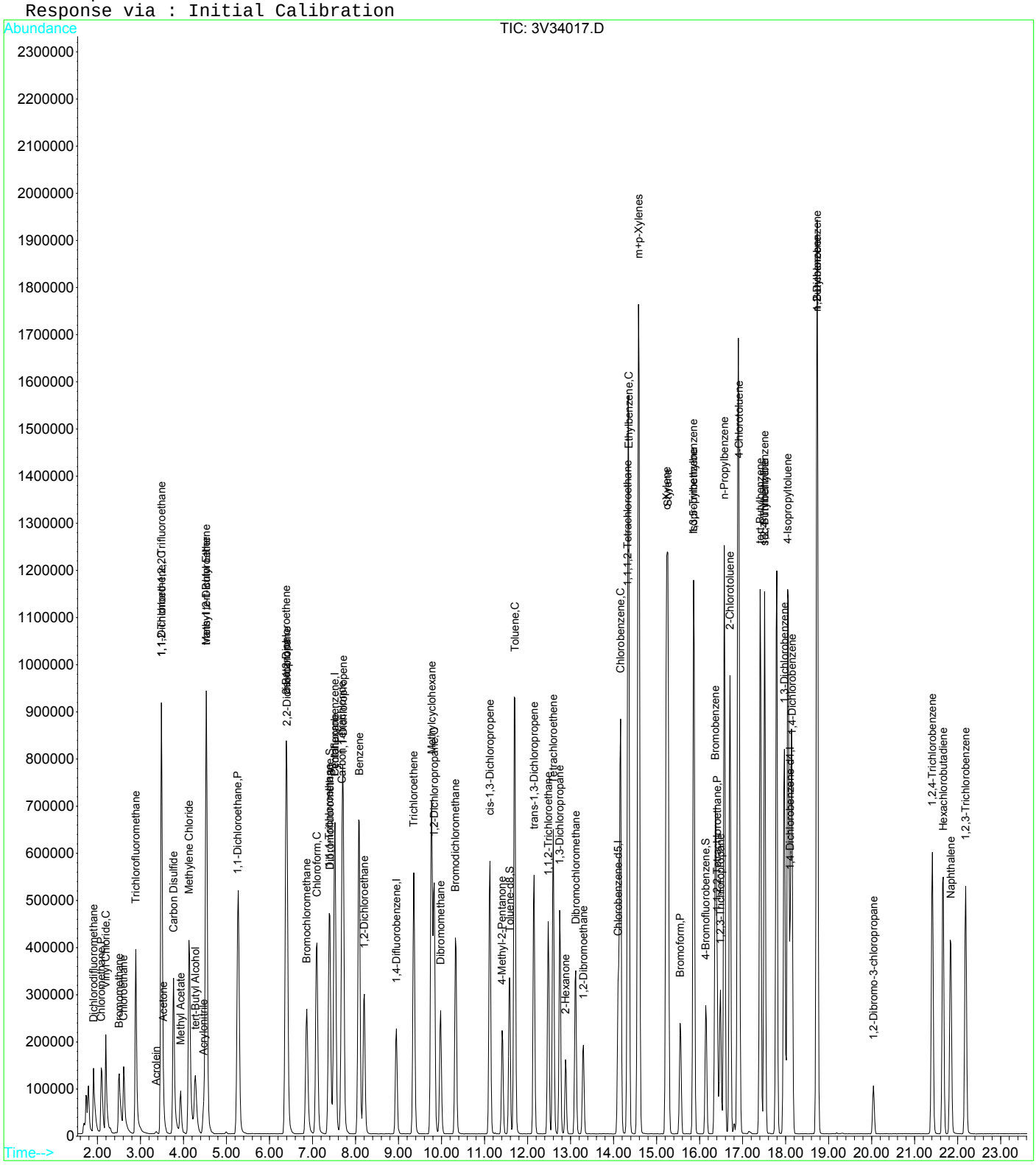
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
53)	Chlorobenzene	14.16	112	723211	195.66	ug/kg	99
54)	1,1,1,2-Tetrachloroethane	14.33	131	283199	221.68	ug/kg	99
55)	Ethylbenzene	14.36	91	1327577	203.11	ug/kg	92
56)	m+p-Xylenes	14.58	106	927906	387.07	ug/kg	75
57)	o-Xylene	15.23	91	1054426	208.63	ug/kg	88
58)	Styrene	15.26	104	797681	201.32	ug/kg	88
59)	Isopropylbenzene	15.86	105	1293834	208.14	ug/kg#	88
60)	Bromoform	15.55	173	181862	210.43	ug/kg	97
61)	1,1,2,2-Tetrachloroethane	16.41	83	269625	176.28	ug/kg	96
63)	1,2,3-Trichloropropane	16.48	110	81877	201.31	ug/kg	94
64)	n-Propylbenzene	16.57	91	1567359	195.29	ug/kg#	91
65)	Bromobenzene	16.37	77	503094	200.36	ug/kg	82
66)	2-Chlorotoluene	16.71	91	922148	207.10	ug/kg	87
67)	4-Chlorotoluene	16.92	91	1092826	212.15	ug/kg	87
68)	1,3,5-Trimethylbenzene	15.86	105	1293834	257.13	ug/kg#	55
69)	tert-Butylbenzene	17.41	119	889991	208.87	ug/kg#	79
70)	1,2,4-Trimethylbenzene	17.51	105	1051977	211.88	ug/kg	89
71)	sec-Butylbenzene	17.51	105	1051977	149.58	ug/kg#	70
72)	4-Isopropyltoluene	18.05	119	1158571	208.00	ug/kg#	88
73)	1,3-Dichlorobenzene	17.97	146	575399	204.54	ug/kg#	94
75)	1,4-Dichlorobenzene	18.15	146	572816	207.42	ug/kg#	92
76)	n-Butylbenzene	18.73	91	1141911	209.55	ug/kg	95
77)	1,2-Dichlorobenzene	18.73	146	513665	211.27	ug/kg#	91
78)	1,2-Dibromo-3-chloropropan	20.04	75	52357	227.47	ug/kg	48
79)	1,2,4-Trichlorobenzene	21.41	180	346625	226.98	ug/kg	95
80)	Hexachlorobutadiene	21.66	225	202071	216.57	ug/kg	96
81)	Naphthalene	21.84	128	643272	188.56	ug/kg	98
82)	1,2,3-Trichlorobenzene	22.19	180	296551	215.12	ug/kg	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\HPCHEM\3\DATA\10112018\3V34017.D Vial: 72
Acq On : 11 Oct 2018 12:06 Operator: omd
Sample : SEQ-CCV@200 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 16:20 2018 Quant Results File: 0717WC3.RES

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration



INTERNAL STANDARD REPORT

Analysis Class: VOLATILES **Analysis Batch:** S8J1704

		PFB		DFB		CHB-D5		DCB-D4					
Lab Number	File ID	Area	Rt	Area	Rt	Area	Rt	Area	Rt	Area	Rt	Area	Rt
B8J1111-BLK1	3V33994.D	145721	7.49	275232	8.91	144968	14.07	125977	18.06				
8100452-01	3V34002.D	150003	7.49	284129	8.92	152189	14.07	132035	18.06				
8100452-02	3V34003.D	147411	7.49	282053	8.92	150180	14.07	126429	18.06				
8100452-05	3V34004.D	153714	7.49	287940	8.92	152713	14.07	134717	18.08				
8100452-06	3V34005.D	121951	7.51	230145	8.92	121749	14.07	109706	18.06				
8100452-07	3V34006.D	140882	7.51	262094	8.92	139480	14.07	114467	18.08				
8100452-11	3V34008.D	147505	7.49	269462	8.92	143908	14.07	125562	18.08				
8100452-12	3V34009.D	137633	7.51	257853	8.92	137391	14.07	119681	18.08				
8100452-14	3V34010.D	149345	7.51	275625	8.92	150050	14.09	131114	18.08				

Reference Std ID
S8J1704-CCV1

	Internal Standard	Ref Area	Area Limit	Ref RT	RT Limit
PFB	Pentafluorobenzene	157222	78,611.00 - 314,444.00	7.48	0.50
DFB	1,4-Difluorobenzene	291493	145,746.50 - 582,986.00	8.91	0.50
CHB-D5	Chlorobenzene-d5	151386	75,693.00 - 302,772.00	14.07	0.50
DCB-D4	1,4-Dichlorobenzene-d4	137476	68,738.00 - 274,952.00	18.06	0.50

* - Outside of QC Limits

F-VIII

INTERNAL STANDARD REPORT

Analysis Class: VOLATILES **Analysis Batch:** S8J1706

		PFB		DFB		CHB-D5		DCB-D4					
Lab Number	File ID	Area	Rt	Area	Rt	Area	Rt	Area	Rt	Area	Rt	Area	Rt
B8J1141-BLK1	3V34019.D	160008	7.54	297018	8.95	159603	14.12	134115	18.11				
8100452-08	3V34020.D	157363	7.54	288376	8.95	154637	14.1	136983	18.11				

Reference Std ID
S8J1706-CCV1

	Internal Standard	Ref Area	Area Limit	Ref RT	RT Limit
PFB	Pentafluorobenzene	161132	80,566.00 - 322,264.00	7.52	0.50
DFB	1,4-Difluorobenzene	302494	151,247.00 - 604,988.00	8.95	0.50
CHB-D5	Chlorobenzene-d5	165068	82,534.00 - 330,136.00	14.1	0.50
DCB-D4	1,4-Dichlorobenzene-d4	143883	71,941.50 - 287,766.00	18.11	0.50

* - Outside of QC Limits

F-VIII

AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

GENERAL CHEMISTRY

Peak Environmental

Work Order: 8100452

Project: Ridgewood

ANALYSIS DATA SHEET

General Chemistry

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452

General Chemistry

8100452-01 (Soil) - NTP-1A

Analyte	Units	Conc.	RL	DF	Q	Analyzed	Method
Percent Solids	%	89.9		1		10/11/18 10:54	Gravimetric
Cyanide	mg/kg dry	ND	0.278	1	U	10/11/18 13:30	SW 846 9014

8100452-02 (Soil) - NTP-2A

Analyte	Units	Conc.	RL	DF	Q	Analyzed	Method
Percent Solids	%	92.5		1		10/11/18 10:54	Gravimetric

8100452-03 (Soil) - NTP-2B

Analyte	Units	Conc.	RL	DF	Q	Analyzed	Method
Percent Solids	%	92.3		1		10/11/18 10:54	Gravimetric

8100452-04 (Soil) - NTP-3B

Analyte	Units	Conc.	RL	DF	Q	Analyzed	Method
Percent Solids	%	91.3		1		10/11/18 10:54	Gravimetric

8100452-05 (Soil) - NTP-4B

Analyte	Units	Conc.	RL	DF	Q	Analyzed	Method
Percent Solids	%	92.0		1		10/11/18 10:54	Gravimetric

8100452-06 (Soil) - NTP-6

Analyte	Units	Conc.	RL	DF	Q	Analyzed	Method
Cyanide	mg/kg dry	ND	0.285	1	U	10/11/18 13:30	SW 846 9014
Percent Solids	%	87.7		1		10/11/18 10:54	Gravimetric

8100452-07 (Soil) - NTP-7

Analyte	Units	Conc.	RL	DF	Q	Analyzed	Method
Percent Solids	%	91.4		1		10/11/18 10:54	Gravimetric

8100452-08 (Soil) - STP-1B

Analyte	Units	Conc.	RL	DF	Q	Analyzed	Method
Percent Solids	%	89.6		1		10/11/18 10:54	Gravimetric

8100452-09 (Soil) - STP-2B

Analyte	Units	Conc.	RL	DF	Q	Analyzed	Method
Percent Solids	%	91.5		1		10/11/18 10:54	Gravimetric

8100452-10 (Soil) - STP-3B

Analyte	Units	Conc.	RL	DF	Q	Analyzed	Method
Percent Solids	%	91.5		1		10/11/18 10:54	Gravimetric

8100452-11 (Soil) - STP-4A

Analyte	Units	Conc.	RL	DF	Q	Analyzed	Method
Percent Solids	%	90.6		1		10/11/18 10:54	Gravimetric

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

General Chemistry (Con't)

8100452-12 (Soil) - STP-4B

Analyte	Units	Conc.	RL	DF	Q	Analyzed	Method
Cyanide	mg/kg dry	ND	0.273	1	U	10/11/18 13:30	SW 846 9014
Percent Solids	%	91.7		1		10/11/18 10:54	Gravimetric

8100452-13 (Soil) - STP-5

Analyte	Units	Conc.	RL	DF	Q	Analyzed	Method
Percent Solids	%	92.6		1		10/11/18 10:54	Gravimetric

8100452-14 (Soil) - STP-7

Analyte	Units	Conc.	RL	DF	Q	Analyzed	Method
Percent Solids	%	92.9		1		10/11/18 10:54	Gravimetric
Cyanide	mg/kg dry	ND	0.269	1	U	10/11/18 13:30	SW 846 9014

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

General Chemistry - Quality Control

Cyanide		Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B8J1057			Prepared & Analyzed: 10/10/2018							
B8J1057-MSD1	**Source: 8100324-04**	2.98	0.313	mg/kg dry	3.13	ND	95.0	75-125	0.00	20
B8J1057-BLK1		ND	0.250	mg/kg wet						
B8J1057-MS1	**Source: 8100324-04**	2.98	0.313	mg/kg dry	3.13	ND	95.0	75-125		
B8J1057-DUP1	**Source: 8100324-04**	ND	0.313	mg/kg dry		ND				30
B8J1057-BS1		2.38	0.250	mg/kg wet	2.50		95.0	80-120		

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-III

APPENDIX C

BERGEN COMMUNITY COLLEGE ANALYTICAL DATA

CONSULTANTS, INC.
4405 South Clinton Avenue
South Plainfield, NJ 07080

Tel: (800) 545-ATUL
(908) 754-8383
Fax: (908) 754-8633

NJ EDA Approved Testing Laboratory • MBE/DBE Certified • NJ DEP Certified
www.ANSConsultants.net

Soil, Concrete, Masonry, Rebar, Asphalt, Structural Steel, Precast, Piles, Caissons, Fire-proofing, Roofing, Soil Boring, Concrete/Rock Coring, UST Removal, Environmental Testing & Reports

October 8, 2019

Village of Ridgewood
131 North Maple Avenue
Ridgewood, NJ 07450

Attn: Mr. Chris Rutishauser, P.E. CPWM

Re: "Clean Fill" Testing of Soil Sample-TAL/TCL Test
Soil sample marked as # ANS-5326-S1
Bergen Community College

Dear Mr. Rutishauser,

Enclosed, please find a laboratory test report for one composite soil sample prepared from 5-point grab samples on September 27, 2019 for the project referenced above. The primary purpose of the sampling and analytical work was to determine the presence of any hazardous contaminants in the soil.

Sample was analyzed for Target Compound List (TCL), Target Analyte List (TAL), Total Petroleum Hydrocarbon (TPHC- by EPH Method), pH, Chromium Hexavalent & Chromium Trivalent. Test results were reviewed against N.J. D.E.P. Residential, Non-Residential Direct Contact Soil Remediation Standard and Impact to Groundwater soil screening level criteria effective from September 18, 2017.

Contamination was not encountered exceeding NJDEP Residential and Non-Residential Standards in this sample.

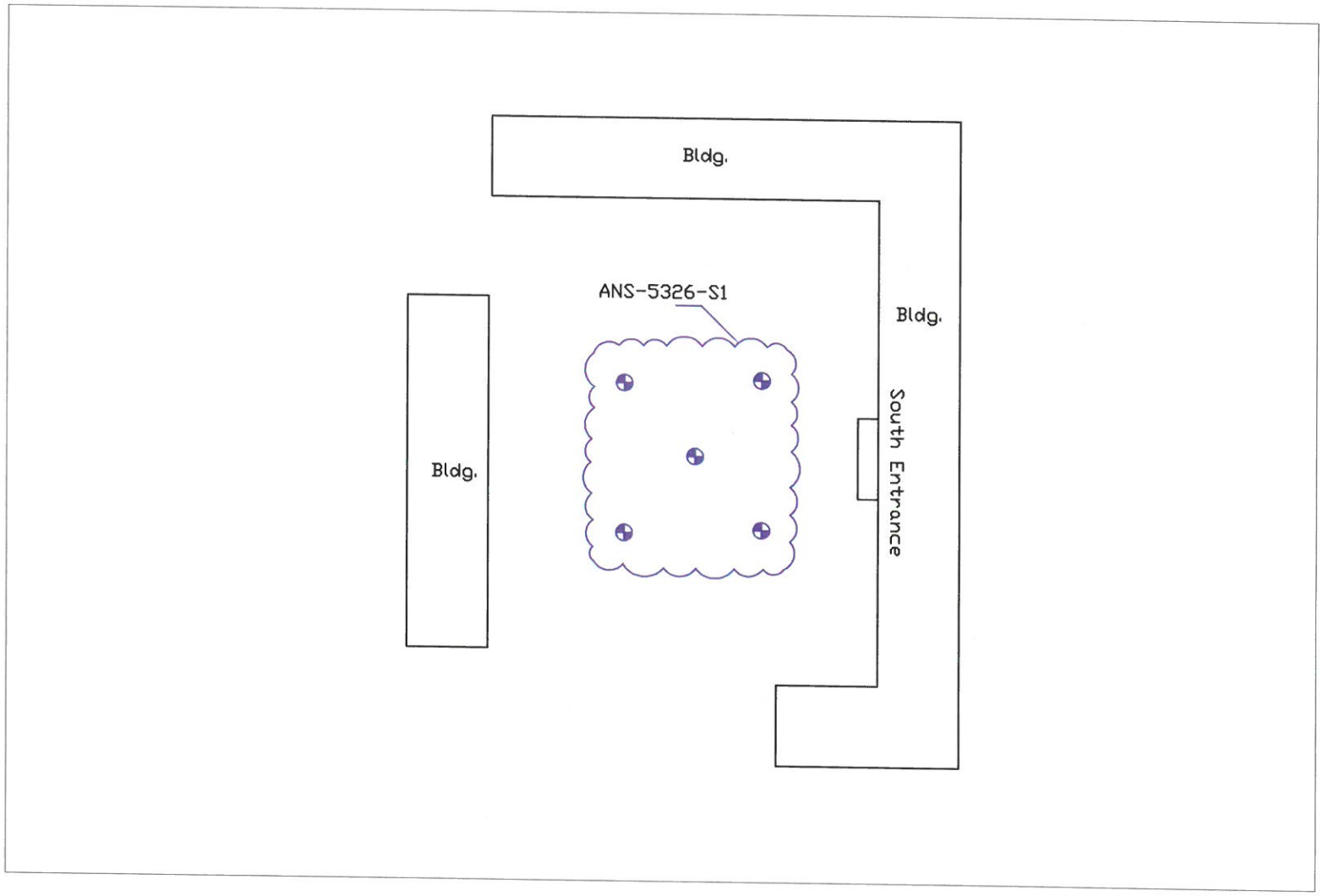
However, Aluminum, Manganese and Mercury exceeded Impact to Groundwater soil screening level criteria; but the Groundwater Quality Standards (GWQS) for Aluminum and Manganese are secondary, that is they are not based on health considerations. Additionally, these elements may be found as background contaminants. Therefore, Department does not require to address IGW pathway for these contaminants unless there is cause to believe that their presence is due to a site discharge.

Should you have any question or require additional information, please do not hesitate to contact the undersigned at (908) 754 - 8383.

Sincerely,
ANS CONSULTANTS, INC.

Atul N Shah, PE, F.ASCE
President
NJ PE License #24GE03443900
ANS/np

File: ANS-5326. TAL-TCL.01



SOIL BORING LOCATION PLAN

SCALE: N.T.S

LEGEND:

Soil Boring Location

CLIENT: Village of Ridgewood	
PROJECT: 131 North Maple Ave, Ridgewood, NJ	
ANS CONSULTANTS INC. 4405 SOUTH CLINTON AVE SO. PLAINFIELD, NJ, O7080	
PHONE: (908) 754 8383 - FAX: (908) 754 8633	
BY: Dharmin Parekh	DATE: 09/27/2019
	Project No: ANS-5326

Client: Village of Ridgewood
Project: Bergen Community College
Date:10/8/2019
File No: ANS-5326

Sample Collected: 9/27/2019

Work Order 9091335		NJDEP Soil Remediation Standards 2017						
Lab: Aqua Pro-Tech Laboratories		NJDEP Residential Direct Contact Standard 9/2017	NJDEP Non-Residential Direct Contact Standard 9/2017	NJDEP Impact To Ground Water Standard 11/2013	9091335-01			
Client: ANS Consultants - 131 North Maple Ave, Ridgewood, NY					ANS-5326-S1			
CAS#	Compound				09/27/2019 13:00			
Extractable Petroleum Hydrocarbons Category 2 (mg/kg)					Result	ualifi	MDL	RL
NJDEP-EPH2	Total EPH	NA	NA	NA	**29.3**		10.5	21.1
General Chemistry (mg/kg)					Result	ualifier		RL
18540-29-9	Chromium, Hexavalent	240	20	s spec.	0.423	U		0.423
57-12-5	Cyanide	47	680	20	0.263	U		0.263
General Chemistry (%)					Result	ualifi	MDL	RL
PERSOL	Percent Solids	NA	NA	NA	**94.9**			
General Chemistry (pH Units)					Result	ualifi	MDL	RL
	pH	NA	NA	NA	**7.64**		0.01	0.01
General Chemistry (mV)					Result	ualifier		RL
	Redox Potential	NA	NA	NA	**164**			-1000
PCBs (mg/kg)					Result	ualifi	MDL	RL
12674-11-2	Aroclor-1016	0.2	1	0.2	0.000619	U	0.000619	0.0348
11104-28-2	Aroclor-1221	0.2	1	0.2	0.00107	U	0.00107	0.0348
11141-16-5	Aroclor-1232	0.2	1	0.2	0.000819	U	0.000819	0.0348
53469-21-9	Aroclor-1242	0.2	1	0.2	0.00118	U	0.00118	0.0348
12672-29-6	Aroclor-1248	0.2	1	0.2	0.000815	U	0.000815	0.0348
11097-69-1	Aroclor-1254	0.2	1	0.2	0.00124	U	0.00124	0.0348
11096-82-5	Aroclor-1260	0.2	1	0.2	0.000917	U	0.000917	0.0348
37324-23-5	Aroclor-1262	0.2	1	0.2	0.00134	U	0.00134	0.0348
11100-14-4	Aroclor-1268	0.2	1	0.2	0.000703	U	0.000703	0.0348
1336-36-3	Total PCBs	0.2	1	0.2	0.000619	U	0.000619	0.0348
Pesticides (mg/kg)					Result	ualifi	MDL	RL
72-54-8	4,4'-DDD	3	13	4	0.0181		0.000829	0.00137
72-55-9	4,4'-DDE	2	9	18	0.158	D	0.00969	0.0137
50-29-3	4,4'-DDT [2C]	2	8	11	0.0102		0.000574	0.00137
309-00-2	Aldrin	0.04	0.2	0.2	0.00085	U	0.00085	0.00137
319-84-6	alpha-BHC	0.1	0.5	0.002	0.00053	U	0.00053	0.00137
319-85-7	beta-BHC	0.4	2	0.002	0.00135	U	0.00135	0.00137
57-74-9	Chlordane	0.2	1	0.05	0.00092	U	0.00092	0.00137
319-86-8	delta-BHC	NA	NA	NA	0.00106	U	0.00106	0.00137
60-57-1	Dieldrin	0.04	0.2	0.003	0.000737	U	0.000737	0.00137
959-98-8	Endosulfan I	470	6800	4	0.000948	U	0.000948	0.00137
33213-65-9	Endosulfan II	470	6800	4	0.000745	U	0.000745	0.00137
1031-07-8	Endosulfan sulfate	470	6800	2	0.000745	U	0.000745	0.00137
72-20-8	Endrin	23	340	1	0.000703	U	0.000703	0.00137
7421-93-4	Endrin aldehyde	NA	NA	NA	0.000585	U	0.000585	0.00137
53494-70-5	Endrin ketone	NA	NA	NA	0.000835	U	0.000835	0.00137
58-89-9	gamma-BHC (Lindane)	0.4	2	0.002	0.000626	U	0.000626	0.00137
76-44-8	Heptachlor	0.1	0.7	0.5	0.000801	U	0.000801	0.00137
1024-57-3	Heptachlor Epoxide	0.07	0.3	0.01	0.000856	U	0.000856	0.00137
72-43-5	Methoxychlor	390	5700	160	0.000871	U	0.000871	0.00137
8001-35-2	Toxaphene	0.6	3	0.3	0.0213	U	0.0213	0.0695
Semivolatile Organics - GC/MS (mg/kg)					Result	ualifi	MDL	RL
58-90-2	2,3,4,6-Tetrachlorophenol	NA	NA	NA	0.0216	U	0.0216	0.14
95-95-4	2,4,5-Trichlorophenol	6100	68000	68	0.0191	U	0.0191	0.14
88-06-2	2,4,6-Trichlorophenol	19	74	0.2	0.00878	U	0.00878	0.14
120-83-2	2,4-Dichlorophenol	180	2100	0.2	0.0141	U	0.0141	0.14
105-67-9	2,4-Dimethylphenol	1200	14000	1	0.0138	U	0.0138	0.14
51-28-5	2,4-Dinitrophenol	120	1400	0.3	0.0202	U	0.0202	0.703
121-14-2	2,4-Dinitrotoluene	0.7	3	0.2	0.015	U	0.015	0.14
606-20-2	2,6-Dinitrotoluene	0.7	3	0.2	0.0335	U	0.0335	0.14
91-58-7	2-Chloronaphthalene	NA	NA	NA	0.0161	U	0.0161	0.14
95-57-8	2-Chlorophenol	310	2200	0.8	0.0185	U	0.0185	0.14
91-57-6	2-Methylnaphthalene	230	2400	8	0.0336	U	0.0336	0.211
95-48-7	2-Methylphenol	310	3400	NA	0.0277	U	0.0277	0.14
88-74-4	2-Nitroaniline	39	23000	NA	0.0113	U	0.0113	0.14

Client: Village of Ridgewood
Project: Bergen Community College
Date:10/8/2019
File No: ANS-5326

Sample Collected: 9/27/2019

Work Order 9091335		NJDEP Soil Remediation Standards 2017						
Lab: Aqua Pro-Tech Laboratories		NJDEP Residential Direct Contact Standard 9/2017	NJDEP Non-Residential Direct Contact Standard 9/2017	NJDEP Impact To Ground Water Standard 11/2013	9091335-01			
Client: ANS Consultants - 131 North Maple Ave, Ridgewood, NY					ANS-5326-S1			
CAS#	Compound				09/27/2019 13:00			
88-75-5	2-Nitrophenol	NA	NA	NA	0.0156	U	0.0156	0.14
91-94-1	3,3'-Dichlorobenzidine	1	4	0.2	0.0147	U	0.0147	0.14
106-44-5	3+4-Methylphenol	31	340	NA	0.0257	U	0.0257	0.14
99-09-2	3-Nitroaniline	NA	NA	NA	0.026	U	0.026	0.14
534-52-1	4,6-Dinitro-2-methylphenol	6	68	0.3	0.0264	U	0.0264	0.351
101-55-3	4-Bromophenyl-phenyl ether	NA	NA	NA	0.02	U	0.02	0.14
59-50-7	4-Chloro-3-methylphenol	NA	NA	NA	0.0221	U	0.0221	0.14
106-47-8	4-Chloroaniline	NA	NA	NA	0.00491	U	0.00491	0.14
7005-72-3	4-Chlorophenyl phenyl ether	NA	NA	NA	0.00757	U	0.00757	0.14
100-01-6	4-Nitroaniline	NA	NA	NA	0.0702	U	0.0702	0.14
100-02-7	4-Nitrophenol	NA	NA	NA	0.00898	U	0.00898	0.14
83-32-9	Acenaphthene	3400	37000	110	0.008	U	0.008	0.14
208-96-8	Acenaphthylene	NA	300000	NA	0.00488	U	0.00488	0.14
98-86-2	Acetophenone	2	5	3	0.0139	U	0.0139	0.14
120-12-7	Anthracene	17000	30000	2400	0.0203	U	0.0203	0.14
1912-24-9	Atrazine	210	2400	0.2	0.0132	U	0.0132	0.14
100-52-7	Benzaldehyde	6100	68000	NA	0.0431	U	0.0431	0.14
56-55-3	Benzo(a)anthracene	5	17	0.8	0.0141	U	0.0141	0.14
50-32-8	Benzo(a)pyrene	0.5	2	0.2	0.0244	U	0.0244	0.14
205-99-2	Benzo(b)fluoranthene	5	17	2	0.0197	U	0.0197	0.14
191-24-2	Benzo(g,h,i)perylene	380000	30000	NA	0.0114	U	0.0114	0.14
207-08-9	Benzo(k)fluoranthene	45	170	25	0.0161	U	0.0161	0.14
92-52-4	Biphenyl	61	240	140	0.0123	U	0.0123	0.14
111-91-1	bis(2-chloroethoxy)methane	NA	NA	NA	0.0194	U	0.0194	0.14
111-44-4	bis(2-chloroethyl)ether	0.4	2	0.2	0.0154	U	0.0154	0.14
108-60-1	bis(2-chloroisopropyl)ether	23	67	5	0.0505	U	0.0505	0.14
117-81-7	bis(2-ethylhexyl)phthalate	35	140	1200	0.028	U	0.028	0.14
85-68-7	Butylbenzylphthalate	1200	14000	230	0.0127	U	0.0127	0.14
105-60-2	Caprolactam	31000	340000	12	0.0181	U	0.0181	0.14
86-74-8	Carbazole	24	96	NA	0.027	U	0.027	0.351
218-01-9	Chrysene	450	1700	80	0.00961	U	0.00961	0.14
53-70-3	Dibenzo(a,h)anthracene	0.5	2	0.8	0.0139	U	0.0139	0.14
132-64-9	Dibenzofuran	NA	NA	NA	0.00835	U	0.00835	0.14
84-66-2	Diethylphthalate	49000	550000	88	0.0272	U	0.0272	0.14
131-11-3	Dimethylphthalate	NA	NA	NA	0.0087	U	0.0087	0.14
84-74-2	Di-n-butylphthalate	6100	68000	760	0.0573	U	0.0573	0.14
117-84-0	Di-n-octylphthalate	2400	27000	3300	0.0288	U	0.0288	0.14
206-44-0	Fluoranthene	2300	24000	1300	0.0132	U	0.0132	0.14
86-73-7	Fluorene	2300	24000	170	0.0117	U	0.0117	0.14
118-74-1	Hexachlorobenzene	0.3	1	0.2	0.0183	U	0.0183	0.14
87-68-3	Hexachlorobutadiene	6	25	0.9	0.0673	U	0.0673	0.14
77-47-4	Hexachlorocyclopentadiene	45	110	320	0.0585	U	0.0585	0.351
67-72-1	Hexachloroethane	12	48	0.2	0.0154	U	0.0154	0.14
193-39-5	Indeno(1,2,3-cd)pyrene	5	17	7	0.0151	U	0.0151	0.14
78-59-1	Isophorone	510	2000	0.2	0.00919	U	0.00919	0.14
91-20-3	Naphthalene	6	17	25	0.0104	U	0.0104	0.14
98-95-3	Nitrobenzene	5	14	0.2	0.0238	U	0.0238	0.14
621-64-7	n-Nitroso-di-n-propylamine	0.2	0.3	0.2	0.00751	U	0.00751	0.14
86-30-6	n-Nitrosodiphenylamine	99	390	0.4	0.0299	U	0.0299	0.14
87-86-5	Pentachlorophenol	0.9	3	0.3	0.0193	U	0.0193	0.351
85-01-8	Phenanthrene	NA	300000	NA	0.0184	U	0.0184	0.14
108-95-2	Phenol	18000	210000	8	0.0114	U	0.0114	0.14
129-00-0	Pyrene	1700	18000	840	0.0103	U	0.0103	0.14
000123-95-5	Octadecanoic acid, butyl ester				**13.2**	J		
	unknown (01)				**16.5**	J		
	unknown (02)				**0.544**	J		
NA	Tentatively Identified Compounds				**30.2**	J		

Client: Village of Ridgewood
Project: Bergen Community College
Date:10/8/2019
File No: ANS-5326

Sample Collected: 9/27/2019

Work Order 9091335		NJDEP Soil Remediation Standards 2017						
Lab: Aqua Pro-Tech Laboratories		NJDEP Residential Direct Contact Standard 9/2017	NJDEP Non-Residential Direct Contact Standard 9/2017	NJDEP Impact To Ground Water Standard 11/2013	9091335-01			
Client: ANS Consultants - 131 North Maple Ave, Ridgewood, NY					ANS-5326-S1			
CAS#	Compound				09/27/2019 13:00			
Total Metals (mg/kg)					Result	ualifier		RL
7429-90-5	Aluminum	78000	NA	6000	**7610**			2.74
7440-36-0	Antimony	31	450	6	1.37	U		1.37
7440-38-2	Arsenic	19	19	19	4.06			0.549
7440-39-3	Barium	16000	59000	2100	51.6			0.549
7440-41-7	Beryllium	16	140	0.7	0.235			0.0274
7440-43-9	Cadmium	78	78	2	0.274	U		0.274
7440-70-2	Calcium	NA	NA	NA	3370			27.4
7440-47-3	Chromium	120000	NA	s spec.	15.0			0.274
7440-48-4	Cobalt	1600	590	90	4.28			0.219
7440-50-8	Copper	3100	45000	11000	12.3			0.274
7439-89-6	Iron	NA	NA	NA	10600			5.49
7439-92-1	Lead	400	800	90	24.1			1.37
7439-95-4	Magnesium	NA	NA	NA	2270			54.9
7439-96-5	Manganese	11000	5900	65	**175**			0.274
7439-97-6	Mercury	23	65	0.1	**0.615**			0.0516
7440-02-0	Nickel	1600	23000	48	8.42			0.137
7440-09-7	Potassium	NA	NA	NA	1350			110
7782-49-2	Selenium	390	5700	11	1.37	U		1.37
7440-22-4	Silver	390	5700	1	0.549	U		0.549
7440-23-5	Sodium	NA	NA	NA	103			54.9
7440-28-0	Thallium	NA	NA	3	1.37	U		1.37
7440-62-2	Vanadium	78	1100	NA	18.0			0.549
7440-66-6	Zinc	23000	110000	930	36.8			0.823
Volatile Organics - GC/MS (mg/kg)					Result	ualifi	MDL	RL
71-55-6	1,1,1-Trichloroethane	160000	NA	0.3	0.00029	U	0.00029	0.00199
79-34-5	1,1,2,2-Tetrachloroethane	1	3	0.007	0.000274	U	0.000274	0.00199
76-13-1	1,1,2-Trichloro-1,2,2 Trifluoroethane	NA	NA	NA	0.000851	U	0.000851	0.00199
79-00-5	1,1,2-Trichloroethane	2	6	0.02	0.000335	U	0.000335	0.00199
75-34-3	1,1-Dichloroethane	8	24	0.2	0.00029	U	0.00029	0.00199
75-35-4	1,1-Dichloroethene	11	150	0.008	0.000368	U	0.000368	0.00199
87-61-6	1,2,3-Trichlorobenzene	NA	NA	NA	0.000429	U	0.000429	0.00199
120-82-1	1,2,4-Trichlorobenzene	73	820	0.7	0.00053	U	0.00053	0.00199
95-63-6	1,2,4-Trimethylbenzene	NA	NA	NA	0.000274	U	0.000274	0.00199
96-12-8	1,2-Dibromo-3-chloropropane	0.08	0.2	0.005	0.000485	U	0.000485	0.00497
106-93-4	1,2-Dibromoethane	0.008	0.04	0.005	0.00025	U	0.00025	0.00199
95-50-1	1,2-Dichlorobenzene	5300	59000	17	0.000351	U	0.000351	0.00199
107-06-2	1,2-Dichloroethane	0.9	3	0.005	0.00028	U	0.00028	0.00199
78-87-5	1,2-Dichloropropane	2	5	0.005	0.000326	U	0.000326	0.00199
541-73-1	1,3-Dichlorobenzene	5300	59000	19	0.000146	U	0.000146	0.00199
106-46-7	1,4-Dichlorobenzene	5	13	2	0.000286	U	0.000286	0.00199
78-93-3	2-Butanone	3100	44000	0.9	0.000324	U	0.000324	0.00497
591-78-6	2-Hexanone	NA	NA	NA	0.000186	U	0.000186	0.00199
108-10-1	4-Methyl-2-pentanone	NA	NA	NA	0.000248	U	0.000248	0.00199
67-64-1	Acetone	70000	NA	19	0.000602	U	0.000602	0.00497
71-43-2	Benzene	2	5	0.005	0.000181	U	0.000181	0.00199
74-97-5	Bromochloromethane	NA	NA	NA	0.000367	U	0.000367	0.00199
75-27-4	Bromodichloromethane	1	3	0.005	0.000249	U	0.000249	0.00199
75-25-2	Bromoform	81	280	0.03	0.000349	U	0.000349	0.00199
74-83-9	Bromomethane	25	59	0.04	0.000573	U	0.000573	0.00199
75-15-0	Carbon disulfide	7800	110000	6	0.000285	U	0.000285	0.00199
56-23-5	Carbon Tetrachloride	2	4	0.005	0.000299	U	0.000299	0.00199
108-90-7	Chlorobenzene	510	7400	0.6	0.000288	U	0.000288	0.00199
124-48-1	Chlorodibromomethane	3	8	0.005	0.000244	U	0.000244	0.00199
75-00-3	Chloroethane	220	1100	NA	0.000339	U	0.000339	0.00199
67-66-3	Chloroform	0.6	2	0.4	0.000334	U	0.000334	0.00199
74-87-3	Chloromethane	4	12	NA	0.000765	U	0.000765	0.00199

Client: Village of Ridgewood
Project: Bergen Community College
Date:10/8/2019
File No: ANS-5326

Sample Collected: 9/27/2019

Work Order 9091335		NJDEP Soil Remediation Standards 2017						
Lab: Aqua Pro-Tech Laboratories		NJDEP Residential Direct Contact Standard 9/2017	NJDEP Non-Residential Direct Contact Standard 9/2017	NJDEP Impact To Ground Water Standard 11/2013	9091335-01			
Client: ANS Consultants - 131 North Maple Ave, Ridgewood, NY					ANS-5326-S1			
CAS#	Compound				09/27/2019 13:00			
156-59-2	cis-1,2-Dichloroethene	230	560	0.3	0.0000961	U	0.0000961	0.00199
10061-01-5	cis-1,3-Dichloropropene	2	7	0.005	0.000251	U	0.000251	0.00199
110-82-7	Cyclohexane	NA	NA	NA	0.00044	U	0.00044	0.00199
75-71-8	Dichlorodifluoromethane	490	230000	39	0.000671	U	0.000671	0.00199
100-41-4	EthylBenzene	7800	110000	13	0.000269	U	0.000269	0.00199
98-82-8	Isopropylbenzene	NA	NA	NA	0.000312	U	0.000312	0.00199
179601-23-1	m+p-Xylenes	12000	170000	19	0.000502	U	0.000502	0.00398
79-20-9	Methyl Acetate	78000	NA	22	0.000263	U	0.000263	0.00199
1634-04-4	Methyl tert-Butyl Ether	110	320	0.2	0.000336	U	0.000336	0.00199
108-87-2	Methylcyclohexane	NA	NA	NA	0.00032	U	0.00032	0.00199
75-09-2	Methylene Chloride	46	230	0.01	0.000597	U	0.000597	0.00199
95-47-6	o-Xylene	12000	170000	19	0.000255	U	0.000255	0.00199
100-42-5	Styrene	90	260	3	0.000284	U	0.000284	0.00199
75-65-0	tert-Butyl alcohol	1400	11000	0.3	0.00417	U	0.00417	0.0199
127-18-4	Tetrachloroethene	43	1500	0.005	0.000197	U	0.000197	0.00199
108-88-3	Toluene	6300	91000	7	0.00016	U	0.00016	0.00199
1330-20-7	Total Xylenes	12000	170000	19	0.000255	U	0.000255	0.00199
156-60-5	trans-1,2-Dichloroethene	300	720	0.6	0.000269	U	0.000269	0.00199
10061-02-6	trans-1,3-Dichloropropene	2	7	0.005	0.00038	U	0.00038	0.00199
79-01-6	Trichloroethene	3	10	0.01	0.000292	U	0.000292	0.00199
75-69-4	Trichlorofluoromethane	23000	340000	34	0.000229	U	0.000229	0.00199
75-01-4	Vinyl chloride	0.7	2	0.005	0.000378	U	0.000378	0.00199
NA	Tentatively Identified Compounds				0.00	J		

Main Footnotes:

Standards listed are based upon APL's interpretation of the published documents.
APL assumes no liability for the interpretation and/or accuracy of the standards.

Qualifiers:

U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
D - Indicates result is based on a dilution
E - Concentration exceeds highest calibration standard
B - Indicates compound found in associated blank
H - Indicates a Hold Time violation
P - Indicates a Greater than 25% diff. between 2 GC columns.

APL 9091335

CHAIN OF CUSTODY

www.aquaprotechlabs.com

TEL: 973.227.0422
FAX: 973.227.2813

CLIENT: ANS Consultants	SEND REPORT TO:
ADDRESS: 4405 South Clinton Ave. South Plainfield, NJ 07080	ADDRESS: 4405 South Clinton Ave. South Plainfield, NJ 07080
PHONE: 908-754-8383	PHONE: 908-754-8383
E-MAIL: ansgeoinc@yahoo.com Nehapatel@ansconsultants.net	FAX: 908-754-8633
PROJECT NAME: 131 North Maple Ave Ridgewood NY	SEND INVOICE TO: MR. ATUL SHAH, PE
PROJECT MGR: MR. ATUL SHAH, PE	ADDRESS: Same as above
PROJECT or PO #: ANS-5326	SAMPLED BY: Serge

Client: Village of Ridgewood

TURN-AROUND TIME

APL STANDARD 2 weeks
RUSH (choose one below)
- ☐ 24 hr. date & time required
- ☐ 48 hr. date & time required
- ☐ 72 hr. date & time required
- ☒ 1 week

REPORT FORMAT
- X RESULTS ONLY
- NJ DEP REDUCED
- NJ DEP FULL
- STATEFORMS/E2 REPORTING

PWSID#

ELECTRONIC FORMAT
- I X I EMAIL DELIVERY
- I I HAZSITE EDO
- I X I EXCEL

SKP#

Intermediate Reduced Deliverables

CONTAMINATION LEVEL

I HIGH I I MEDIUM I I LOW

MATRIX ABBREVIATIONS: D - DRINKING WATER G - GROUNDWATER W - WASTEWATER S - SOIL SL - SLUDGE C - CONCRETE L - LAKE

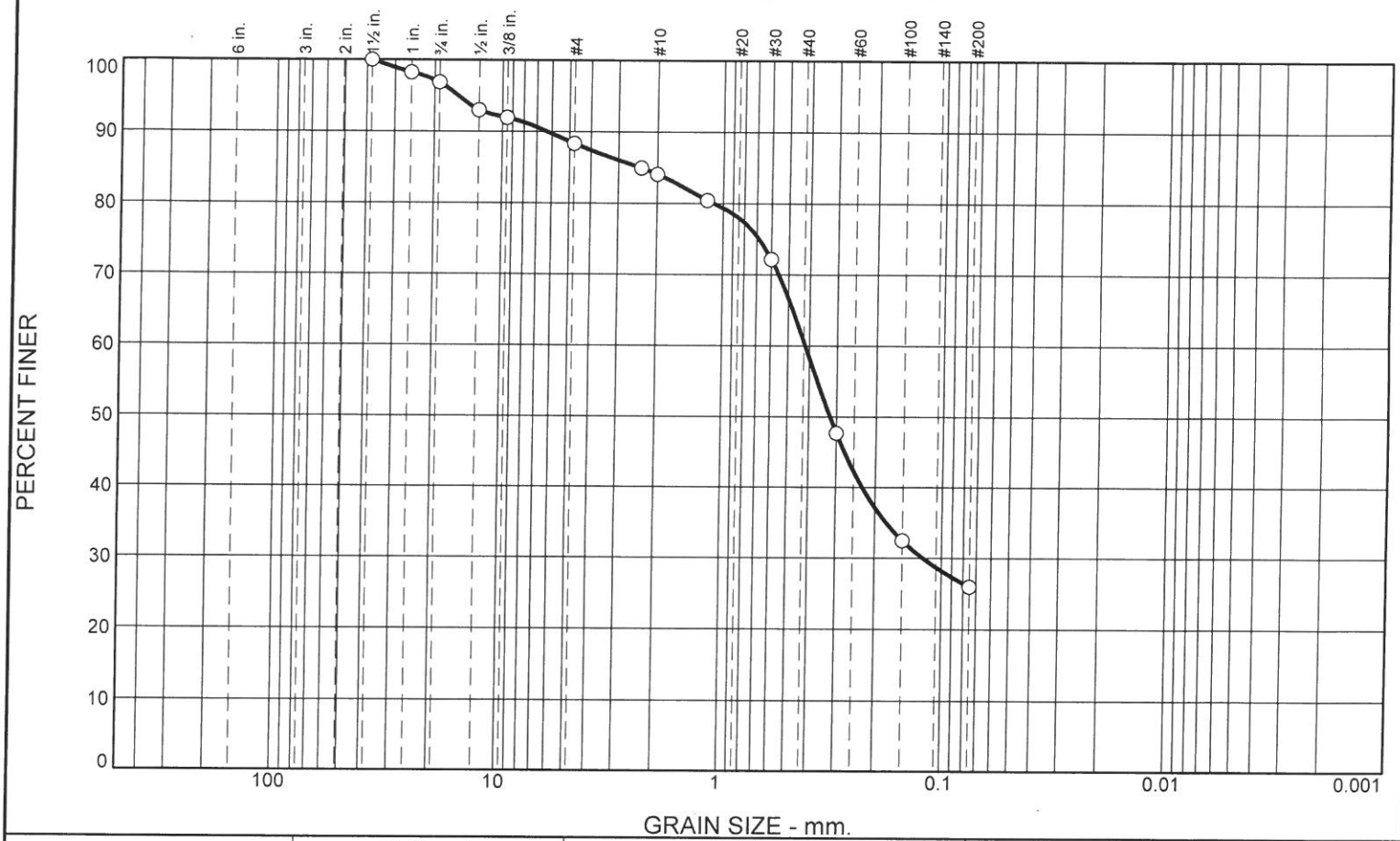
APL Lab ID#	Sample Source: Field ID	Date	Time	Sample Type: GRAB	Sample Type: COMPT	Matrix	No. of Bottles	Preservative	Analysis Requested
9091335-01	ANS-5326-S1	09/27/2019	1:00 pm		X	S	2, 8 oz. bottles & 3 Encores		TAL/TCL, pH, EPH, Chromium Hex. and Chromium Tri.

RELINQUISHED BY (Print)	DATE 9-27-19	RECEIVED BY (Print)	
Signature	Time 3:30	Signature	
RELINQUISHED BY (Print)	DATE 9-27-19	RECEIVED BY (Print)	
Signature	Time 6:00	Signature	
RELINQUISHED BY (Print)	DATE	RECEIVED BY (Print)	
Signature	Time	Signature	
COMMENTS/SPECIAL INSTRUCTIONS		Cooler Temp. upon receipt at lab	4.1

CERTIFICATIONS: NELAP (National Environmental Laboratory Accredation Program) NJDEP #07010 PADEP #68-02903 NYDOH #11634 CTPH #0233 US ARMY

By signing this Chain of Custody Agreement, customer expressly agrees to pay APL for all charges, reasonably incurred in connection with analysis and reporting for these samples

Particle Size Distribution Report As per ASTM D 422



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	3.2	8.5	4.2	23.5	34.6	26.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.5	100.0		
1	98.2		
3/4	96.8		
1/2	93.0		
3/8	91.9		
#4	88.3		
#8	84.9		
#10	84.1		
#16	80.4		
#30	72.2		
#50	47.6		
#100	32.5		
#200	26.0		

* (no specification provided)

Material Description

Brown in color. silty sand

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D_{90}= 6.3186 D_{85}= 2.3965 D_{60}= 0.4181
D_{50}= 0.3212 D_{30}= 0.1213 D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SM AASHTO= A-2-4(0)

Remarks

Sample was collected by Mr. Sergy on 09/26/19 and tested on 09/30/19. In-Situ %MC=4.5
F.M.=2.05

Source of Sample: On-Site material
Sample Number: S-1

Date: 09/30/2019

ANS CONSULTANTS, INC.

South Plainfield, New Jersey

Client: Village of Ridgewood
Project: 131 North Maple Avenue, Ridgewood, NJ
Project No: ANS-5326

Figure 1 F 1

APPENDIX D

533 WYNDEMERE AVENUE ANALYTICAL DATA

CONSULTANTS, INC.
4405 South Clinton Avenue
South Plainfield, NJ 07080

Tel: (800) 545-ATUL
(908) 754-8383
Fax: (908) 754-8633

NJ EDA Approved Testing Laboratory • MBE/DBE Certified • NJ DEP Certified
www.ANSConsultants.net

May 19, 2021

DJR Renovations LLC
340 Fairway Road
Ridgewood, NJ 07450

Attn: Mr. Don Rick

Re: "Clean Fill" Testing of Soil Sample-TAL/TCL Test
Soil sample marked as # ANS-5727-S1
533 Wyndmere Avenue
Ridgewood, NJ 07450

Dear Mr. Rick,

Enclosed, please find a laboratory test report for one soil sample collected on May 10, 2021 for the project referenced above. Sample ANS-5727-S1 is collected from 8' depth from the testpit. The primary purpose of the sampling and analytical work was to determine the presence of any hazardous contaminants in the soil.

Sample was analyzed for Target Compound List (TCL), Target Analyte List (TAL), Total Petroleum Hydrocarbon (TPHC- by EPH Method), pH, Chromium Hexavalent and Chromium Trivalent. Test results were reviewed against N.J. D.E.P. Residential, Non-Residential Direct Contact Soil Remediation Standard and Impact to Groundwater soil screening level criteria effective from September 18, 2017.

EPH concentration of 117 ppm was noted in this sample. (EPH concentration below fractionation trigger of 1700 ppm).

Contamination was not encountered exceeding NJDEP Residential and Non-Residential Standards in this sample.

However, **Aluminum** and **Manganese** exceeded Impact to Groundwater soil screening level criteria; but the Groundwater Quality Standards (GWQS) for **Aluminum** and **Manganese** are secondary, that is they are not based on health considerations. Additionally, these elements may be found as background contaminants. Therefore, Department does not require to address IGW pathway for these contaminants unless there is cause to believe that their presence is due to a site discharge.

Should you have any question or require additional information, please do not hesitate to contact the undersigned at (908) 754 - 8383.

Sincerely,
ANS CONSULTANTS, INC.

Atul Shah, PE, F.ASCE
President
NJ PE License #24GE03443900
ANS/NP

File: ANS-5727. TAL-TCL.01

Client: DRJ Renovations, LLC
Project: 533 Wyndemere Ave, Ridgewood, NJ
Date:5/19/2021
File No: ANS-5727

Sample Collected: 5/11/2021

Work Order 1050518								
Lab: Aqua Pro-Tech Laboratories								
Client: ANS Consultants - 533 Wyndemere Ave, Ridgewood, NJ		NJDEP Soil Remediation Standards 2017						
		NJDEP Residential Direct Contact Standard 9/2017	NJDEP Non-Residential Direct Contact Standard 9/2017	NJDEP Impact To Ground Water Standard 11/2013	1050518-01 ANS-5727-S1 05/11/2021 00:00 Soil			
CAS#	Compound							
Extractable Petroleum Hydrocarbons Category 2 (mg/kg)					Result	Qualifier	MDL	RL
NJDEP-EPH2	Total EPH	NA	NA	NA	**117**		10.5	21
General Chemistry (%)					Result	Qualifier		ZERO
PERSOL	Percent Solids	NA	NA	NA	**95.4**			
General Chemistry (mg/kg)					Result	Qualifier		RL
18540-29-9	Chromium, Hexavalent	240	20	s spec.	0.414	U		0.414
57-12-5	Cyanide	47	680	20	0.267	U		0.267
General Chemistry (mV)					Result	Qualifier		RL
	Redox Potential	NA	NA	NA	**189**			-1000
General Chemistry (pH Units)					Result	Qualifier		RL
	pH	NA	NA	NA	**5.30**			0.0100
PCBs (mg/kg)					Result	Qualifier	MDL	RL
12674-11-2	Aroclor-1016	0.2	1	0.2	0.00464	U	0.00464	0.0346
11104-28-2	Aroclor-1221	0.2	1	0.2	0.00913	U	0.00913	0.0346
11141-16-5	Aroclor-1232	0.2	1	0.2	0.0116	U	0.0116	0.0346
53469-21-9	Aroclor-1242	0.2	1	0.2	0.0068	U	0.0068	0.0346
12672-29-6	Aroclor-1248	0.2	1	0.2	0.00711	U	0.00711	0.0346
11097-69-1	Aroclor-1254	0.2	1	0.2	0.00558	U	0.00558	0.0346
11096-82-5	Aroclor-1260	0.2	1	0.2	0.00433	U	0.00433	0.0346
37324-23-5	Aroclor-1262	0.2	1	0.2	0.00931	U	0.00931	0.0346
11100-14-4	Aroclor-1268	0.2	1	0.2	0.00419	U	0.00419	0.0346
1336-36-3	Total PCBs	0.2	1	0.2	0.00323	U	0.00323	0.0346
Pesticides (mg/kg)					Result	Qualifier	MDL	RL
72-54-8	4,4'-DDD	3	13	4	0.000624	U	0.000624	0.00136
72-55-9	4,4'-DDE	2	9	18	0.000746	U	0.000746	0.00136
50-29-3	4,4'-DDT	2	8	11	0.000963	U	0.000963	0.00136
309-00-2	Aldrin	0.04	0.2	0.2	0.000646	U	0.000646	0.00136
319-84-6	alpha-BHC	0.1	0.5	0.002	0.000406	U	0.000406	0.00136
319-85-7	beta-BHC	0.4	2	0.002	0.000651	U	0.000651	0.00136
57-74-9	Chlordane	0.2	1	0.05	0.000606	U	0.000606	0.00136
319-86-8	delta-BHC	NA	NA	NA	0.000633	U	0.000633	0.00136
60-57-1	Dieldrin	0.04	0.2	0.003	0.000713	U	0.000713	0.00136
959-98-8	Endosulfan I	470	6800	4	0.000644	U	0.000644	0.00136
33213-65-9	Endosulfan II	470	6800	4	0.00062	U	0.00062	0.00136
1031-07-8	Endosulfan sulfate	470	6800	2	0.000513	U	0.000513	0.00136
72-20-8	Endrin	23	340	1	0.000471	U	0.000471	0.00136
7421-93-4	Endrin aldehyde	NA	NA	NA	0.000543	U	0.000543	0.00136
53494-70-5	Endrin ketone	NA	NA	NA	0.00048	U	0.00048	0.00136
58-89-9	gamma-BHC (Lindane)	0.4	2	0.002	0.000432	U	0.000432	0.00136
76-44-8	Heptachlor	0.1	0.7	0.5	0.000365	U	0.000365	0.00136
1024-57-3	Heptachlor Epoxide	0.07	0.3	0.01	0.000688	U	0.000688	0.00136
72-43-5	Methoxychlor	390	5700	160	0.0004	U	0.0004	0.00136
8001-35-2	Toxaphene	0.6	3	0.3	0.0657	U	0.0657	0.0692
Semivolatile Organics - GC/MS (mg/kg)					Result	Qualifier	MDL	RL
122-66-7	1,2-Diphenylhydrazine	0.7	2	0.7	0.0152	U	0.0152	0.139
58-90-2	2,3,4,6-Tetrachlorophenol	NA	NA	NA	0.0215	U	0.0215	0.139
95-95-4	2,4,5-Trichlorophenol	6100	68000	68	0.019	U	0.019	0.139
88-06-2	2,4,6-Trichlorophenol	19	74	0.2	0.00873	U	0.00873	0.139
120-83-2	2,4-Dichlorophenol	180	2100	0.2	0.0141	U	0.0141	0.139
105-67-9	2,4-Dimethylphenol	1200	14000	1	0.0137	U	0.0137	0.139
51-28-5	2,4-Dinitrophenol	120	1400	0.3	0.0201	U	0.0201	0.699
121-14-2	2,4-Dinitrotoluene	0.7	3	0.2	0.0149	U	0.0149	0.139
606-20-2	2,6-Dinitrotoluene	0.7	3	0.2	0.0333	U	0.0333	0.139
91-58-7	2-Chloronaphthalene	NA	NA	NA	0.016	U	0.016	0.139

Client: DRJ Renovations, LLC
Project: 533 Wyndemere Ave, Ridgewood, NJ
Date:5/19/2021
File No: ANS-5727

Sample Collected: 5/11/2021

Work Order 1050518								
Lab: Aqua Pro-Tech Laboratories								
Client: ANS Consultants - 533 Wyndemere Ave, Ridgewood, NJ		NJDEP Soil Remediation Standards 2017						
		NJDEP Residential Direct Contact Standard 9/2017	NJDEP Non-Residential Direct Contact Standard 9/2017	NJDEP Impact To Ground Water Standard 11/2013	1050518-01 ANS-5727-S1 05/11/2021 00:00 Soil			
CAS#	Compound							
95-57-8	2-Chlorophenol	310	2200	0.8	0.0185	U	0.0185	0.139
91-57-6	2-Methylnaphthalene	230	2400	8	0.0335	U	0.0335	0.21
95-48-7	2-Methylphenol	310	3400	NA	0.0276	U	0.0276	0.139
88-74-4	2-Nitroaniline	39	23000	NA	0.0112	U	0.0112	0.139
88-75-5	2-Nitrophenol	NA	NA	NA	0.0155	U	0.0155	0.139
91-94-1	3,3'-Dichlorobenzidine	1	4	0.2	0.0147	U	0.0147	0.139
65794-96-9	3+4-Methylphenol	31	340	NA	0.0256	U	0.0256	0.139
99-09-2	3-Nitroaniline	NA	NA	NA	0.0259	U	0.0259	0.139
534-52-1	4,6-Dinitro-2-methylphenol	6	68	0.3	0.0263	U	0.0263	0.349
101-55-3	4-Bromophenyl-phenyl ether	NA	NA	NA	0.0199	U	0.0199	0.139
59-50-7	4-Chloro-3-methylphenol	NA	NA	NA	0.022	U	0.022	0.139
106-47-8	4-Chloroaniline	NA	NA	NA	0.00489	U	0.00489	0.139
7005-72-3	4-Chlorophenyl phenyl ether	NA	NA	NA	0.00754	U	0.00754	0.139
100-01-6	4-Nitroaniline	NA	NA	NA	0.0698	U	0.0698	0.139
100-02-7	4-Nitrophenol	NA	NA	NA	0.00893	U	0.00893	0.139
83-32-9	Acenaphthene	3400	37000	110	0.00796	U	0.00796	0.139
208-96-8	Acenaphthylene	NA	300000	NA	0.00485	U	0.00485	0.139
98-86-2	Acetophenone	2	5	3	0.0138	U	0.0138	0.139
120-12-7	Anthracene	17000	30000	2400	0.0202	U	0.0202	0.139
1912-24-9	Atrazine	210	2400	0.2	0.0131	U	0.0131	0.139
100-52-7	Benzaldehyde	6100	68000	NA	0.0429	U	0.0429	0.139
92-87-5	Benzidine	0.7	0.7	0.7	0.319	U	0.319	0.349
56-55-3	Benzo(a)anthracene	5	17	0.8	0.0141	U	0.0141	0.139
50-32-8	Benzo(a)pyrene	0.5	2	0.2	0.0243	U	0.0243	0.139
205-99-2	Benzo(b)fluoranthene	5	17	2	0.0196	U	0.0196	0.139
191-24-2	Benzo(g,h,i)perylene	380000	30000	NA	0.0113	U	0.0113	0.139
207-08-9	Benzo(k)fluoranthene	45	170	25	0.016	U	0.016	0.139
92-52-4	Biphenyl	61	240	140	0.0123	U	0.0123	0.139
111-91-1	bis(2-chloroethoxy)methane	NA	NA	NA	0.0193	U	0.0193	0.139
111-44-4	bis(2-chloroethyl)ether	0.4	2	0.2	0.0153	U	0.0153	0.139
108-60-1	bis(2-chloroisopropyl)ether	23	67	5	0.0502	U	0.0502	0.139
117-81-7	bis(2-ethylhexyl)phthalate	35	140	1200	0.0279	U	0.0279	0.139
85-68-7	Butylbenzylphthalate	1200	14000	230	0.0127	U	0.0127	0.139
105-60-2	Caprolactam	31000	340000	12	0.018	U	0.018	0.139
86-74-8	Carbazole	24	96	NA	0.0268	U	0.0268	0.349
218-01-9	Chrysene	450	1700	80	0.00956	U	0.00956	0.139
53-70-3	Dibenzo(a,h)anthracene	0.5	2	0.8	0.0138	U	0.0138	0.139
132-64-9	Dibenzofuran	NA	NA	NA	0.00832	U	0.00832	0.139
84-66-2	Diethylphthalate	49000	550000	88	0.0271	U	0.0271	0.139
131-11-3	Dimethylphthalate	NA	NA	NA	0.00866	U	0.00866	0.139
84-74-2	Di-n-butylphthalate	6100	68000	760	0.057	U	0.057	0.139
117-84-0	Di-n-octylphthalate	2400	27000	3300	0.0286	U	0.0286	0.139
206-44-0	Fluoranthene	2300	24000	1300	0.0131	U	0.0131	0.139
86-73-7	Fluorene	2300	24000	170	0.0116	U	0.0116	0.139
118-74-1	Hexachlorobenzene	0.3	1	0.2	0.0182	U	0.0182	0.139
87-68-3	Hexachlorobutadiene	6	25	0.9	0.067	U	0.067	0.139
77-47-4	Hexachlorocyclopentadiene	45	110	320	0.0582	U	0.0582	0.349
67-72-1	Hexachloroethane	12	48	0.2	0.0153	U	0.0153	0.139
193-39-5	Indeno(1,2,3-cd)pyrene	5	17	7	0.015	U	0.015	0.139
78-59-1	Isophorone	510	2000	0.2	0.00914	U	0.00914	0.139
91-20-3	Naphthalene	6	17	25	0.0103	U	0.0103	0.139
98-95-3	Nitrobenzene	5	14	0.2	0.0237	U	0.0237	0.139
62-75-9	n-Nitroso-dimethylamine	0.7	0.7	0.7	0.0497	U	0.0497	0.139
621-64-7	n-Nitroso-di-n-propylamine	0.2	0.3	0.2	0.00748	U	0.00748	0.139

Client: DRJ Renovations, LLC
Project: 533 Wyndemere Ave, Ridgewood, NJ
Date:5/19/2021
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Sample Collected: 5/11/2021

Work Order 1050518								
Lab: Aqua Pro-Tech Laboratories								
Client: ANS Consultants - 533 Wyndemere Ave, Ridgewood, NJ		NJDEP Soil Remediation Standards 2017						
		NJDEP Residential Direct Contact Standard 9/2017	NJDEP Non-Residential Direct Contact Standard 9/2017	NJDEP Impact To Ground Water Standard 11/2013	**1050518-01 ANS-5727-S1 05/11/2021 00:00 Soil**			
CAS#	**Compound**							
86-30-6	n-Nitrosodiphenylamine	99	390	0.4	0.0298	U	0.0298	0.139
87-86-5	Pentachlorophenol	0.9	3	0.3	0.0192	U	0.0192	0.349
85-01-8	Phenanthrene	NA	300000	NA	0.0184	U	0.0184	0.139
108-95-2	Phenol	18000	210000	8	0.0113	U	0.0113	0.139
129-00-0	Pyrene	1700	18000	840	0.0103	U	0.0103	0.139
NA	Tentatively Identified Compounds				0.00	J		
Total Metals (mg/kg)					Result	Qualifier		RL
7429-90-5	Aluminum	78000	NA	6000	**8420**			2.65
7440-36-0	Antimony	31	450	6	1.32	U		1.32
7440-38-2	Arsenic	19	19	19	1.48			1.32
7440-39-3	Barium	16000	59000	2100	34.7			0.530
7440-41-7	Beryllium	16	140	0.7	0.277			0.0265
7440-43-9	Cadmium	78	78	2	0.265	U		0.265
7440-70-2	Calcium	NA	NA	NA	265			26.5
7440-47-3	Chromium	120000	NA	s spec.	7.47			0.265
16065-83-1	Chromium, Trivalent	NA	NA	NA	7.47			0.265
7440-48-4	Cobalt	1600	590	90	3.39			0.212
7440-50-8	Copper	3100	45000	11000	6.75			0.265
7439-89-6	Iron	NA	NA	NA	11400			5.30
7439-92-1	Lead	400	800	90	4.45			1.32
7439-95-4	Magnesium	NA	NA	NA	2200			53.0
7439-96-5	Manganese	11000	5900	65	**239**			0.265
7439-97-6	Mercury	23	65	0.1	0.0485	U		0.0485
7440-02-0	Nickel	1600	23000	48	8.84			0.132
7440-09-7	Potassium	NA	NA	NA	638			106
7782-49-2	Selenium	390	5700	11	1.32	U		1.32
7440-22-4	Silver	390	5700	1	0.53	U		0.530
7440-23-5	Sodium	NA	NA	NA	73.6			53.0
7440-28-0	Thallium	NA	NA	3	1.32	U		1.32
7440-62-2	Vanadium	78	1100	NA	10.8			0.530
7440-66-6	Zinc	23000	110000	930	24.1			0.794
Volatile Organics - GC/MS (mg/kg)					Result	Qualifier	MDL	RL
71-55-6	1,1,1-Trichloroethane	160000	NA	0.3	0.000201	U	0.000201	0.00138
79-34-5	1,1,2,2-Tetrachloroethane	1	3	0.007	0.00019	U	0.00019	0.00138
76-13-1	1,1,2-Trichloro-1,2,2 Trifluoroethane	NA	NA	NA	0.000591	U	0.000591	0.00138
79-00-5	1,1,2-Trichloroethane	2	6	0.02	0.000232	U	0.000232	0.00138
75-34-3	1,1-Dichloroethane	8	24	0.2	0.000201	U	0.000201	0.00138
75-35-4	1,1-Dichloroethene	11	150	0.008	0.000255	U	0.000255	0.00138
87-61-6	1,2,3-Trichlorobenzene	NA	NA	NA	0.000298	U	0.000298	0.00138
120-82-1	1,2,4-Trichlorobenzene	73	820	0.7	0.000368	U	0.000368	0.00138
95-63-6	1,2,4-Trimethylbenzene	NA	NA	NA	0.00617		0.00019	0.00138
96-12-8	1,2-Dibromo-3-chloropropane	0.08	0.2	0.005	0.000337	U	0.000337	0.00345
106-93-4	1,2-Dibromoethane	0.008	0.04	0.005	0.000174	U	0.000174	0.00138
95-50-1	1,2-Dichlorobenzene	5300	59000	17	0.000244	U	0.000244	0.00138
107-06-2	1,2-Dichloroethane	0.9	3	0.005	0.000195	U	0.000195	0.00138
78-87-5	1,2-Dichloropropane	2	5	0.005	0.000226	U	0.000226	0.00138
541-73-1	1,3-Dichlorobenzene	5300	59000	19	0.000101	U	0.000101	0.00138
106-46-7	1,4-Dichlorobenzene	5	13	2	0.000199	U	0.000199	0.00138
78-93-3	2-Butanone	3100	44000	0.9	0.000225	U	0.000225	0.00345
591-78-6	2-Hexanone	NA	NA	NA	0.000129	U	0.000129	0.00138
108-10-1	4-Methyl-2-pentanone	NA	NA	NA	0.000172	U	0.000172	0.00138
67-64-1	Acetone	70000	NA	19	0.000418	U	0.000418	0.00345
107-02-8	Acrolein	0.5	1	0.5	0.000745	U	0.000745	0.00138
107-13-1	Acrylonitrile	0.9	3	0.5	0.000322	U	0.000322	0.00138

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Sample Collected: 5/11/2021

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Lab: Aqua Pro-Tech Laboratories								
Client: ANS Consultants - 533 Wyndemere Ave, Ridgewood, NJ		NJDEP Soil Remediation Standards 2017						
		NJDEP	NJDEP	NJDEP	**1050518-01**			
		Residential	Non-Residential	Impact To	**ANS-5727-S1**			
		Direct Contact	Direct Contact	Ground Water	**05/11/2021 00:00**			
		Standard	Standard	Standard	**Soil**			
		9/2017	9/2017	11/2013				
CAS#	**Compound**							
71-43-2	Benzene	2	5	0.005	0.000126	U	0.000126	0.00138
74-97-5	Bromochloromethane	NA	NA	NA	0.000255	U	0.000255	0.00138
75-27-4	Bromodichloromethane	1	3	0.005	0.000173	U	0.000173	0.00138
75-25-2	Bromoform	81	280	0.03	0.000242	U	0.000242	0.00138
74-83-9	Bromomethane	25	59	0.04	0.000398	U	0.000398	0.00138
75-15-0	Carbon disulfide	7800	110000	6	0.000198	U	0.000198	0.00138
56-23-5	Carbon Tetrachloride	2	4	0.005	0.000208	U	0.000208	0.00138
108-90-7	Chlorobenzene	510	7400	0.6	0.0002	U	0.0002	0.00138
124-48-1	Chlorodibromomethane	3	8	0.005	0.00017	U	0.00017	0.00138
75-00-3	Chloroethane	220	1100	NA	0.000235	U	0.000235	0.00138
67-66-3	Chloroform	0.6	2	0.4	0.000232	U	0.000232	0.00138
74-87-3	Chloromethane	4	12	NA	0.000531	U	0.000531	0.00138
156-59-2	cis-1,2-Dichloroethene	230	560	0.3	0.0000667	U	0.0000667	0.00138
10061-01-5	cis-1,3-Dichloropropene	2	7	0.005	0.000175	U	0.000175	0.00138
110-82-7	Cyclohexane	NA	NA	NA	0.000306	U	0.000306	0.00138
75-71-8	Dichlorodifluoromethane	490	230000	39	0.000466	U	0.000466	0.00138
100-41-4	EthylBenzene	7800	110000	13	0.00102	J	0.000187	0.00138
98-82-8	Isopropylbenzene	NA	NA	NA	0.000217	U	0.000217	0.00138
179601-23-1	m+p-Xylenes	12000	170000	19	0.00620		0.000348	0.00276
79-20-9	Methyl Acetate	78000	NA	22	0.000183	U	0.000183	0.00138
1634-04-4	Methyl tert-Butyl Ether	110	320	0.2	0.000233	U	0.000233	0.00138
108-87-2	Methylcyclohexane	NA	NA	NA	0.000222	U	0.000222	0.00138
75-09-2	Methylene Chloride	46	230	0.01	0.000415	U	0.000415	0.00138
95-47-6	o-Xylene	12000	170000	19	0.00174		0.000177	0.00138
100-42-5	Styrene	90	260	3	0.000197	U	0.000197	0.00138
75-65-0	tert-Butyl alcohol	1400	11000	0.3	0.0029	U	0.0029	0.0138
127-18-4	Tetrachloroethene	43	1500	0.005	0.000137	U	0.000137	0.00138
108-88-3	Toluene	6300	91000	7	0.000111	U	0.000111	0.00138
1330-20-7	Total Xylenes	12000	170000	19	0.00794		0.000177	0.00138
156-60-5	trans-1,2-Dichloroethene	300	720	0.6	0.000187	U	0.000187	0.00138
10061-02-6	trans-1,3-Dichloropropene	2	7	0.005	0.000264	U	0.000264	0.00138
79-01-6	Trichloroethene	3	10	0.01	0.000203	U	0.000203	0.00138
75-69-4	Trichlorofluoromethane	23000	340000	34	0.000159	U	0.000159	0.00138
75-01-4	Vinyl chloride	0.7	2	0.005	0.000262	U	0.000262	0.00138
NA	Tentatively Identified Compounds				0.00	J		

Main Footnotes:
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APL assumes no liability for the interpretation and/or accuracy of the standards.

Qualifiers:
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J - Indicates estimated value for TICs and all results when detected below the RL
D - Indicates result is based on a dilution
E - Concentration exceeds highest calibration standard
B - Indicates compound found in associated blank
H - Indicates a Hold Time violation
P - Indicates a Greater than 25% diff. between 2 GC columns.

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CONTAMINATION LEVEL
[ ] HIGH I [ ] MEDIUM [ ] LOW

CHAIN OF CUSTODY

CLIENT: ANS Consultants	SEND REPORT TO:
ADDRESS: 4405 South Clinton Ave. South Plainfield, NJ 07080	ADDRESS: 4405 South Clinton Ave. South Plainfield, NJ 07080
PHONE: 908-754-8383	PHONE: 908-754-8383
E-MAIL: ansgeoinc@yahoo.com nehapatel@ansconsultants.net	FAX: 908-754-8633
PROJECT NAME: 533 Wyndemere Ave, Ridgewood, NJ	SEND INVOICE TO: MR. ATUL SHAH, PE
PROJECT MGR: MR. ATUL SHAH, PE	ADDRESS: Same as above
PROJECT or PO #: ANS-5727	SAMPLED BY: Sunil Shah

Client: DJR Renovations, LLC.

TURN-AROUND TIME
[ ] APL STANDARD 2 week
[ ] RUSH (choose one below)
❑ 24 hr. date & time required
❑ 48 hr. date & time required
❑ 72 hr. date & time required
☒ 1 week

REPORT FORMAT
☒ RESULTS ONLY
[ ] NJ DEP REDUCED
[ ] NJ DEP FULL
[ ] STATE FORMS/E2REPORTING

ELECTRONIC FORMAT
☒ EMAIL DELIVERY
[ ] HAZSITE EDO
☒ EXCEL

PWSID# _____ SRP# _____

☒ Intermediate Reduced Deliverables

MATRIX ABBREVIATIONS: D - DRINKING WATER G - GROUNDWATER W - WASTEWATER S - SOIL SL - SLUDGE C - CONCRETE L - LAKE

APL Lab ID#	Sample Source: Field ID	Date	Time	Sample Type GRAB	Sample Type COMPT	Matrix	No. of Bottles	Preservative	Analysis Requested
1050518	ANS-5727-S1	5/10/2021	12:30 PM			S	2 - 8 oz jars, 3 Encores		TAL/TCL, pH, Chromium Hex. And Chromium Tri., EPH, VOCs, SVOC's, Metals, PCBs, Pesticides, Acrolein, Acrylonitrile, Benzidine, 1, 2-Diphenylhydrazine, N-Nitrosodimethylamine

RELINQUISHED BY (Print) Sharmin	DATE 5/11/21	RECEIVED BY (Print)	
Signature	Time 10:35 AM	Signature	
RELINQUISHED BY (Print)	DATE 5/11/21	RECEIVED BY (Print)	
Signature	Time 2:25 PM	Signature	
RELINQUISHED BY (Print)	DATE	RECEIVED BY (Print)	
Signature	Time	Signature	
COMMENTS/SPECIAL INSTRUCTIONS		Cooler Temp. upon receipt at lab 4.0	

CERTIFICATIONS: NELAP (National Environmental Laboratory Accredation Program) NJDEP #07018 PADEP #68-02903 NYDOH #11634 CTPH #0233 US ARMY
By signing this Chain of Custody Agreement, customer expressly agrees to pay APL for all charges, reasonably incurred in connection with analysis and reporting for these samples

APPENDIX E

RIDGEWOOD WATER DEBOER AVENUE AND ROUTE 208 ANALYTICAL DATA

Work Order 1080405											
Lab: Aqua Pro-Tech Laboratories											
Client: _One Time Client - Conquest Contracting			NJDEP 2021 Soil Remediation Standards								
		Lab ID:	NJDEP	NJDEP	NJDEP	NJDEP	NJDEP	1080405-01			
		Client ID:	Residential	Residential	Non-Residential	Non-Residential	Migration to	DeBoer & 208 Ramp			
		Date Sampled:	Ingestion-Dermal	Inhalation	Ingestion-Dermal	Inhalation	Ground Water	08/09/2021 11:00			
		Matrix:	SRS	SRS	SRS	SRS	SRS	Soil			
			May 2021	May 2021	May 2021	May 2021	May 2021				
CAS#	Compound	Type						Result	Qualifier	MDL	RL
Volatile Organics - GC/MS (mg/kg)											
71-55-6	1,1,1-Trichloroethane	TRG	160000	NA	NA	NA	0.2	0.000352	U	0.000352	0.00241
79-34-5	1,1,2,2-Tetrachloroethane	TRG	3.5	NA	18	NA	0.0069	0.000332	U	0.000332	0.00241
76-13-1	1,1,2-Trichloro-1,2,2 Trifluoroethane	TRG	NA	NA	NA	NA	NA	0.00103	U	0.00103	0.00241
79-00-5	1,1,2-Trichloroethane	TRG	12	NA	64	NA	0.017	0.000406	U	0.000406	0.00241
75-34-3	1,1-Dichloroethane	TRG	120	NA	640	NA	0.24	0.000352	U	0.000352	0.00241
75-35-4	1,1-Dichloroethene	TRG	11	52	180	240	0.0069	0.000446	U	0.000446	0.00241
87-61-6	1,2,3-Trichlorobenzene	TRG						0.00052	U	0.00052	0.00241
120-82-1	1,2,4-Trichlorobenzene	TRG	780	94	13000	NA	0.52	0.000642	U	0.000642	0.00241
95-63-6	1,2,4-Trimethylbenzene	TRG	780	NA	13000	NA	NA	0.000332	U	0.000332	0.00241
96-12-8	1,2-Dibromo-3-chloropropane	TRG	0.87	0.026	4.5	0.12	0.005	0.000588	U	0.000588	0.00602
106-93-4	1,2-Dibromoethane	TRG	0.35	0.085	1.8	0.41	0.005	0.000304	U	0.000304	0.00241
95-50-1	1,2-Dichlorobenzene	TRG	6700	NA	110000	NA	11	0.000425	U	0.000425	0.00241
107-06-2	1,2-Dichloroethane	TRG	5.8	71	30	320	0.0095	0.00034	U	0.00034	0.00241
78-87-5	1,2-Dichloropropane	TRG	19	5.7	98	27	0.0058	0.000395	U	0.000395	0.00241
541-73-1	1,3-Dichlorobenzene	TRG	6700	NA	110000	NA	11	0.000177	U	0.000177	0.00241
106-46-7	1,4-Dichlorobenzene	TRG	780	NA	13000	NA	1.4	0.000347	U	0.000347	0.00241
78-93-3	2-Butanone	TRG	47000	NA	780000	NA	0.98	0.0398		0.000393	0.00602
591-78-6	2-Hexanone	TRG	390	1000	6500	NA	0.15	0.000225	U	0.000225	0.00241
108-10-1	4-Methyl-2-pentanone	TRG	NA	NA	NA	NA	NA	0.000301	U	0.000301	0.00241
67-64-1	Acetone	TRG	70000	NA	NA	NA	19	0.275		0.00073	0.00602
71-43-2	Benzene	TRG	3	2.2	16	11	0.0094	0.000219	U	0.000219	0.00241
74-97-5	Bromochloromethane	TRG						0.000444	U	0.000444	0.00241
75-27-4	Bromodichloromethane	TRG	11	NA	59	NA	0.005	0.000302	U	0.000302	0.00241
75-25-2	Bromoform	TRG	88	NA	460	NA	0.018	0.000423	U	0.000423	0.00241
74-83-9	Bromomethane	TRG	110	18	1800	82	0.043	0.000695	U	0.000695	0.00241
75-15-0	Carbon disulfide	TRG	NA	NA	NA	NA	3.7	0.000346	U	0.000346	0.00241
56-23-5	Carbon Tetrachloride	TRG	7.6	1.4	40	6.9	0.0075	0.000363	U	0.000363	0.00241
108-90-7	Chlorobenzene	TRG	510	NA	8400	NA	0.64	0.000349	U	0.000349	0.00241
124-48-1	Chlorodibromomethane	TRG	8.3	NA	43	NA	0.005	0.000296	U	0.000296	0.00241
75-00-3	Chloroethane	TRG	NA	NA	NA	NA	NA	0.000411	U	0.000411	0.00241
67-66-3	Chloroform	TRG	780	590	13000	NA	0.33	0.000405	U	0.000405	0.00241
74-87-3	Chloromethane	TRG	NA	270	NA	1200	NA	0.000927	U	0.000927	0.00241
156-59-2	cis-1,2-Dichloroethene	TRG	780	NA	13000	NA	0.35	0.000116	U	0.000116	0.00241
10061-01-5	cis-1,3-Dichloropropene	TRG	7	4.8	36	23	0.0063	0.000305	U	0.000305	0.00241
110-82-7	Cyclohexane	TRG	NA	NA	NA	NA	NA	0.000534	U	0.000534	0.00241
75-71-8	Dichlorodifluoromethane	TRG	16000	NA	260000	NA	38	0.000813	U	0.000813	0.00241
100-41-4	EthylBenzene	TRG	7800	10	130000	48	15	0.000326	U	0.000326	0.00241
98-82-8	Isopropylbenzene	TRG	7800	NA	130000	NA	22	0.000378	U	0.000378	0.00241
179601-23-1	m+p-Xylenes	TRG	12000	NA	190000	NA	19	0.000608	U	0.000608	0.00482
79-20-9	Methyl Acetate	TRG	78000	NA	NA	NA	22	0.000319	U	0.000319	0.00241
1634-04-4	Methyl tert-Butyl Ether	TRG	780	140	13000	650	0.25	0.000407	U	0.000407	0.00241
108-87-2	Methylcyclohexane	TRG						0.000388	U	0.000388	0.00241
75-09-2	Methylene Chloride	TRG	50	1400	260	NA	0.013	0.000724	U	0.000724	0.00241
95-47-6	o-Xylene	TRG	12000	NA	190000	NA	19	0.00031	U	0.00031	0.00241
100-42-5	Styrene	TRG	16000	NA	260000	NA	2.1	0.000344	U	0.000344	0.00241
75-65-0	tert-Butyl alcohol	TRG	1400	NA	23000	NA	0.32	0.00506	U	0.00506	0.0241
127-18-4	Tetrachloroethene	TRG	330	47	1700	NA	0.0086	0.000238	U	0.000238	0.00241
108-88-3	Toluene	TRG	6300	NA	100000	NA	7.8	0.000194	U	0.000194	0.00241
1330-20-7	Total Xylenes	TRG	12000	NA	190000	NA	19	0.00031	U	0.00031	0.00241
156-60-5	trans-1,2-Dichloroethene	TRG	1300	NA	22000	NA	0.56	0.000326	U	0.000326	0.00241
10061-02-6	trans-1,3-Dichloropropene	TRG	7	4.8	36	23	0.0063	0.00046	U	0.00046	0.00241
79-01-6	Trichloroethene	TRG	15	3	79	14	0.0065	0.000354	U	0.000354	0.00241
75-69-4	Trichlorofluoromethane	TRG	23000	NA	390000	NA	29	0.000277	U	0.000277	0.00241
75-01-4	Vinyl chloride	TRG	0.97	1.4	5	6.4	0.0067	0.000458	U	0.000458	0.00241
NA	Tentatively Identified Compounds	TIC Total						0.00	J		

Main Footnotes:

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Key:

	Reporting Limit exceeds Reg Standard
	Value Exceeded One or More of the Criteria
	Detected in Sample
	E Qualified, may require Dilution

Specific Footnotes:

Work Order 1080405										
Lab: Aqua Pro-Tech Laboratories										
Client: _One Time Client - Conquest Contracting			NJDEP 2021 Soil Remediation Standards							
		Lab ID:	NJDEP	NJDEP	NJDEP	NJDEP	NJDEP	1080405-01		
		Client ID:	Residential	Residential	Non-Residential	Non-Residential	Migration to	DeBoer & 208 Ramp		
		Date Sampled:	Ingestion-Dermal	Inhalation	Ingestion-Dermal	Inhalation	Ground Water	08/09/2021 11:00		
		Matrix:	SRS	SRS	SRS	SRS	SRS	Soil		
			May 2021	May 2021	May 2021	May 2021	May 2021			
CAS#	Compound	Type						Result	Qualifier	RL
Total Metals (mg/kg)										
7429-90-5	Aluminum	TRG	78000	NA	NA	NA	NA	9240		3.32
7440-36-0	Antimony	TRG	31	NA	520	NA	5.4	1.66	U	1.66
7440-38-2	Arsenic	TRG	19	1100	19	5200	19	5.12		1.66
7440-39-3	Barium	TRG	16000	870000	260000	NA	2100	61.5		0.664
7440-41-7	Beryllium	TRG	160	2000	2600	9300	0.7	0.340		0.0332
7440-43-9	Cadmium	TRG	71	2600	1100	12000	1.9	0.332	U	0.332
7440-70-2	Calcium	TRG						3690		33.2
7440-47-3	Chromium	TRG						10.5		0.332
7440-48-4	Cobalt	TRG	23	520	390	2500	90	4.39		0.266
7440-50-8	Copper	TRG	3100	NA	52000	NA	910	27.9		0.332
7439-89-6	Iron	TRG						13500		6.64
7439-92-1	Lead	TRG	400	NA	800	NA	90	66.1		1.66
7439-95-4	Magnesium	TRG						2210		66.4
7439-96-5	Manganese	TRG	1900	87000	31000	400000	NA	183		0.332
7439-97-6	Mercury	TRG	23	520000	390	NA	0.1	0.105		0.0552
7440-02-0	Nickel	TRG	1600	20000	26000	93000	48	8.67		0.166
7440-09-7	Potassium	TRG						405		133
7782-49-2	Selenium	TRG	390	NA	6500	NA	11	1.66	U	1.66
7440-22-4	Silver	TRG	390	NA	6500	NA	0.5	0.199	U	0.199
7440-23-5	Sodium	TRG						1710		66.4
7440-28-0	Thallium	TRG						1.66	U	1.66
7440-62-2	Vanadium	TRG	390	170000	6500	800000	NA	27.7		0.664
7440-66-6	Zinc	TRG	23000	NA	390000	NA	930	56.9		0.997

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Specific Footnotes:

Work Order 1080405										
Lab: Aqua Pro-Tech Laboratories										
Client: _One Time Client - Conquest Contracting			NJDEP 2021 Soil Remediation Standards							
		Lab ID:	NJDEP	NJDEP	NJDEP	NJDEP	NJDEP			1080405-01
		Client ID:	Residential	Residential	Non-Residential	Non-Residential	Migration to			DeBoer & 208 Ramp
		Date Sampled:	Ingestion-Dermal	Inhalation	Ingestion-Dermal	Inhalation	Ground Water			08/09/2021 11:00
		Matrix:	SRS	SRS	SRS	SRS	SRS			Soil
			May 2021	May 2021	May 2021	May 2021	May 2021			
CAS#	Compound	Type								
Extractable Petroleum Hydrocarbons Category 2 (mg/kg)								Result	Qualifier	MDL
NJDEP-EPH2	Total EPH	TRG						245		13.5
PCBs (mg/kg)								Result	Qualifier	MDL
12674-11-2	Aroclor-1016	TRG	0.25	NA	1.1	NA	1.6	0.00597	U	0.00597
11104-28-2	Aroclor-1221	TRG	0.25	NA	1.1	NA	1.6	0.0117	U	0.0117
11141-16-5	Aroclor-1232	TRG	0.25	NA	1.1	NA	1.6	0.0149	U	0.0149
53469-21-9	Aroclor-1242	TRG	0.25	NA	1.1	NA	1.6	0.00875	U	0.00875
12672-29-6	Aroclor-1248	TRG	0.25	NA	1.1	NA	1.6	0.00915	U	0.00915
11097-69-1	Aroclor-1254	TRG	0.25	NA	1.1	NA	1.6	0.00718	U	0.00718
11096-82-5	Aroclor-1260	TRG	0.25	NA	1.1	NA	1.6	0.00557	U	0.00557
37324-23-5	Aroclor-1262	TRG	0.25	NA	1.1	NA	1.6	0.012	U	0.012
11100-14-4	Aroclor-1268	TRG	0.25	NA	1.1	NA	1.6	0.00538	U	0.00538
1336-36-3	Total PCBs	TRG	0.25	NA	1.1	NA	1.6	0.00416	U	0.00416
Pesticides (mg/kg)								Result	Qualifier	MDL
72-54-8	4,4'-DDD	TRG	2.3	NA	11	NA	0.47	0.000803	U	0.000803
72-55-9	4,4'-DDE	TRG	2	NA	11	NA	0.47	0.000959	U	0.000959
50-29-3	4,4'-DDT	TRG	1.9	NA	9.5	NA	0.67	0.0112		0.00124
309-00-2	Aldrin	TRG	0.041	NA	0.21	NA	0.13	0.000831	U	0.000831
319-84-6	alpha-BHC	TRG	0.086	NA	0.41	NA	0.0023	0.000522	U	0.000522
319-85-7	beta-BHC	TRG	0.3	NA	1.4	NA	0.0046	0.000838	U	0.000838
57-74-9	Chlordane	TRG	0.27	NA	1.4	NA	1.4	0.00078	U	0.00078
319-86-8	delta-BHC	TRG						0.000815	U	0.000815
60-57-1	Dieldrin	TRG	0.034	NA	0.16	NA	0.024	0.000917	U	0.000917
959-98-8	Endosulfan I	TRG	470	NA	7800	NA	NA	0.000828	U	0.000828
33213-65-9	Endosulfan II	TRG	470	NA	7800	NA	NA	0.000797	U	0.000797
1031-07-8	Endosulfan sulfate	TRG						0.00066	U	0.00066
72-20-8	Endrin	TRG	19	NA	270	NA	1.6	0.000606	U	0.000606
7421-93-4	Endrin aldehyde	TRG						0.000699	U	0.000699
53494-70-5	Endrin ketone	TRG						0.000618	U	0.000618
58-89-9	gamma-BHC (Lindane)	TRG	0.57	NA	2.8	NA	0.0035	0.000556	U	0.000556
76-44-8	Heptachlor	TRG	0.15	NA	0.81	NA	0.083	0.000469	U	0.000469
1024-57-3	Heptachlor Epoxide	TRG	0.076	NA	0.4	NA	0.081	0.000885	U	0.000885
72-43-5	Methoxychlor	TRG	320	NA	4600	NA	NA	0.000514	U	0.000514
8001-35-2	Toxaphene	TRG	0.49	NA	2.3	NA	6.2	0.0845	U	0.0845

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	Detected in Sample
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Specific Footnotes:

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Lab: Aqua Pro-Tech Laboratories								
Client: _One Time Client - Conquest Contracting			NJDEP 2021 Soil Remediation Standards					
		Lab ID:	NJDEP	NJDEP	NJDEP	NJDEP	NJDEP	
		Client ID:	Residential	Residential	Non-Residential	Non-Residential	Migration to	
		Date Sampled:	Ingestion-Dermal	Inhalation	Ingestion-Dermal	Inhalation	Ground Water	
		Matrix:	SRS	SRS	SRS	SRS	SRS	
			May 2021	May 2021	May 2021	May 2021	May 2021	
CAS#	Compound	Type						
Extractable Petroleum Hydrocarbons Category 2 (mg/kg)								RL
NJDEP-EPH2	Total EPH	TRG						27
PCBs (mg/kg)								RL
12674-11-2	Aroclor-1016	TRG	0.25	NA	1.1	NA	1.6	0.0445
11104-28-2	Aroclor-1221	TRG	0.25	NA	1.1	NA	1.6	0.0445
11141-16-5	Aroclor-1232	TRG	0.25	NA	1.1	NA	1.6	0.0445
53469-21-9	Aroclor-1242	TRG	0.25	NA	1.1	NA	1.6	0.0445
12672-29-6	Aroclor-1248	TRG	0.25	NA	1.1	NA	1.6	0.0445
11097-69-1	Aroclor-1254	TRG	0.25	NA	1.1	NA	1.6	0.0445
11096-82-5	Aroclor-1260	TRG	0.25	NA	1.1	NA	1.6	0.0445
37324-23-5	Aroclor-1262	TRG	0.25	NA	1.1	NA	1.6	0.0445
11100-14-4	Aroclor-1268	TRG	0.25	NA	1.1	NA	1.6	0.0445
1336-36-3	Total PCBs	TRG	0.25	NA	1.1	NA	1.6	0.0445
Pesticides (mg/kg)								RL
72-54-8	4,4'-DDD	TRG	2.3	NA	11	NA	0.47	0.00175
72-55-9	4,4'-DDE	TRG	2	NA	11	NA	0.47	0.00175
50-29-3	4,4'-DDT	TRG	1.9	NA	9.5	NA	0.67	0.00175
309-00-2	Aldrin	TRG	0.041	NA	0.21	NA	0.13	0.00175
319-84-6	alpha-BHC	TRG	0.086	NA	0.41	NA	0.0023	0.00175
319-85-7	beta-BHC	TRG	0.3	NA	1.4	NA	0.0046	0.00175
57-74-9	Chlordane	TRG	0.27	NA	1.4	NA	1.4	0.00175
319-86-8	delta-BHC	TRG						0.00175
60-57-1	Dieldrin	TRG	0.034	NA	0.16	NA	0.024	0.00175
959-98-8	Endosulfan I	TRG	470	NA	7800	NA	NA	0.00175
33213-65-9	Endosulfan II	TRG	470	NA	7800	NA	NA	0.00175
1031-07-8	Endosulfan sulfate	TRG						0.00175
72-20-8	Endrin	TRG	19	NA	270	NA	1.6	0.00175
7421-93-4	Endrin aldehyde	TRG						0.00175
53494-70-5	Endrin ketone	TRG						0.00175
58-89-9	gamma-BHC (Lindane)	TRG	0.57	NA	2.8	NA	0.0035	0.00175
76-44-8	Heptachlor	TRG	0.15	NA	0.81	NA	0.083	0.00175
1024-57-3	Heptachlor Epoxide	TRG	0.076	NA	0.4	NA	0.081	0.00175
72-43-5	Methoxychlor	TRG	320	NA	4600	NA	NA	0.00175
8001-35-2	Toxaphene	TRG	0.49	NA	2.3	NA	6.2	0.089

Main Footnotes:

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APL assumes no liability for the interpretation and/or accuracy of the standards.

Qualifiers:

U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
D - Indicates result is based on a dilution
E - Concentration exceeds highest calibration standard
B - Indicates compound found in associated blank
H - Indicates a Hold Time violation
P - Indicates a Greater than 25% diff. between 2 GC columns.

Key:

	Reporting Limit exceeds Reg Standard
	Value Exceeded One or More of the Criteria
	Detected in Sample
	E Qualified, may require Dilution

Specific Footnotes:

Work Order 1080405											
Lab: Aqua Pro-Tech Laboratories											
Client: _One Time Client - Conquest Contracting			NJDEP 2021 Soil Remediation Standards								
		Lab ID:	NJDEP	NJDEP	NJDEP	NJDEP	NJDEP	1080405-01			
		Client ID:	Residential	Residential	Non-Residential	Non-Residential	Migration to	DeBoer & 208 Ramp			
		Date Sampled:	Ingestion-Dermal	Inhalation	Ingestion-Dermal	Inhalation	Ground Water	08/09/2021 11:00			
		Matrix:	SRS	SRS	SRS	SRS	SRS	Soil			
			May 2021	May 2021	May 2021	May 2021	May 2021				
CAS#	Compound	Type						Result	Qualifier	MDL	RL
Semivolatile Organics - GC/MS (mg/kg)											
123-91-1	1,4-Dioxane	TRG	7	45	36	210	0.067	0.0101	U	0.0101	0.0898
58-90-2	2,3,4,6-Tetrachlorophenol	TRG	1900	NA	27000	NA	26	0.0553	U	0.0553	0.359
95-95-4	2,4,5-Trichlorophenol	TRG	6300	NA	91000	NA	68	0.0488	U	0.0488	0.359
88-06-2	2,4,6-Trichlorophenol	TRG	49	NA	230	NA	0.86	0.0225	U	0.0225	0.359
120-83-2	2,4-Dichlorophenol	TRG	190	NA	2700	NA	0.19	0.0362	U	0.0362	0.359
105-67-9	2,4-Dimethylphenol	TRG	1300	NA	18000	NA	2.3	0.0353	U	0.0353	0.359
51-28-5	2,4-Dinitrophenol	TRG	130	NA	1800	NA	0.33	0.0518	U	0.0518	1.8
121-14-2	2,4-Dinitrotoluene	TRG	0.8	NA	3.8	NA	0.27	0.0383	U	0.0383	0.359
606-20-2	2,6-Dinitrotoluene	TRG	0.8	NA	3.8	NA	0.27	0.0858	U	0.0858	0.359
91-58-7	2-Chloronaphthalene	TRG	4800	NA	67000	NA	NA	0.0413	U	0.0413	0.359
95-57-8	2-Chlorophenol	TRG	390	NA	6500	NA	0.76	0.0475	U	0.0475	0.359
91-57-6	2-Methylnaphthalene	TRG	240	NA	3300	NA	3.1	**0.197**	JD	0.0861	0.54
95-48-7	2-Methylphenol	TRG	320	NA	4600	NA	0.77	0.071	U	0.071	0.359
88-74-4	2-Nitroaniline	TRG						0.0289	U	0.0289	0.359
88-75-5	2-Nitrophenol	TRG						0.0399	U	0.0399	0.359
91-94-1	3,3'-Dichlorobenzidine	TRG	1.2	NA	5.7	NA	3.9	0.0378	U	0.0378	0.359
65794-96-9	3+4-Methylphenol	TRG						0.0658	U	0.0658	0.359
99-09-2	3-Nitroaniline	TRG						0.0666	U	0.0666	0.359
534-52-1	4,6-Dinitro-2-methylphenol	TRG						0.0677	U	0.0677	0.898
101-55-3	4-Bromophenyl-phenyl ether	TRG						0.0513	U	0.0513	0.359
59-50-7	4-Chloro-3-methylphenol	TRG						0.0567	U	0.0567	0.359
106-47-8	4-Chloroaniline	TRG	2.7	NA	13	NA	0.23	0.0126	U	0.0126	0.359
7005-72-3	4-Chlorophenyl phenyl ether	TRG						0.0194	U	0.0194	0.359
100-01-6	4-Nitroaniline	TRG	27	NA	130	NA	NA	0.18	U	0.18	0.359
100-02-7	4-Nitrophenol	TRG						0.023	U	0.023	0.359
83-32-9	Acenaphthene	TRG	3600	NA	50000	NA	NA	**0.258**	JD	0.0205	0.359
208-96-8	Acenaphthylene	TRG						**1.44**	D	0.0125	0.359
98-86-2	Acetophenone	TRG	7800	NA	130000	NA	3.6	0.0356	U	0.0356	0.359
120-12-7	Anthracene	TRG	18000	NA	250000	NA	NA	**1.05**	D	0.0521	0.359
1912-24-9	Atrazine	TRG	220	NA	3200	NA	0.33	0.0337	U	0.0337	0.359
100-52-7	Benzaldehyde	TRG	170	NA	910	NA	NA	0.11	U	0.11	0.359
56-55-3	Benzo(a)anthracene	TRG	5.1	78000	23	370000	0.71	**2.60**	D	0.0362	0.359
50-32-8	Benzo(a)pyrene	TRG	0.51	3500	2.3	16000	NA	**0.48**	D	0.0626	0.359
205-99-2	Benzo(b)fluoranthene	TRG	5.1	78000	23	370000	NA	**3.49**	D	0.0504	0.359
191-24-2	Benzo(g,h,i)perylene	TRG						**1.98**	D	0.0291	0.359
207-08-9	Benzo(k)fluoranthene	TRG	51	780000	230	NA	NA	**1.53**	D	0.0413	0.359
92-52-4	Biphenyl	TRG	87	NA	450	NA	NA	0.0316	U	0.0316	0.359
111-91-1	bis(2-chloroethoxy)methane	TRG	190	NA	2700	NA	NA	0.0496	U	0.0496	0.359
111-44-4	bis(2-chloroethyl)ether	TRG	0.63	NA	3.3	NA	0.33	0.0394	U	0.0394	0.359
108-60-1	bis(2-chloroisopropyl)ether	TRG	3100	NA	52000	NA	1.9	0.129	U	0.129	0.359
117-81-7	bis(2-ethylhexyl)phthalate	TRG	39	NA	180	NA	14	0.0718	U	0.0718	0.359
85-68-7	Butylbenzylphthalate	TRG	290	NA	1300	NA	29	0.0326	U	0.0326	0.359
105-60-2	Caprolactam	TRG	32000	290	460000	1300	16	0.0464	U	0.0464	0.359
86-74-8	Carbazole	TRG						**0.207**	JD	0.0691	0.898
218-01-9	Chrysene	TRG	510	NA	2300	NA	NA	**3.62**	D	0.0246	0.359
53-70-3	Dibenzo(a,h)anthracene	TRG	0.51	7800	2.3	37000	NA	**0.49**	D	0.0356	0.359
132-64-9	Dibenzofuran	TRG						**0.0841**	JD	0.0214	0.359
84-66-2	Diethylphthalate	TRG	51000	NA	730000	NA	44	0.0696	U	0.0696	0.359
131-11-3	Dimethylphthalate	TRG						**0.279**	JD	0.0223	0.359
84-74-2	Di-n-butylphthalate	TRG	6300	NA	91000	NA	NA	0.147	U	0.147	0.359
117-84-0	Di-n-octylphthalate	TRG	630	NA	9100	NA	NA	0.0737	U	0.0737	0.359
206-44-0	Fluoranthene	TRG	2400	NA	33000	NA	NA	**5.40**	D	0.0337	0.359
86-73-7	Fluorene	TRG	2400	NA	33000	NA	NA	**0.677**	D	0.0299	0.359
118-74-1	Hexachlorobenzene	TRG	0.43	NA	2.3	NA	0.17	0.0469	U	0.0469	0.359
87-68-3	Hexachlorobutadiene	TRG	8.9	NA	47	NA	0.17	0.172	U	**0.172**	**0.359**
77-47-4	Hexachlorocyclopentadiene	TRG	470	2.7	7800	NA	2.5	0.15	U	0.15	0.898
67-72-1	Hexachloroethane	TRG	17	NA	91	NA	0.17	0.0394	U	0.0394	0.359
193-39-5	Indeno(1,2,3-cd)pyrene	TRG	5.1	78000	23	370000	NA	**1.65**	D	0.0386	0.359
78-59-1	Isophorone	TRG	570	NA	2700	NA	0.23	0.0235	U	0.0235	0.359
91-20-3	Naphthalene	TRG	2500	5.7	34000	27	19	**0.114**	JD	0.0266	0.359
98-95-3	Nitrobenzene	TRG	160	7.5	2600	36	0.17	0.061	U	0.061	0.359
621-64-7	n-Nitroso-di-n-propylamine	TRG	0.17	NA	0.36	NA	0.17	0.0192	U	0.0192	0.359
86-30-6	n-Nitrosodiphenylamine	TRG	110	NA	520	NA	1.1	0.0766	U	0.0766	0.359
87-86-5	Pentachlorophenol	TRG	1	NA	4.4	NA	0.33	0.0494	U	0.0494	0.898
85-01-8	Phenanthrene	TRG						**4.97**	D	0.0472	0.359
108-95-2	Phenol	TRG	19000	39000	270000	NA	21	0.0291	U	0.0291	0.359
129-00-0	Pyrene	TRG	1800	NA	25000	NA	NA	**7.15**	D	0.0264	0.359
000084-65-1	9,10-Anthracenedione	TIC						**0.888**	JD		
000084-54-8	9,10-Anthracenedione, -methyl-isomer	TIC						**0.908**	JD		
010387-13-0	9,10-di(Chloromethyl)anthracene	TIC						**0.896**	JD		
000781-92-0	Anthracene, -dimethyl-isomer	TIC						**2.67**	JD		
000613-12-7	Anthracene, -methyl-isomer (01)	TIC						**2.30**	JD		
000613-12-7	Anthracene, -methyl-isomer (02)	TIC						**2.56**	JD		
000192-97-2	Benzo[e]pyrene	TIC						**2.04**	JD		
003351-28-8	Chrysene, -methyl-isomer	TIC						**0.925**	JD		
000112-95-8	Eicosane	TIC						**1.95**	JD		

Work Order 1080405											
Lab: Aqua Pro-Tech Laboratories											
Client: _One Time Client - Conquest Contracting			NJDEP 2021 Soil Remediation Standards								
		Lab ID:	NJDEP	NJDEP	NJDEP	NJDEP	NJDEP	1080405-01			
		Client ID:	Residential	Residential	Non-Residential	Non-Residential	Migration to	DeBoer & 208 Ramp			
		Date Sampled:	Ingestion-Dermal	Inhalation	Ingestion-Dermal	Inhalation	Ground Water	08/09/2021 11:00			
		Matrix:	SRS	SRS	SRS	SRS	SRS	Soil			
			May 2021	May 2021	May 2021	May 2021	May 2021				
CAS#	Compound	Type									
000883-20-5	Phenanthrene, -methyl-isomer	TIC						**3.16**	JD		
003353-12-6	Pyrene, -methyl-isomer (01)	TIC						**1.45**	JD		
003442-78-2	Pyrene, -methyl-isomer (02)	TIC						**1.03**	JD		
003442-78-2	Pyrene, -methyl-isomer (03)	TIC						**0.851**	JD		
002381-21-7	Pyrene, -methyl-isomer (04)	TIC						**1.04**	JD		
	unknown	TIC						**0.898**	JD		
NA	Tentatively Identified Compounds	TIC Total						**23.6**	J		

Main Footnotes:

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B - Indicates compound found in associated blank
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Key:

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	Value Exceeded One or More of the Criteria
	Detected in Sample
	E Qualified, may require Dilution

Specific Footnotes:

APPENDIX F

WATER MAIN REPLACEMENT – JEFFERSON, WILLIAM, AND SLEM STREETS ANALYTICAL DATA

APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

ACCREDITED IN ACCORDANCE WITH nelac

ANALYTICAL RESULTS

STANDARD DELIVERABLES FORMAT

APL WORK ORDER NUMBER: 0090585

Project: Water Main Replacement Jefferson & Salem

Brian Wood
Laboratory Director

All Results meet the requirements of the National Environmental Laboratory Accreditation Conference and/or State specific certifications as applicable.

Report Date: Sep 22, 2020

1275 Bloomfield Ave., Bldg. 6, Fairfield, New Jersey 07004
(t) 973.227.0422 (f) 973.227.2813 (w) www.aquaprotechlabs.com

NELAC National Environmental Laboratory Accreditation Conference
NJDEP #07010 / NYDOH #11634

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APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

Analytical Results Summary

Conquest Contracting Engineers

0090585-01 (Soil)

Williams St

Collected	Received	Contact
09/14/2020 08:50	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Chromium, Hexavalent	SW 846 7196A	09/16/20 07:40	09/16/20 09:30	ND	U		0.445	mg/kg dry
Cyanide	SW 846 9014	09/15/20 13:13	09/16/20 15:25	ND	U		0.275	mg/kg dry
Percent Solids	**Gravimetric**	09/14/20 17:55	09/15/20 10:40	**91.1**				%
pH	**SW 846 9045D**	09/21/20 15:50	09/21/20 15:50	**7.13**			**0.0100**	pH Units
Redox Potential	**SM 2580 (mod)**	09/21/20 13:35	09/21/20 13:55	**184**			**-1000**	mV
Total Metals								
Aluminum	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**7160**			**2.73**	mg/kg dry
Antimony	SW 846 6010D	09/16/20 06:38	09/18/20 11:46	ND	U		1.37	mg/kg dry
Arsenic	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**2.46**			**1.37**	mg/kg dry
Barium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**33.1**			**0.546**	mg/kg dry
Beryllium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**0.309**			**0.0273**	mg/kg dry
Cadmium	SW 846 6010D	09/16/20 06:38	09/18/20 11:46	ND	U		0.273	mg/kg dry
Calcium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**899**			**27.3**	mg/kg dry
Chromium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**8.91**			**0.273**	mg/kg dry
Cobalt	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**4.18**			**0.219**	mg/kg dry
Copper	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**9.70**			**0.273**	mg/kg dry
Iron	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**11100**	**B**		**5.46**	mg/kg dry
Lead	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**4.15**			**1.37**	mg/kg dry
Magnesium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**1760**			**54.6**	mg/kg dry
Manganese	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**391**			**0.273**	mg/kg dry
Mercury	SW 846 7471B	09/16/20 07:00	09/16/20 14:34	ND	U		0.0527	mg/kg dry
Nickel	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**8.71**			**0.137**	mg/kg dry
Potassium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**713**			**109**	mg/kg dry
Selenium	SW 846 6010D	09/16/20 06:38	09/18/20 11:46	ND	U		1.37	mg/kg dry
Silver	SW 846 6010D	09/16/20 06:38	09/18/20 11:46	ND	U		0.546	mg/kg dry
Sodium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**135**			**54.6**	mg/kg dry
Thallium	SW 846 6010D	09/16/20 06:38	09/18/20 11:46	ND	U		1.37	mg/kg dry
Vanadium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**12.0**			**0.546**	mg/kg dry
Zinc	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**24.0**			**0.820**	mg/kg dry
EPH Category 2 Extractable Petroleum Hydrocarbons Category 2								
Total EPH	**NJDEP-EPH-CAT2**	09/16/20 15:55	09/21/20 11:45	**36.4**		**11.0**	**22.0**	mg/kg dry
BNA+25 Semivolatile Organics - GC/MS								

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND, U - Indicates compound analyzed for but not detected
J - Indicates estimated value

B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

Analytical Results Summary

Conquest Contracting Engineers

0090585-01 (Soil)

Williams St

Collected	Received	Contact
09/14/2020 08:50	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
BNA+25 Semivolatile Organics - GC/MS								
2,3,4,6-Tetrachlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0225	0.146	mg/kg dry
2,4,5-Trichlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0199	0.146	mg/kg dry
2,4,6-Trichlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.00915	0.146	mg/kg dry
2,4-Dichlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0147	0.146	mg/kg dry
2,4-Dimethylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0144	0.146	mg/kg dry
2,4-Dinitrophenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0211	0.732	mg/kg dry
2,4-Dinitrotoluene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0156	0.146	mg/kg dry
2,6-Dinitrotoluene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0349	0.146	mg/kg dry
2-Chloronaphthalene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0168	0.146	mg/kg dry
2-Chlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0193	0.146	mg/kg dry
2-Methylnaphthalene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0350	0.220	mg/kg dry
2-Methylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0289	0.146	mg/kg dry
2-Nitroaniline	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0118	0.146	mg/kg dry
2-Nitrophenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0163	0.146	mg/kg dry
3,3'-Dichlorobenzidine	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0154	0.146	mg/kg dry
3+4-Methylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0268	0.146	mg/kg dry
3-Nitroaniline	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0271	0.146	mg/kg dry
4,6-Dinitro-2-methylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0276	0.366	mg/kg dry
4-Bromophenyl-phenyl ether	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0209	0.146	mg/kg dry
4-Chloro-3-methylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0231	0.146	mg/kg dry
4-Chloroaniline	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.00512	0.146	mg/kg dry
4-Chlorophenyl phenyl ether	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.00790	0.146	mg/kg dry
4-Nitroaniline	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0731	0.146	mg/kg dry
4-Nitrophenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.00936	0.146	mg/kg dry
Acenaphthene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.00833	0.146	mg/kg dry
Acenaphthylene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.00508	0.146	mg/kg dry
Acetophenone	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0145	0.146	mg/kg dry
Anthracene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0212	0.146	mg/kg dry
Atrazine	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0137	0.146	mg/kg dry
Benzaldehyde	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0449	0.146	mg/kg dry
Benzo(a)anthracene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0147	0.146	mg/kg dry
Benzo(a)pyrene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0255	0.146	mg/kg dry
Benzo(b)fluoranthene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0205	0.146	mg/kg dry
Benzo(g,h,i)perylene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0119	0.146	mg/kg dry
Benzo(k)fluoranthene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0168	0.146	mg/kg dry
Biphenyl	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0128	0.146	mg/kg dry

FootNotes

RL - Reporting limit
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E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

Analytical Results Summary

Conquest Contracting Engineers

0090585-01 (Soil)

Williams St

Collected	Received	Contact
09/14/2020 08:50	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
BNA+25 Semivolatile Organics - GC/MS								
bis(2-chloroethoxy)methane	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0202	0.146	mg/kg dry
bis(2-chloroethyl)ether	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0160	0.146	mg/kg dry
bis(2-chloroisopropyl)ether	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0526	0.146	mg/kg dry
bis(2-ethylhexyl)phthalate	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0292	0.146	mg/kg dry
Butylbenzylphthalate	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0133	0.146	mg/kg dry
Caprolactam	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0189	0.146	mg/kg dry
Carbazole	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0281	0.366	mg/kg dry
Chrysene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0100	0.146	mg/kg dry
Dibenzo(a,h)anthracene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0145	0.146	mg/kg dry
Dibenzofuran	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.00871	0.146	mg/kg dry
Diethylphthalate	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0283	0.146	mg/kg dry
Dimethylphthalate	**SW 846 8270D**	09/17/20 08:04	09/18/20 21:48	**0.0869**	**J**	**0.00907**	**0.146**	mg/kg dry
Di-n-butylphthalate	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0597	0.146	mg/kg dry
Di-n-octylphthalate	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0300	0.146	mg/kg dry
Fluoranthene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0137	0.146	mg/kg dry
Fluorene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0122	0.146	mg/kg dry
Hexachlorobenzene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0191	0.146	mg/kg dry
Hexachlorobutadiene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0702	0.146	mg/kg dry
Hexachlorocyclopentadiene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0609	0.366	mg/kg dry
Hexachloroethane	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0160	0.146	mg/kg dry
Indeno(1,2,3-cd)pyrene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0157	0.146	mg/kg dry
Isophorone	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.00958	0.146	mg/kg dry
Naphthalene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0108	0.146	mg/kg dry
Nitrobenzene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0248	0.146	mg/kg dry
n-Nitroso-di-n-propylamine	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.00783	0.146	mg/kg dry
n-Nitrosodiphenylamine	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0312	0.146	mg/kg dry
Pentachlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0201	0.366	mg/kg dry
Phenanthrene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0192	0.146	mg/kg dry
Phenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0119	0.146	mg/kg dry
Pyrene	**SW 846 8270D**	09/17/20 08:04	09/18/20 21:48	**0.0408**	**J**	**0.0108**	**0.146**	mg/kg dry
Pesticides								
4,4'-DDD	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000653	0.00143	mg/kg dry
4,4'-DDE	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000781	0.00143	mg/kg dry
4,4'-DDT	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.00101	0.00143	mg/kg dry
Aldrin	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000676	0.00143	mg/kg dry

FootNotes

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APL
AQUA PRO-TECH LABORATORIES
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Analytical Results Summary

Conquest Contracting Engineers

0090585-01 (Soil)

Williams St

Collected	Received	Contact
09/14/2020 08:50	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
Pesticides								
alpha-BHC	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000425	0.00143	mg/kg dry
beta-BHC	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000682	0.00143	mg/kg dry
Chlordane	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000635	0.00143	mg/kg dry
delta-BHC	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000663	0.00143	mg/kg dry
Dieldrin	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000747	0.00143	mg/kg dry
Endosulfan I	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000674	0.00143	mg/kg dry
Endosulfan II	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000649	0.00143	mg/kg dry
Endosulfan sulfate	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000537	0.00143	mg/kg dry
Endrin	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000493	0.00143	mg/kg dry
Endrin aldehyde	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000569	0.00143	mg/kg dry
Endrin ketone	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000503	0.00143	mg/kg dry
gamma-BHC (Lindane)	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000452	0.00143	mg/kg dry
Heptachlor	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000382	0.00143	mg/kg dry
Heptachlor Epoxide	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000720	0.00143	mg/kg dry
Methoxychlor	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000418	0.00143	mg/kg dry
Toxaphene	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.0688	0.0725	mg/kg dry
PCBs								
Aroclor-1016	SW 846 8082A	09/17/20 08:07	09/17/20 16:44	ND	U	0.00486	0.0362	mg/kg dry
Aroclor-1221	SW 846 8082A	09/17/20 08:07	09/17/20 16:44	ND	U	0.00956	0.0362	mg/kg dry
Aroclor-1232	SW 846 8082A	09/17/20 08:07	09/17/20 16:44	ND	U	0.0122	0.0362	mg/kg dry
Aroclor-1242	SW 846 8082A	09/17/20 08:07	09/17/20 16:44	ND	U	0.00712	0.0362	mg/kg dry
Aroclor-1248	SW 846 8082A	09/17/20 08:07	09/17/20 16:44	ND	U	0.00745	0.0362	mg/kg dry
Aroclor-1254	SW 846 8082A	09/17/20 08:07	09/17/20 16:44	ND	U	0.00585	0.0362	mg/kg dry
Aroclor-1260	SW 846 8082A	09/17/20 08:07	09/17/20 16:44	ND	U	0.00454	0.0362	mg/kg dry
Aroclor-1262	SW 846 8082A	09/17/20 08:07	09/17/20 16:44	ND	U	0.00975	0.0362	mg/kg dry
Aroclor-1268	SW 846 8082A	09/17/20 08:07	09/17/20 16:44	ND	U	0.00438	0.0362	mg/kg dry
Total PCBs	SW 846 8082A	09/17/20 08:07	09/17/20 16:44	ND	U	0.00338	0.0362	mg/kg dry
VO+15 Volatile Organics - GC/MS								
1,1,1-Trichloroethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000321	0.00220	mg/kg dry
1,1,2,2-Tetrachloroethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000303	0.00220	mg/kg dry
1,1,2-Trichloro-1,2,2 Trifluoroethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000940	0.00220	mg/kg dry
1,1,2-Trichloroethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000370	0.00220	mg/kg dry
1,1-Dichloroethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000321	0.00220	mg/kg dry

FootNotes

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APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

Analytical Results Summary

Conquest Contracting Engineers

0090585-01 (Soil)

Williams St

Collected	Received	Contact
09/14/2020 08:50	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
VO+15 Volatile Organics - GC/MS								
1,1-Dichloroethene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000406	0.00220	mg/kg dry
1,2,3-Trichlorobenzene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000474	0.00220	mg/kg dry
1,2,4-Trichlorobenzene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000585	0.00220	mg/kg dry
1,2,4-Trimethylbenzene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000303	0.00220	mg/kg dry
1,2-Dibromo-3-chloropropane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000536	0.00549	mg/kg dry
1,2-Dibromoethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000277	0.00220	mg/kg dry
1,2-Dichlorobenzene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000388	0.00220	mg/kg dry
1,2-Dichloroethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000310	0.00220	mg/kg dry
1,2-Dichloropropane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000360	0.00220	mg/kg dry
1,3-Dichlorobenzene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000161	0.00220	mg/kg dry
1,4-Dichlorobenzene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000316	0.00220	mg/kg dry
2-Butanone	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000358	0.00549	mg/kg dry
2-Hexanone	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000205	0.00220	mg/kg dry
4-Methyl-2-pentanone	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000275	0.00220	mg/kg dry
Acetone	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000665	0.00549	mg/kg dry
Benzene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000200	0.00220	mg/kg dry
Bromochloromethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000405	0.00220	mg/kg dry
Bromodichloromethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000276	0.00220	mg/kg dry
Bromoform	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000385	0.00220	mg/kg dry
Bromomethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000634	0.00220	mg/kg dry
Carbon disulfide	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000315	0.00220	mg/kg dry
Carbon Tetrachloride	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000331	0.00220	mg/kg dry
Chlorobenzene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000318	0.00220	mg/kg dry
Chlorodibromomethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000270	0.00220	mg/kg dry
Chloroethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000374	0.00220	mg/kg dry
Chloroform	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000369	0.00220	mg/kg dry
Chloromethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000846	0.00220	mg/kg dry
cis-1,2-Dichloroethene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000106	0.00220	mg/kg dry
cis-1,3-Dichloropropene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000278	0.00220	mg/kg dry
Cyclohexane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000486	0.00220	mg/kg dry
Dichlorodifluoromethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000741	0.00220	mg/kg dry
EthylBenzene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000298	0.00220	mg/kg dry
Isopropylbenzene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000345	0.00220	mg/kg dry
m+p-Xylenes	**SW 846 8260C**	09/17/20 17:26	09/17/20 17:26	**0.00127**	**J**	**0.000555**	**0.00439**	mg/kg dry
Methyl Acetate	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000291	0.00220	mg/kg dry
Methyl tert-Butyl Ether	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000371	0.00220	mg/kg dry

FootNotes

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Analytical Results Summary

Conquest Contracting Engineers

0090585-01 (Soil)

Williams St

Collected	Received	Contact
09/14/2020 08:50	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
VO+15 Volatile Organics - GC/MS								
Methylcyclohexane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000354	0.00220	mg/kg dry
Methylene Chloride	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000660	0.00220	mg/kg dry
o-Xylene	**SW 846 8260C**	09/17/20 17:26	09/17/20 17:26	**0.000734**	**J**	**0.000282**	**0.00220**	mg/kg dry
Styrene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000314	0.00220	mg/kg dry
tert-Butyl alcohol	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.00461	0.0220	mg/kg dry
Tetrachloroethene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000217	0.00220	mg/kg dry
Toluene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000177	0.00220	mg/kg dry
Total Xylenes	**SW 846 8260C**	09/17/20 17:26	09/17/20 17:26	**0.00201**	**J**	**0.000282**	**0.00220**	mg/kg dry
trans-1,2-Dichloroethene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000298	0.00220	mg/kg dry
trans-1,3-Dichloropropene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000419	0.00220	mg/kg dry
Trichloroethene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000323	0.00220	mg/kg dry
Trichlorofluoromethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000253	0.00220	mg/kg dry
Vinyl chloride	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000417	0.00220	mg/kg dry

FootNotes

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APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

Analytical Results Summary

Conquest Contracting Engineers

0090585-02 (Soil)

Jefferson St

Collected	Received	Contact
09/14/2020 11:00	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Chromium, Hexavalent	SW 846 7196A	09/16/20 07:40	09/16/20 09:30	ND	U		0.431	mg/kg dry
Cyanide	SW 846 9014	09/15/20 13:13	09/16/20 15:25	ND	U		0.267	mg/kg dry
Percent Solids	**Gravimetric**	09/14/20 17:55	09/15/20 10:40	**91.4**				%
pH	**SW 846 9045D**	09/21/20 15:50	09/21/20 15:50	**6.72**			**0.0100**	pH Units
Redox Potential	**SM 2580 (mod)**	09/21/20 13:35	09/21/20 13:55	**158**			**-1000**	mV
Total Metals								
Aluminum	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**7350**			**2.76**	mg/kg dry
Antimony	SW 846 6010D	09/16/20 06:38	09/18/20 11:49	ND	U		1.38	mg/kg dry
Arsenic	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**2.13**			**1.38**	mg/kg dry
Barium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**34.8**			**0.553**	mg/kg dry
Beryllium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**0.338**			**0.0276**	mg/kg dry
Cadmium	SW 846 6010D	09/16/20 06:38	09/18/20 11:49	ND	U		0.276	mg/kg dry
Calcium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**887**			**27.6**	mg/kg dry
Chromium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**15.1**			**0.276**	mg/kg dry
Cobalt	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**3.54**			**0.221**	mg/kg dry
Copper	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**7.13**			**0.276**	mg/kg dry
Iron	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**12300**	**B**		**5.53**	mg/kg dry
Lead	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**4.26**			**1.38**	mg/kg dry
Magnesium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**2270**			**55.3**	mg/kg dry
Manganese	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**147**			**0.276**	mg/kg dry
Mercury	SW 846 7471B	09/17/20 07:00	09/17/20 13:00	ND	U		0.0479	mg/kg dry
Nickel	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**11.9**			**0.138**	mg/kg dry
Potassium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**633**			**111**	mg/kg dry
Selenium	SW 846 6010D	09/16/20 06:38	09/18/20 11:49	ND	U		1.38	mg/kg dry
Silver	SW 846 6010D	09/16/20 06:38	09/18/20 11:49	ND	U		0.553	mg/kg dry
Sodium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**175**			**55.3**	mg/kg dry
Thallium	SW 846 6010D	09/16/20 06:38	09/18/20 11:49	ND	U		1.38	mg/kg dry
Vanadium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**13.0**			**0.553**	mg/kg dry
Zinc	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**22.2**			**0.829**	mg/kg dry
EPH Category 2 Extractable Petroleum Hydrocarbons Category 2								
Total EPH	**NJDEP-EPH-CAT2**	09/16/20 15:55	09/21/20 12:03	**22.3**		**10.9**	**21.9**	mg/kg dry
BNA+25 Semivolatile Organics - GC/MS								

FootNotes

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APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

Analytical Results Summary

Conquest Contracting Engineers

0090585-02 (Soil)

Jefferson St

Collected	Received	Contact
09/14/2020 11:00	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
BNA+25 Semivolatile Organics - GC/MS								
2,3,4,6-Tetrachlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0224	0.146	mg/kg dry
2,4,5-Trichlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0198	0.146	mg/kg dry
2,4,6-Trichlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.00911	0.146	mg/kg dry
2,4-Dichlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0147	0.146	mg/kg dry
2,4-Dimethylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0143	0.146	mg/kg dry
2,4-Dinitrophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0210	0.730	mg/kg dry
2,4-Dinitrotoluene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0155	0.146	mg/kg dry
2,6-Dinitrotoluene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0348	0.146	mg/kg dry
2-Chloronaphthalene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0167	0.146	mg/kg dry
2-Chlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0193	0.146	mg/kg dry
2-Methylnaphthalene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0349	0.219	mg/kg dry
2-Methylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0288	0.146	mg/kg dry
2-Nitroaniline	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0117	0.146	mg/kg dry
2-Nitrophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0162	0.146	mg/kg dry
3,3'-Dichlorobenzidine	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0153	0.146	mg/kg dry
3+4-Methylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0267	0.146	mg/kg dry
3-Nitroaniline	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0270	0.146	mg/kg dry
4,6-Dinitro-2-methylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0275	0.364	mg/kg dry
4-Bromophenyl-phenyl ether	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0208	0.146	mg/kg dry
4-Chloro-3-methylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0230	0.146	mg/kg dry
4-Chloroaniline	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.00510	0.146	mg/kg dry
4-Chlorophenyl phenyl ether	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.00787	0.146	mg/kg dry
4-Nitroaniline	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0729	0.146	mg/kg dry
4-Nitrophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.00932	0.146	mg/kg dry
Acenaphthene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.00830	0.146	mg/kg dry
Acenaphthylene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.00507	0.146	mg/kg dry
Acetophenone	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0144	0.146	mg/kg dry
Anthracene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0211	0.146	mg/kg dry
Atrazine	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0137	0.146	mg/kg dry
Benzaldehyde	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0448	0.146	mg/kg dry
Benzo(a)anthracene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0147	0.146	mg/kg dry
Benzo(a)pyrene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0254	0.146	mg/kg dry
Benzo(b)fluoranthene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0205	0.146	mg/kg dry
Benzo(g,h,i)perylene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0118	0.146	mg/kg dry
Benzo(k)fluoranthene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0167	0.146	mg/kg dry
Biphenyl	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0128	0.146	mg/kg dry

FootNotes

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Analytical Results Summary

Conquest Contracting Engineers

0090585-02 (Soil)

Jefferson St

Collected	Received	Contact
09/14/2020 11:00	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
BNA+25 Semivolatile Organics - GC/MS								
bis(2-chloroethoxy)methane	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0201	0.146	mg/kg dry
bis(2-chloroethyl)ether	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0160	0.146	mg/kg dry
bis(2-chloroisopropyl)ether	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0524	0.146	mg/kg dry
bis(2-ethylhexyl)phthalate	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0291	0.146	mg/kg dry
Butylbenzylphthalate	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0132	0.146	mg/kg dry
Caprolactam	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0188	0.146	mg/kg dry
Carbazole	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0280	0.364	mg/kg dry
Chrysene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.00998	0.146	mg/kg dry
Dibenzo(a,h)anthracene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0144	0.146	mg/kg dry
Dibenzofuran	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.00868	0.146	mg/kg dry
Diethylphthalate	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0282	0.146	mg/kg dry
Dimethylphthalate	**SW 846 8270D**	09/17/20 08:04	09/18/20 22:17	**0.0561**	**J**	**0.00904**	**0.146**	mg/kg dry
Di-n-butylphthalate	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0595	0.146	mg/kg dry
Di-n-octylphthalate	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0299	0.146	mg/kg dry
Fluoranthene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0137	0.146	mg/kg dry
Fluorene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0121	0.146	mg/kg dry
Hexachlorobenzene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0190	0.146	mg/kg dry
Hexachlorobutadiene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0699	0.146	mg/kg dry
Hexachlorocyclopentadiene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0607	0.364	mg/kg dry
Hexachloroethane	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0160	0.146	mg/kg dry
Indeno(1,2,3-cd)pyrene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0156	0.146	mg/kg dry
Isophorone	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.00954	0.146	mg/kg dry
Naphthalene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0108	0.146	mg/kg dry
Nitrobenzene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0247	0.146	mg/kg dry
n-Nitroso-di-n-propylamine	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.00780	0.146	mg/kg dry
n-Nitrosodiphenylamine	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0311	0.146	mg/kg dry
Pentachlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0200	0.364	mg/kg dry
Phenanthrene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0191	0.146	mg/kg dry
Phenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0118	0.146	mg/kg dry
Pyrene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0107	0.146	mg/kg dry
Pesticides								
4,4'-DDD	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000651	0.00142	mg/kg dry
4,4'-DDE	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000778	0.00142	mg/kg dry
4,4'-DDT	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.00100	0.00142	mg/kg dry
Aldrin	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000674	0.00142	mg/kg dry

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APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

Analytical Results Summary

Conquest Contracting Engineers

0090585-02 (Soil)

Jefferson St

Collected	Received	Contact
09/14/2020 11:00	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
Pesticides								
alpha-BHC	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000423	0.00142	mg/kg dry
beta-BHC	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000679	0.00142	mg/kg dry
Chlordane	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000632	0.00142	mg/kg dry
delta-BHC	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000661	0.00142	mg/kg dry
Dieldrin	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000744	0.00142	mg/kg dry
Endosulfan I	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000672	0.00142	mg/kg dry
Endosulfan II	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000647	0.00142	mg/kg dry
Endosulfan sulfate	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000535	0.00142	mg/kg dry
Endrin	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000491	0.00142	mg/kg dry
Endrin aldehyde	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000567	0.00142	mg/kg dry
Endrin ketone	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000501	0.00142	mg/kg dry
gamma-BHC (Lindane)	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000451	0.00142	mg/kg dry
Heptachlor	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000381	0.00142	mg/kg dry
Heptachlor Epoxide	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000718	0.00142	mg/kg dry
Methoxychlor	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000417	0.00142	mg/kg dry
Toxaphene	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.0685	0.0722	mg/kg dry
PCBs								
Aroclor-1016	SW 846 8082A	09/17/20 08:07	09/17/20 17:05	ND	U	0.00484	0.0361	mg/kg dry
Aroclor-1221	SW 846 8082A	09/17/20 08:07	09/17/20 17:05	ND	U	0.00952	0.0361	mg/kg dry
Aroclor-1232	SW 846 8082A	09/17/20 08:07	09/17/20 17:05	ND	U	0.0121	0.0361	mg/kg dry
Aroclor-1242	SW 846 8082A	09/17/20 08:07	09/17/20 17:05	ND	U	0.00710	0.0361	mg/kg dry
Aroclor-1248	SW 846 8082A	09/17/20 08:07	09/17/20 17:05	ND	U	0.00742	0.0361	mg/kg dry
Aroclor-1254	SW 846 8082A	09/17/20 08:07	09/17/20 17:05	ND	U	0.00583	0.0361	mg/kg dry
Aroclor-1260	SW 846 8082A	09/17/20 08:07	09/17/20 17:05	ND	U	0.00452	0.0361	mg/kg dry
Aroclor-1262	SW 846 8082A	09/17/20 08:07	09/17/20 17:05	ND	U	0.00972	0.0361	mg/kg dry
Aroclor-1268	SW 846 8082A	09/17/20 08:07	09/17/20 17:05	ND	U	0.00437	0.0361	mg/kg dry
Total PCBs	SW 846 8082A	09/17/20 08:07	09/17/20 17:05	ND	U	0.00337	0.0361	mg/kg dry
VO+15 Volatile Organics - GC/MS								
1,1,1-Trichloroethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000319	0.00219	mg/kg dry
1,1,2,2-Tetrachloroethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000302	0.00219	mg/kg dry
1,1,2-Trichloro-1,2,2 Trifluoroethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000937	0.00219	mg/kg dry
1,1,2-Trichloroethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000369	0.00219	mg/kg dry
1,1-Dichloroethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000319	0.00219	mg/kg dry

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Analytical Results Summary

Conquest Contracting Engineers

0090585-02 (Soil)

Jefferson St

Collected	Received	Contact
09/14/2020 11:00	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
VO+15 Volatile Organics - GC/MS								
1,1-Dichloroethene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000405	0.00219	mg/kg dry
1,2,3-Trichlorobenzene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000473	0.00219	mg/kg dry
1,2,4-Trichlorobenzene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000583	0.00219	mg/kg dry
1,2,4-Trimethylbenzene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000302	0.00219	mg/kg dry
1,2-Dibromo-3-chloropropane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000534	0.00547	mg/kg dry
1,2-Dibromoethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000276	0.00219	mg/kg dry
1,2-Dichlorobenzene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000386	0.00219	mg/kg dry
1,2-Dichloroethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000309	0.00219	mg/kg dry
1,2-Dichloropropane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000359	0.00219	mg/kg dry
1,3-Dichlorobenzene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000161	0.00219	mg/kg dry
1,4-Dichlorobenzene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000315	0.00219	mg/kg dry
2-Butanone	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000357	0.00547	mg/kg dry
2-Hexanone	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000205	0.00219	mg/kg dry
4-Methyl-2-pentanone	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000274	0.00219	mg/kg dry
Acetone	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000663	0.00547	mg/kg dry
Benzene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000199	0.00219	mg/kg dry
Bromochloromethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000404	0.00219	mg/kg dry
Bromodichloromethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000275	0.00219	mg/kg dry
Bromoform	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000384	0.00219	mg/kg dry
Bromomethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000631	0.00219	mg/kg dry
Carbon disulfide	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000314	0.00219	mg/kg dry
Carbon Tetrachloride	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000329	0.00219	mg/kg dry
Chlorobenzene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000317	0.00219	mg/kg dry
Chlorodibromomethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000269	0.00219	mg/kg dry
Chloroethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000373	0.00219	mg/kg dry
Chloroform	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000368	0.00219	mg/kg dry
Chloromethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000843	0.00219	mg/kg dry
cis-1,2-Dichloroethene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000106	0.00219	mg/kg dry
cis-1,3-Dichloropropene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000277	0.00219	mg/kg dry
Cyclohexane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000485	0.00219	mg/kg dry
Dichlorodifluoromethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000739	0.00219	mg/kg dry
EthylBenzene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000297	0.00219	mg/kg dry
Isopropylbenzene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000344	0.00219	mg/kg dry
m+p-Xylenes	**SW 846 8260C**	09/17/20 17:56	09/17/20 17:56	**0.00115**	**J**	**0.000553**	**0.00438**	mg/kg dry
Methyl Acetate	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000290	0.00219	mg/kg dry
Methyl tert-Butyl Ether	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000370	0.00219	mg/kg dry

FootNotes

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Analytical Results Summary

Conquest Contracting Engineers

0090585-02 (Soil)

Jefferson St

Collected	Received	Contact
09/14/2020 11:00	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
VO+15 Volatile Organics - GC/MS								
Methylcyclohexane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000352	0.00219	mg/kg dry
Methylene Chloride	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000658	0.00219	mg/kg dry
o-Xylene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000281	0.00219	mg/kg dry
Styrene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000313	0.00219	mg/kg dry
tert-Butyl alcohol	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.00460	0.0219	mg/kg dry
Tetrachloroethene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000217	0.00219	mg/kg dry
Toluene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000176	0.00219	mg/kg dry
Total Xylenes	**SW 846 8260C**	09/17/20 17:56	09/17/20 17:56	**0.00115**	**J**	**0.000281**	**0.00219**	mg/kg dry
trans-1,2-Dichloroethene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000297	0.00219	mg/kg dry
trans-1,3-Dichloropropene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000418	0.00219	mg/kg dry
Trichloroethene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000322	0.00219	mg/kg dry
Trichlorofluoromethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000252	0.00219	mg/kg dry
Vinyl chloride	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000416	0.00219	mg/kg dry
VO+15 Volatile Organics - GC/MS TIC								
Azuleno[4,5-b]furan-2(3H)-one, 9-(acetyl	**SW 846 8260C**	09/17/20 17:56	09/17/20 17:56	**0.0188**	**J**			mg/kg dry
				TIC Total: 0.0188				

FootNotes

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APL
AQUA PRO-TECH LABORATORIES
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Analytical Results Summary

Conquest Contracting Engineers

0090585-03 (Soil)

Salem St

Collected	Received	Contact
09/14/2020 13:00	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Chromium, Hexavalent	SW 846 7196A	09/16/20 07:40	09/16/20 09:30	ND	U		0.481	mg/kg dry
Cyanide	SW 846 9014	09/15/20 13:13	09/16/20 15:25	ND	U		0.307	mg/kg dry
Percent Solids	**Gravimetric**	09/14/20 17:55	09/15/20 10:40	**83.9**				%
pH	**SW 846 9045D**	09/21/20 15:50	09/21/20 15:50	**6.37**			**0.0100**	pH Units
Redox Potential	**SM 2580 (mod)**	09/21/20 13:35	09/21/20 13:55	**116**			**-1000**	mV
Total Metals								
Aluminum	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**9440**			**3.00**	mg/kg dry
Antimony	SW 846 6010D	09/16/20 06:38	09/18/20 11:52	ND	U		1.50	mg/kg dry
Arsenic	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**3.15**			**1.50**	mg/kg dry
Barium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**77.9**			**0.599**	mg/kg dry
Beryllium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**0.465**			**0.0300**	mg/kg dry
Cadmium	SW 846 6010D	09/16/20 06:38	09/18/20 11:52	ND	U		0.300	mg/kg dry
Calcium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**1270**			**30.0**	mg/kg dry
Chromium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**15.3**			**0.300**	mg/kg dry
Cobalt	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**6.23**			**0.240**	mg/kg dry
Copper	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**7.73**			**0.300**	mg/kg dry
Iron	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**13500**	**B**		**5.99**	mg/kg dry
Lead	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**8.00**			**1.50**	mg/kg dry
Magnesium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**2000**			**59.9**	mg/kg dry
Manganese	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**713**			**0.300**	mg/kg dry
Mercury	**SW 846 7471B**	09/17/20 07:00	09/17/20 13:04	**0.0623**			**0.0504**	mg/kg dry
Nickel	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**11.4**			**0.150**	mg/kg dry
Potassium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**566**			**120**	mg/kg dry
Selenium	SW 846 6010D	09/16/20 06:38	09/18/20 11:52	ND	U		1.50	mg/kg dry
Silver	SW 846 6010D	09/16/20 06:38	09/18/20 11:52	ND	U		0.599	mg/kg dry
Sodium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**252**			**59.9**	mg/kg dry
Thallium	SW 846 6010D	09/16/20 06:38	09/18/20 11:52	ND	U		1.50	mg/kg dry
Vanadium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**19.8**			**0.599**	mg/kg dry
Zinc	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**30.0**			**0.899**	mg/kg dry
EPH Category 2 Extractable Petroleum Hydrocarbons Category 2								
Total EPH	**NJDEP-EPH-CAT2**	09/16/20 15:55	09/21/20 12:20	**25.5**		**11.9**	**23.8**	mg/kg dry
BNA+25 Semivolatile Organics - GC/MS								

FootNotes

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APL
AQUA PRO-TECH LABORATORIES
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Analytical Results Summary

Conquest Contracting Engineers

0090585-03 (Soil)

Salem St

Collected	Received	Contact
09/14/2020 13:00	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
BNA+25 Semivolatile Organics - GC/MS								
2,3,4,6-Tetrachlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0244	0.159	mg/kg dry
2,4,5-Trichlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0216	0.159	mg/kg dry
2,4,6-Trichlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.00993	0.159	mg/kg dry
2,4-Dichlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0160	0.159	mg/kg dry
2,4-Dimethylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0156	0.159	mg/kg dry
2,4-Dinitrophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0229	0.795	mg/kg dry
2,4-Dinitrotoluene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0169	0.159	mg/kg dry
2,6-Dinitrotoluene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0379	0.159	mg/kg dry
2-Chloronaphthalene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0182	0.159	mg/kg dry
2-Chlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0210	0.159	mg/kg dry
2-Methylnaphthalene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0380	0.238	mg/kg dry
2-Methylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0314	0.159	mg/kg dry
2-Nitroaniline	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0128	0.159	mg/kg dry
2-Nitrophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0176	0.159	mg/kg dry
3,3'-Dichlorobenzidine	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0167	0.159	mg/kg dry
3+4-Methylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0291	0.159	mg/kg dry
3-Nitroaniline	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0294	0.159	mg/kg dry
4,6-Dinitro-2-methylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0299	0.397	mg/kg dry
4-Bromophenyl-phenyl ether	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0227	0.159	mg/kg dry
4-Chloro-3-methylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0250	0.159	mg/kg dry
4-Chloroaniline	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.00556	0.159	mg/kg dry
4-Chlorophenyl phenyl ether	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.00857	0.159	mg/kg dry
4-Nitroaniline	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0794	0.159	mg/kg dry
4-Nitrophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0102	0.159	mg/kg dry
Acenaphthene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.00905	0.159	mg/kg dry
Acenaphthylene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.00552	0.159	mg/kg dry
Acetophenone	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0157	0.159	mg/kg dry
Anthracene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0230	0.159	mg/kg dry
Atrazine	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0149	0.159	mg/kg dry
Benzaldehyde	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0488	0.159	mg/kg dry
Benzo(a)anthracene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0160	0.159	mg/kg dry
Benzo(a)pyrene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0277	0.159	mg/kg dry
Benzo(b)fluoranthene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0223	0.159	mg/kg dry
Benzo(g,h,i)perylene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0129	0.159	mg/kg dry
Benzo(k)fluoranthene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0182	0.159	mg/kg dry
Biphenyl	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0139	0.159	mg/kg dry

FootNotes

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APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

Analytical Results Summary

Conquest Contracting Engineers

0090585-03 (Soil)

Salem St

Collected	Received	Contact
09/14/2020 13:00	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
BNA+25 Semivolatile Organics - GC/MS								
bis(2-chloroethoxy)methane	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0219	0.159	mg/kg dry
bis(2-chloroethyl)ether	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0174	0.159	mg/kg dry
bis(2-chloroisopropyl)ether	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0571	0.159	mg/kg dry
bis(2-ethylhexyl)phthalate	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0317	0.159	mg/kg dry
Butylbenzylphthalate	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0144	0.159	mg/kg dry
Caprolactam	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0205	0.159	mg/kg dry
Carbazole	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0305	0.397	mg/kg dry
Chrysene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0109	0.159	mg/kg dry
Dibenzo(a,h)anthracene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0157	0.159	mg/kg dry
Dibenzofuran	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.00945	0.159	mg/kg dry
Diethylphthalate	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0308	0.159	mg/kg dry
Dimethylphthalate	**SW 846 8270D**	09/17/20 08:04	09/18/20 22:45	**0.110**	**J**	**0.00985**	**0.159**	mg/kg dry
Di-n-butylphthalate	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0649	0.159	mg/kg dry
Di-n-octylphthalate	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0325	0.159	mg/kg dry
Fluoranthene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0149	0.159	mg/kg dry
Fluorene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0132	0.159	mg/kg dry
Hexachlorobenzene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0207	0.159	mg/kg dry
Hexachlorobutadiene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0762	0.159	mg/kg dry
Hexachlorocyclopentadiene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0662	0.397	mg/kg dry
Hexachloroethane	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0174	0.159	mg/kg dry
Indeno(1,2,3-cd)pyrene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0170	0.159	mg/kg dry
Isophorone	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0104	0.159	mg/kg dry
Naphthalene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0118	0.159	mg/kg dry
Nitrobenzene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0269	0.159	mg/kg dry
n-Nitroso-di-n-propylamine	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.00850	0.159	mg/kg dry
n-Nitrosodiphenylamine	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0339	0.159	mg/kg dry
Pentachlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0218	0.397	mg/kg dry
Phenanthrene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0209	0.159	mg/kg dry
Phenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0129	0.159	mg/kg dry
Pyrene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0117	0.159	mg/kg dry
Pesticides								
4,4'-DDD	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000709	0.00155	mg/kg dry
4,4'-DDE	**SW 846 8081B**	09/17/20 08:10	09/18/20 16:33	**0.00276**		**0.000848**	**0.00155**	mg/kg dry
4,4'-DDT	**SW 846 8081B**	09/17/20 08:10	09/18/20 16:33	**0.00181**		**0.00109**	**0.00155**	mg/kg dry
Aldrin	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000734	0.00155	mg/kg dry

FootNotes

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APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

Analytical Results Summary

Conquest Contracting Engineers

0090585-03 (Soil)

Salem St

Collected	Received	Contact
09/14/2020 13:00	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
Pesticides								
alpha-BHC	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000461	0.00155	mg/kg dry
beta-BHC	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000740	0.00155	mg/kg dry
Chlordane	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000689	0.00155	mg/kg dry
delta-BHC	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000720	0.00155	mg/kg dry
Dieldrin	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000811	0.00155	mg/kg dry
Endosulfan I	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000732	0.00155	mg/kg dry
Endosulfan II	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000705	0.00155	mg/kg dry
Endosulfan sulfate	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000583	0.00155	mg/kg dry
Endrin	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000535	0.00155	mg/kg dry
Endrin aldehyde	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000618	0.00155	mg/kg dry
Endrin ketone	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000546	0.00155	mg/kg dry
gamma-BHC (Lindane)	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000491	0.00155	mg/kg dry
Heptachlor	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000415	0.00155	mg/kg dry
Heptachlor Epoxide	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000782	0.00155	mg/kg dry
Methoxychlor	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000454	0.00155	mg/kg dry
Toxaphene	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.0747	0.0787	mg/kg dry
PCBs								
Aroclor-1016	SW 846 8082A	09/17/20 08:07	09/17/20 17:27	ND	U	0.00528	0.0393	mg/kg dry
Aroclor-1221	SW 846 8082A	09/17/20 08:07	09/17/20 17:27	ND	U	0.0104	0.0393	mg/kg dry
Aroclor-1232	SW 846 8082A	09/17/20 08:07	09/17/20 17:27	ND	U	0.0132	0.0393	mg/kg dry
Aroclor-1242	SW 846 8082A	09/17/20 08:07	09/17/20 17:27	ND	U	0.00773	0.0393	mg/kg dry
Aroclor-1248	SW 846 8082A	09/17/20 08:07	09/17/20 17:27	ND	U	0.00809	0.0393	mg/kg dry
Aroclor-1254	SW 846 8082A	09/17/20 08:07	09/17/20 17:27	ND	U	0.00635	0.0393	mg/kg dry
Aroclor-1260	SW 846 8082A	09/17/20 08:07	09/17/20 17:27	ND	U	0.00493	0.0393	mg/kg dry
Aroclor-1262	SW 846 8082A	09/17/20 08:07	09/17/20 17:27	ND	U	0.0106	0.0393	mg/kg dry
Aroclor-1268	SW 846 8082A	09/17/20 08:07	09/17/20 17:27	ND	U	0.00476	0.0393	mg/kg dry
Total PCBs	SW 846 8082A	09/17/20 08:07	09/17/20 17:27	ND	U	0.00367	0.0393	mg/kg dry
VO+15 Volatile Organics - GC/MS								
1,1,1-Trichloroethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000348	0.00238	mg/kg dry
1,1,2,2-Tetrachloroethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000329	0.00238	mg/kg dry
1,1,2-Trichloro-1,2,2 Trifluoroethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.00102	0.00238	mg/kg dry
1,1,2-Trichloroethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000402	0.00238	mg/kg dry
1,1-Dichloroethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000348	0.00238	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND, U - Indicates compound analyzed for but not detected
J - Indicates estimated value

B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

Analytical Results Summary

Conquest Contracting Engineers

0090585-03 (Soil)

Salem St

Collected	Received	Contact
09/14/2020 13:00	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
VO+15 Volatile Organics - GC/MS								
1,1-Dichloroethene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000441	0.00238	mg/kg dry
1,2,3-Trichlorobenzene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000515	0.00238	mg/kg dry
1,2,4-Trichlorobenzene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000635	0.00238	mg/kg dry
1,2,4-Trimethylbenzene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000329	0.00238	mg/kg dry
1,2-Dibromo-3-chloropropane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000582	0.00596	mg/kg dry
1,2-Dibromoethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000300	0.00238	mg/kg dry
1,2-Dichlorobenzene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000421	0.00238	mg/kg dry
1,2-Dichloroethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000336	0.00238	mg/kg dry
1,2-Dichloropropane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000391	0.00238	mg/kg dry
1,3-Dichlorobenzene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000175	0.00238	mg/kg dry
1,4-Dichlorobenzene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000343	0.00238	mg/kg dry
2-Butanone	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000389	0.00596	mg/kg dry
2-Hexanone	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000223	0.00238	mg/kg dry
4-Methyl-2-pentanone	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000298	0.00238	mg/kg dry
Acetone	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000722	0.00596	mg/kg dry
Benzene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000217	0.00238	mg/kg dry
Bromochloromethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000440	0.00238	mg/kg dry
Bromodichloromethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000299	0.00238	mg/kg dry
Bromoform	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000418	0.00238	mg/kg dry
Bromomethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000688	0.00238	mg/kg dry
Carbon disulfide	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000342	0.00238	mg/kg dry
Carbon Tetrachloride	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000359	0.00238	mg/kg dry
Chlorobenzene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000346	0.00238	mg/kg dry
Chlorodibromomethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000293	0.00238	mg/kg dry
Chloroethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000407	0.00238	mg/kg dry
Chloroform	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000401	0.00238	mg/kg dry
Chloromethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000918	0.00238	mg/kg dry
cis-1,2-Dichloroethene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000115	0.00238	mg/kg dry
cis-1,3-Dichloropropene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000302	0.00238	mg/kg dry
Cyclohexane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000528	0.00238	mg/kg dry
Dichlorodifluoromethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000805	0.00238	mg/kg dry
EthylBenzene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000323	0.00238	mg/kg dry
Isopropylbenzene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000374	0.00238	mg/kg dry
m+p-Xylenes	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000602	0.00477	mg/kg dry
Methyl Acetate	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000316	0.00238	mg/kg dry
Methyl tert-Butyl Ether	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000403	0.00238	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND, U - Indicates compound analyzed for but not detected
J - Indicates estimated value

B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

Analytical Results Summary

Conquest Contracting Engineers

0090585-03 (Soil)

Salem St

Collected	Received	Contact
09/14/2020 13:00	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
VO+15 Volatile Organics - GC/MS								
Methylcyclohexane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000384	0.00238	mg/kg dry
Methylene Chloride	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000716	0.00238	mg/kg dry
o-Xylene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000306	0.00238	mg/kg dry
Styrene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000341	0.00238	mg/kg dry
tert-Butyl alcohol	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.00501	0.0238	mg/kg dry
Tetrachloroethene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000236	0.00238	mg/kg dry
Toluene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000192	0.00238	mg/kg dry
Total Xylenes	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000306	0.00238	mg/kg dry
trans-1,2-Dichloroethene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000323	0.00238	mg/kg dry
trans-1,3-Dichloropropene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000455	0.00238	mg/kg dry
Trichloroethene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000350	0.00238	mg/kg dry
Trichlorofluoromethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000274	0.00238	mg/kg dry
Vinyl chloride	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000453	0.00238	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND, U - Indicates compound analyzed for but not detected
J - Indicates estimated value

B - Indicates compound found in associated blank
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APL 0090585

AQUA PRO-TECH LABORATORIES
www.aquaprotechlabs.com
BUILDING 6
FIELD, NEW JERSEY 07004
TEL: 973.227.0422
FAX: 973.227.2813

CHAIN OF CUSTODY

PAGE 1 OF 1

CLIENT: CONQUEST CONTRACTING ENGINEERS
ADDRESS: 20 CARVER AVE
WESTWOOD NJ
PHONE: 201-666-2266
E-MAIL: fsiuttino@conquestinc.net
PROJECT NAME: Jefferson St. Ridgewood
PROJECT MGR: FRANK SIUTTINO
PROJECT or PO #:

SEND REPORT TO:
ADDRESS:
PHONE:
FAX:
SEND INVOICE TO:
ADDRESS:
SAMPLED BY: MM

TURN-AROUND TIME
- [ ] APL STANDARD 2 weeks
- [x] RUSH (choose one below)
  - [ ] 24 hr. date & time required
  - [ ] 48 hr. date & time required
  - [ ] 72 hr. date & time required
  - [x] 1 week

REPORT FORMAT
- [x] RESULTS ONLY
- [ ] NJ DEP REDUCED
- [ ] NJ DEP FULL
- [ ] STATE FORMS/E2 REPORTING

PWSID#

ELECTRONIC FORMAT
- [ ] EMAIL DELIVERY
- [ ] HAZSITE EDD
- [ ] EXCEL

SRP#

CONTAMINATION LEVEL
- [ ] HIGH [ ] MEDIUM [ ] LOW

MATRIX ABBREVIATIONS: D - DRINKING WATER G - GROUNDWATER W - WASTEWATER S - SOIL SL - SLUDGE C - CONCRETE L - LAKE

APL Lab ID#	Sample Source: Field ID	Date	Time	Sample Type: GRAB	Sample Type: COMP	MATRIX	No. of Bottles	Preservative	Analysis Requested
0090585-01	WILLIAMS ST.	9/14/20	8:50 AM			S	1		TCL/TAL+30, EPH 2, HEXAVALENT CHROMIUM, PH
02	JEFFERSON ST.	9/14/20	11:00 AM			S	1		
03	SALEM ST.	9/14/20	1:00 PM			S	1		

RELINQUISHED BY (Print)	Michael Moreno	DATE 9/14/20	RECEIVED BY (Print)
Signature		Time	Signature
RELINQUISHED BY (Print)		DATE 9/14/20	RECEIVED BY (Print)
Signature		Time 16:05	Signature
RELINQUISHED BY (Print)		DATE	RECEIVED BY (Print)
Signature		Time	Signature

COMMENTS/SPECIAL INSTRUCTIONS

Cooler Temp. upon receipt at lab 4.0

CERTIFICATIONS: NELAP (National Environmental Laboratory Accredation Program) NJDEP #07010 PADEP #68-02903 NYDOH #11634 CTPH #0233 US ARMY

By signing this Chain of Custody Agreement, customer expressly agrees to pay APL for all charges, reasonably incurred in connection with analysis and reporting for these samples

APPENDIX G

RIDGEWOOD WATER COMPANY SPOIL PILE ANALYTICAL DATA

eurofins | Lancaster Laboratories Environmental

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Eurofins QC Laboratories
1205 Industrial Blvd.
P.O. Box 514
Southampton, PA 18966-0514

Report Date: December 22, 2016

Project: L6065481

Submittal Date: 11/30/2016
Group Number: 1739018
SDG: EDR01
PO Number: L6065481
State of Sample Origin: NJ

Client Sample Description	Lancaster Labs (LL) #
L6065481-1 Grab Soil	8721669

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our current scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ . To request copies of prior scopes of accreditation, contact your project manager.

Electronic Copy To Eurofins QC Laboratories Attn: Nicki Smith

Respectfully Submitted,

Bonnie Gingras
Manager

(201) 729-1907

Project Name: L6065481
LL Group #: 1739018

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are not included in this data set

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

SW-846 8260B, GC/MS Volatiles

Batch #: B163421AA (Sample number(s): 8721669 UNSPK: P719335)

The recovery(ies) for the following analyte(s) in the MS was outside the acceptance window: Chloromethane, Vinyl Chloride, Chlorobenzene, Ethylbenzene, Styrene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene, Xylene (Total), Acrylonitrile

SW-846 8270C, GC/MS Semivolatiles

Sample #s: 8721669

Reporting limits were raised due to interference from the sample matrix. The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC/DoD Standards. The following analytes are accepted based on this allowance:
Hexachlorocyclopentadiene

Batch #: 16337SLN026 (Sample number(s): 8721669 UNSPK: P720165)

The recovery(ies) for the following analyte(s) in the LCS were below the acceptance window: Hexachlorocyclopentadiene

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: N-Nitroso-di-n-propylamine, 4-Chloro-3-methylphenol, Acenaphthene, Pentachlorophenol, Pyrene, 2,4-Dichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrophenol, Hexachloroethane, Nitrobenzene, Isophorone, Naphthalene, Hexachlorocyclopentadiene, Dimethylphthalate, Fluorene, Diethylphthalate, N-Nitrosodiphenylamine, Hexachlorobenzene, Anthracene, Di-n-butylphthalate, Fluoranthene, Butylbenzylphthalate, Benzo(a)anthracene, Chrysene, 3,3'-Dichlorobenzidine, bis(2-Ethylhexyl)phthalate, Di-n-octylphthalate, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzyl alcohol, 2-Methylphenol, 4-Chloroaniline, 2,4,5-Trichlorophenol, Phenol, 2,4-Dimethylphenol, bis(2-Chloroethyl)ether, bis(2-Chloroisopropyl)ether, Benzo(b)fluoranthene

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside outside acceptance windows: N-Nitroso-di-n-propylamine, Acenaphthene, 2,4-Dichlorophenol, 2,4,6-Trichlorophenol, bis(2-Chloroethyl)ether, bis(2-Chloroisopropyl)ether, Nitrobenzene, Isophorone, Fluorene, N-Nitrosodiphenylamine, Chrysene, 2,4,5-Trichlorophenol

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) MS, MSD

SW-846 6010C, Metals

Batch #: 163370637003 (Sample number(s): 8721669 UNSPK: 8721669 BKG: 8721669)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Copper

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside outside acceptance windows: Copper

The duplicate RPD for the following analyte(s) exceeded the acceptance window: Arsenic, Antimony, Barium, Cadmium

Sample Description: L6065481-1 Grab Soil
SOIL/DIRT

LL Sample # SW 8721669
LL Group # 1739018
Account # 26325

Project Name: L6065481

Collected: 11/28/2016 07:00 by BD

Submitted: 11/30/2016 05:30
Reported: 12/22/2016 14:05

Eurofins QC Laboratories
1205 Industrial Blvd.
P.O. Box 514
Southampton, PA 18966-0514

SOILD SDG#: EDR01-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	8	22	0.97
10237	Acrylonitrile	107-13-1	N.D. Q4	4	22	0.97
10237	Benzene	71-43-2	N.D.	0.5	5	0.97
10237	Bromodichloromethane	75-27-4	N.D.	1	5	0.97
10237	Bromoform	75-25-2	N.D.	1	5	0.97
10237	Bromomethane	74-83-9	N.D.	2	5	0.97
10237	2-Butanone	78-93-3	N.D.	4	11	0.97
10237	Carbon Tetrachloride	56-23-5	N.D.	1	5	0.97
10237	Chlorobenzene	108-90-7	N.D. Q4	1	5	0.97
10237	Chloroform	67-66-3	N.D.	1	5	0.97
10237	Chloromethane	74-87-3	N.D. Q4	2	5	0.97
10237	Dibromochloromethane	124-48-1	N.D.	1	5	0.97
10237	1,2-Dichlorobenzene	95-50-1	N.D. Q4	1	5	0.97
10237	1,3-Dichlorobenzene	541-73-1	N.D. Q4	1	5	0.97
10237	1,4-Dichlorobenzene	106-46-7	N.D. Q4	1	5	0.97
10237	1,1-Dichloroethane	75-34-3	N.D.	1	5	0.97
10237	1,2-Dichloroethane	107-06-2	N.D.	1	5	0.97
10237	1,1-Dichloroethene	75-35-4	N.D.	1	5	0.97
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	5	0.97
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	5	0.97
10237	1,2-Dichloropropane	78-87-5	N.D.	1	5	0.97
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	5	0.97
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	5	0.97
10237	Ethylbenzene	100-41-4	N.D. Q4	1	5	0.97
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	11	0.97
10237	Methylene Chloride	75-09-2	N.D.	2	5	0.97
10237	Styrene	100-42-5	N.D. Q4	1	5	0.97
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	5	0.97
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	5	0.97
10237	Tetrachloroethene	127-18-4	N.D.	1	5	0.97
10237	Toluene	108-88-3	N.D.	1	5	0.97
10237	1,2,4-Trichlorobenzene	120-82-1	N.D. Q4	1	5	0.97
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	5	0.97
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	5	0.97
10237	Trichloroethene	79-01-6	N.D.	1	5	0.97
10237	Vinyl Chloride	75-01-4	N.D. Q4	1	5	0.97
10237	Xylene (Total)	1330-20-7	N.D. Q4	1	5	0.97
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg	ug/kg	ug/kg	
10727	Acenaphthene	83-32-9	N.D. Q4Q9	180	940	10
10727	Anthracene	120-12-7	N.D. Q4	180	940	10
10727	Benzo(a)anthracene	56-55-3	N.D. Q4	180	940	10
10727	Benzo(a)pyrene	50-32-8	N.D. Q4	180	940	10
10727	Benzo(b)fluoranthene	205-99-2	N.D. Q4	180	940	10
10727	Benzo(k)fluoranthene	207-08-9	N.D.	180	940	10
10727	Benzyl alcohol	100-51-6	N.D. Q4	9,200	28,000	10
10727	Butylbenzylphthalate	85-68-7	N.D. Q4	3,700	9,200	10
10727	Di-n-butylphthalate	84-74-2	N.D. Q4	3,700	9,200	10
10727	4-Chloro-3-methylphenol	59-50-7	N.D. Q4	920	1,800	10

*=This limit was used in the evaluation of the final result

Sample Description: L6065481-1 Grab Soil
SOIL/DIRT

LL Sample # SW 8721669
LL Group # 1739018
Account # 26325

Project Name: L6065481

Collected: 11/28/2016 07:00 by BD

Submitted: 11/30/2016 05:30
Reported: 12/22/2016 14:05

Eurofins QC Laboratories
1205 Industrial Blvd.
P.O. Box 514
Southampton, PA 18966-0514

SOILD SDG#: EDR01-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
10727	4-Chloroaniline	106-47-8	N.D. Q4	1,800	3,700	10
10727	bis(2-Chloroethyl)ether	111-44-4	N.D. Q4Q9	920	1,800	10
10727	bis(2-Chloroisopropyl)ether	39638-32-9	N.D. Q4Q9	920	1,800	10
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10727	2-Chlorophenol	95-57-8	N.D.	920	1,800	10
10727	Chrysene	218-01-9	N.D. Q4Q9	180	940	10
10727	Dibenz(a,h)anthracene	53-70-3	N.D.	180	940	10
10727	3,3'-Dichlorobenzidine	91-94-1	N.D. Q4	5,500	18,000	10
10727	2,4-Dichlorophenol	120-83-2	N.D. Q4Q9	920	1,800	10
10727	Diethylphthalate	84-66-2	N.D. Q4	3,700	9,200	10
10727	2,4-Dimethylphenol	105-67-9	N.D. Q4	920	1,800	10
10727	Dimethylphthalate	131-11-3	N.D. Q4	3,700	9,200	10
10727	2,4-Dinitrophenol	51-28-5	N.D. Q4	17,000	55,000	10
10727	2,4_2,6-Dinitrotoluenes	25321-14-6	N.D.	1,800	9,200	10
10727	bis(2-Ethylhexyl)phthalate	117-81-7	N.D. Q4	3,700	9,400	10
10727	Fluoranthene	206-44-0	N.D. Q4	180	940	10
10727	Fluorene	86-73-7	N.D. Q4Q9	180	940	10
10727	Hexachlorobenzene	118-74-1	N.D. Q4	180	940	10
10727	Hexachlorobutadiene	87-68-3	N.D.	920	1,800	10
10727	Hexachlorocyclopentadiene	77-47-4	N.D. Q0Q4	9,200	28,000	10
10727	Hexachloroethane	67-72-1	N.D. Q4	1,800	9,200	10
10727	Indeno(1,2,3-cd)pyrene	193-39-5	N.D. Q4	180	940	10
10727	Isophorone	78-59-1	N.D. Q4Q9	920	1,800	10
10727	2-Methylphenol	95-48-7	N.D. Q4	920	1,800	10
10727	4-Methylphenol	106-44-5	N.D.	920	1,800	10
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10727	Naphthalene	91-20-3	N.D. Q4	180	940	10
10727	Nitrobenzene	98-95-3	N.D. Q4Q9	920	1,800	10
10727	N-Nitroso-di-n-propylamine	621-64-7	N.D. Q4Q9	920	1,800	10
10727	N-Nitrosodiphenylamine	86-30-6	N.D. Q4Q9	920	1,800	10
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10727	Di-n-octylphthalate	117-84-0	N.D. Q4	3,700	9,200	10
10727	Pentachlorophenol	87-86-5	N.D. Q4	1,800	9,400	10
10727	Phenol	108-95-2	N.D. Q4	920	1,800	10
10727	Pyrene	129-00-0	N.D. Q4	180	940	10
10727	2,4,5-Trichlorophenol	95-95-4	N.D. Q4Q9	920	1,800	10
10727	2,4,6-Trichlorophenol	88-06-2	N.D. Q4Q9	920	1,800	10

Reporting limits were raised due to interference from the sample matrix.

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC/DoD Standards. The following analytes are accepted based on this allowance:

*=This limit was used in the evaluation of the final result

Sample Description: L6065481-1 Grab Soil
SOIL/DIRT

LL Sample # SW 8721669
LL Group # 1739018
Account # 26325

Project Name: L6065481

Collected: 11/28/2016 07:00 by BD

Submitted: 11/30/2016 05:30
Reported: 12/22/2016 14:05

Eurofins QC Laboratories
1205 Industrial Blvd.
P.O. Box 514
Southampton, PA 18966-0514

SOILD SDG#: EDR01-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Hexachlorocyclopentadiene					
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**	**ug/kg**	**ug/kg**	
10738	Aldrin	309-00-2	N.D.	0.19	0.91	1
10738	Gamma BHC - Lindane	58-89-9	N.D.	0.19	0.91	1
10738	p,p-DDD	72-54-8	N.D.	0.36	1.9	1
10738	p,p-DDE	72-55-9	0.97 J	0.36	1.9	1
10738	p,p-DDT	50-29-3	1.1 J	0.38	1.9	1
10738	Dieldrin	60-57-1	N.D.	0.36	1.9	1
10738	Endosulfan I	959-98-8	N.D.	0.24	0.91	1
10738	Endosulfan II	33213-65-9	N.D.	0.36	1.9	1
10738	Endrin	72-20-8	N.D.	0.36	1.9	1
10738	Heptachlor	76-44-8	N.D.	0.19	0.91	1
10738	Methoxychlor	72-43-5	N.D.	1.9	7.3	1
10738	Toxaphene	8001-35-2	N.D.	15	36	1
Pesticides/PCBs	**SW-846 8082A Feb 2007 Rev 1**		**ug/kg**	**ug/kg**	**ug/kg**	
10885	PCB-1016	12674-11-2	N.D.	3.9	19	1
10885	PCB-1221	11104-28-2	N.D.	5.0	19	1
10885	PCB-1232	11141-16-5	N.D.	8.7	19	1
10885	PCB-1242	53469-21-9	N.D.	3.6	19	1
10885	PCB-1248	12672-29-6	N.D.	3.6	19	1
10885	PCB-1254	11097-69-1	N.D.	3.6	19	1
10885	PCB-1260	11096-82-5	N.D.	5.3	19	1
Metals	**SW-846 6010C**		**mg/kg**	**mg/kg**	**mg/kg**	
06944	Antimony	7440-36-0	0.854 J Q8	0.651	3.72	1
06935	Arsenic	7440-38-2	1.74 J Q8	0.903	3.72	1
06946	Barium	7440-39-3	33.5 Q8	0.0307	0.931	1
06947	Beryllium	7440-41-7	0.306 J	0.0624	0.931	1
06949	Cadmium	7440-43-9	0.0819 J Q8	0.0456	0.931	1
06951	Chromium	7440-47-3	10.8	0.130	2.79	1
02829	Trivalent Chromium soils	16065-83-1	10.8	0.55	2.8	1
	The Trivalent Chromium result is calculated by subtracting Hexavalent Chromium from Total Chromium.					
06953	Copper	7440-50-8	9.72 Q4Q9	0.214	1.86	1
06955	Lead	7439-92-1	5.04 B	0.512	2.79	1
06961	Nickel	7440-02-0	8.08	0.279	1.86	1
06936	Selenium	7782-49-2	1.70 J	0.838	3.72	1
06966	Silver	7440-22-4	N.D.	0.140	0.931	1
06925	Thallium	7440-28-0	2.08 J	0.763	5.58	1
06971	Vanadium	7440-62-2	22.1	0.130	0.931	1
06972	Zinc	7440-66-6	16.8	0.633	3.72	1
Wet Chemistry	**SW-846 9012B**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	Total Cyanide (solid)	57-12-5	N.D.	0.21	0.57	1
	SW-846 7196A		**mg/kg**	**mg/kg**	**mg/kg**	
00425	Hexavalent Chromium (SOLIDS)	18540-29-9	N.D.	0.55	1.7	1

*=This limit was used in the evaluation of the final result

Sample Description: L6065481-1 Grab Soil
SOIL/DIRT

LL Sample # SW 8721669
LL Group # 1739018
Account # 26325

Project Name: L6065481

Collected: 11/28/2016 07:00 by BD

Submitted: 11/30/2016 05:30
Reported: 12/22/2016 14:05

Eurofins QC Laboratories
1205 Industrial Blvd.
P.O. Box 514
Southampton, PA 18966-0514

SOILD SDG#: EDR01-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SM 2540 G-1997**		%	%	%	
00111	Moisture	n.a.	9.7	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					
07400	Percent Solids	n.a.	90.3	0.50	0.50	1
	The total residue is calculated by subtracting the moisture value from 100%.					

Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B163421AA	12/08/2016 01:42	Patrick T Herres	0.97
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201633843627	12/03/2016 12:20	Katelyn C Shober	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201633843627	12/03/2016 12:20	Katelyn C Shober	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201633843627	12/03/2016 11:33	Katelyn C Shober	n.a.
10727	TCL 8270 (microwave)	SW-846 8270C	1	16337SLN026	12/08/2016 14:37	Linda M Hartenstine	10
10809	BNA Soil Microwave	SW-846 3546	1	16337SLN026	12/05/2016 09:30	Gladys Doddamani	1
10738	Pesticides in Soil (microwave)	SW-846 8081A	1	163410013A	12/21/2016 14:10	Andrea L Jones	1
10885	PCBs 8082A/3546	SW-846 8082A Feb 2007 Rev 1	1	163410014A	12/08/2016 00:43	Kirby B Turner	1
10497	PCB Microwave Soil Extraction	SW-846 3546	1	163410014A	12/07/2016 09:00	Michelle A Newswanger	1
10496	PPL Pest. Microwave Extraction	SW-846 3546	1	163410013A	12/07/2016 09:00	Michelle A Newswanger	1
06944	Antimony	SW-846 6010C	1	163370637003	12/08/2016 10:04	Katlin N Cataldi	1
06935	Arsenic	SW-846 6010C	1	163370637003	12/08/2016 10:04	Katlin N Cataldi	1
06946	Barium	SW-846 6010C	1	163370637003	12/08/2016 10:04	Katlin N Cataldi	1
06947	Beryllium	SW-846 6010C	1	163370637003	12/08/2016 10:04	Katlin N Cataldi	1
06949	Cadmium	SW-846 6010C	1	163370637003	12/08/2016 10:04	Katlin N Cataldi	1
06951	Chromium	SW-846 6010C	1	163370637003	12/08/2016 10:04	Katlin N Cataldi	1
02829	Trivalent Chromium soils	SW-846 6010C	1	163562829001	12/21/2016 08:35	Nina C Haller	1
06953	Copper	SW-846 6010C	1	163370637003	12/08/2016 10:04	Katlin N Cataldi	1
06955	Lead	SW-846 6010C	1	163370637003	12/09/2016 21:23	Cindy M Gehman	1
06961	Nickel	SW-846 6010C	1	163370637003	12/08/2016 10:04	Katlin N Cataldi	1

*=This limit was used in the evaluation of the final result

Sample Description: L6065481-1 Grab Soil
SOIL/DIRT

LL Sample # SW 8721669
LL Group # 1739018
Account # 26325

Project Name: L6065481

Collected: 11/28/2016 07:00 by BD

Submitted: 11/30/2016 05:30
Reported: 12/22/2016 14:05

Eurofins QC Laboratories
1205 Industrial Blvd.
P.O. Box 514
Southampton, PA 18966-0514

SOILD SDG#: EDR01-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06936	Selenium	SW-846 6010C	1	163370637003	12/08/2016 10:04	Katlin N Cataldi	1
06966	Silver	SW-846 6010C	1	163370637003	12/08/2016 10:04	Katlin N Cataldi	1
06925	Thallium	SW-846 6010C	1	163370637003	12/08/2016 10:04	Katlin N Cataldi	1
06971	Vanadium	SW-846 6010C	1	163370637003	12/08/2016 10:04	Katlin N Cataldi	1
06972	Zinc	SW-846 6010C	1	163370637003	12/08/2016 10:04	Katlin N Cataldi	1
10637	ICP/ICPMS-SW, 3050B - U4	SW-846 3050B	1	163370637003	12/04/2016 22:32	Annamaria Kuhns	1
05895	Total Cyanide (solid)	SW-846 9012B	1	16337102201A	12/03/2016 12:00	Brianna A White	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	16337102201A	12/02/2016 18:45	Barbara A Washington	1
00425	Hexavalent Chromium (SOLIDS)	SW-846 7196A	1	16352042501A	12/18/2016 06:25	Daniel S Smith	1
07825	Hexavalent Cr (Extraction)	SW-846 3060A	1	16352042501A	12/17/2016 07:30	Daniel S Smith	1
00111	Moisture	SM 2540 G-1997	1	16337820001A	12/02/2016 11:38	Larry E Bevins	1
07400	Percent Solids	SM 2540 G-1997	1	16337820001A	12/02/2016 11:38	Larry E Bevins	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: Eurofins QC Laboratories
Reported: 12/22/2016 14:05

Group Number: 1739018

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result	MDL**	LOQ
	ug/kg	ug/kg	ug/kg
Batch number: B163421AA	Sample number(s): 8721669		
Acetone	N.D.	7	20
Acrylonitrile	N.D.	4	20
Benzene	N.D.	0.5	5
Bromodichloromethane	N.D.	1	5
Bromoform	N.D.	1	5
Bromomethane	N.D.	2	5
2-Butanone	N.D.	4	10
Carbon Tetrachloride	N.D.	1	5
Chlorobenzene	N.D.	1	5
Chloroform	N.D.	1	5
Chloromethane	N.D.	2	5
Dibromochloromethane	N.D.	1	5
1,2-Dichlorobenzene	N.D.	1	5
1,3-Dichlorobenzene	N.D.	1	5
1,4-Dichlorobenzene	N.D.	1	5
1,1-Dichloroethane	N.D.	1	5
1,2-Dichloroethane	N.D.	1	5
1,1-Dichloroethene	N.D.	1	5
cis-1,2-Dichloroethene	N.D.	1	5
trans-1,2-Dichloroethene	N.D.	1	5
1,2-Dichloropropane	N.D.	1	5
cis-1,3-Dichloropropene	N.D.	1	5
trans-1,3-Dichloropropene	N.D.	1	5
Ethylbenzene	N.D.	1	5
4-Methyl-2-pentanone	N.D.	3	10
Methylene Chloride	N.D.	2	5
Styrene	N.D.	1	5
1,1,1,2-Tetrachloroethane	N.D.	1	5
1,1,2,2-Tetrachloroethane	N.D.	1	5
Tetrachloroethene	N.D.	1	5
Toluene	N.D.	1	5
1,2,4-Trichlorobenzene	N.D.	1	5
1,1,1-Trichloroethane	N.D.	1	5
1,1,2-Trichloroethane	N.D.	1	5
Trichloroethene	N.D.	1	5
Vinyl Chloride	N.D.	1	5
Xylene (Total)	N.D.	1	5
Batch number: 16337SLN026	Sample number(s): 8721669		
Acenaphthene	N.D.	3	17
Anthracene	N.D.	3	17

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Eurofins QC Laboratories
Reported: 12/22/2016 14:05

Group Number: 1739018

Method Blank (continued)

Analysis Name	Result	MDL**	LOQ
	ug/kg	ug/kg	ug/kg
Benzo(a)anthracene	N.D.	3	17
Benzo(a)pyrene	N.D.	3	17
Benzo(b)fluoranthene	N.D.	3	17
Benzo(k)fluoranthene	N.D.	3	17
Benzyl alcohol	N.D.	170	500
Butylbenzylphthalate	N.D.	67	170
Di-n-butylphthalate	N.D.	67	170
4-Chloro-3-methylphenol	N.D.	17	33
4-Chloroaniline	N.D.	33	67
bis(2-Chloroethyl)ether	N.D.	17	33
bis(2-Chloroisopropyl)ether	N.D.	17	33
2-Chlorophenol	N.D.	17	33
Chrysene	N.D.	3	17
Dibenz(a,h)anthracene	N.D.	3	17
3,3'-Dichlorobenzidine	N.D.	100	330
2,4-Dichlorophenol	N.D.	17	33
Diethylphthalate	N.D.	67	170
2,4-Dimethylphenol	N.D.	17	33
Dimethylphthalate	N.D.	67	170
2,4-Dinitrophenol	N.D.	300	1,000
2,4_2,6-Dinitrotoluenes	N.D.	33	170
bis(2-Ethylhexyl)phthalate	N.D.	67	170
Fluoranthene	N.D.	3	17
Fluorene	N.D.	3	17
Hexachlorobenzene	N.D.	3	17
Hexachlorobutadiene	N.D.	17	33
Hexachlorocyclopentadiene	N.D.	170	500
Hexachloroethane	N.D.	33	170
Indeno(1,2,3-cd)pyrene	N.D.	3	17
Isophorone	N.D.	17	33
2-Methylphenol	N.D.	17	33
4-Methylphenol	N.D.	17	33
Naphthalene	N.D.	3	17
Nitrobenzene	N.D.	17	33
N-Nitroso-di-n-propylamine	N.D.	17	33
N-Nitrosodiphenylamine	N.D.	17	33
Di-n-octylphthalate	N.D.	67	170
Pentachlorophenol	N.D.	33	170
Phenol	N.D.	17	33
Pyrene	N.D.	3	17
2,4,5-Trichlorophenol	N.D.	17	33
2,4,6-Trichlorophenol	N.D.	17	33
Batch number: 163410013A	Sample number(s): 8721669		
Aldrin	N.D.	0.17	0.83
Gamma BHC - Lindane	N.D.	0.17	0.83
p,p-DDD	N.D.	0.33	1.7
p,p-DDE	N.D.	0.33	1.7
p,p-DDT	N.D.	0.35	1.7

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Eurofins QC Laboratories
Reported: 12/22/2016 14:05

Group Number: 1739018

Method Blank (continued)

Analysis Name	Result	MDL**	LOQ
	ug/kg	ug/kg	ug/kg
Dieldrin	N.D.	0.33	1.7
Endosulfan I	N.D.	0.22	0.83
Endosulfan II	N.D.	0.33	1.7
Endrin	N.D.	0.33	1.7
Heptachlor	N.D.	0.17	0.83
Methoxychlor	N.D.	1.7	6.7
Toxaphene	N.D.	14	33
Batch number: 163410014A	Sample number(s): 8721669		
PCB-1016	N.D.	3.6	17
PCB-1221	N.D.	4.6	17
PCB-1232	N.D.	8.0	17
PCB-1242	N.D.	3.3	17
PCB-1248	N.D.	3.3	17
PCB-1254	N.D.	3.3	17
PCB-1260	N.D.	4.9	17
	mg/kg	mg/kg	mg/kg
Batch number: 163370637003	Sample number(s): 8721669		
Antimony	N.D.	0.700	4.00
Arsenic	N.D.	0.970	4.00
Barium	N.D.	0.0330	1.00
Beryllium	N.D.	0.0670	1.00
Cadmium	N.D.	0.0490	1.00
Chromium	N.D.	0.140	3.00
Copper	N.D.	0.230	2.00
Lead	0.666 J	0.550	3.00
Nickel	N.D.	0.300	2.00
Selenium	N.D.	0.900	4.00
Silver	N.D.	0.150	1.00
Thallium	N.D.	0.820	6.00
Vanadium	N.D.	0.140	1.00
Zinc	N.D.	0.680	4.00
Batch number: 16337102201A	Sample number(s): 8721669		
Total Cyanide (solid)	N.D.	0.18	0.50
Batch number: 16352042501A	Sample number(s): 8721669		
Hexavalent Chromium (SOLIDS)	N.D.	0.50	1.5

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ug/kg	ug/kg	ug/kg	ug/kg					
Batch number: B163421AA	Sample number(s): 8721669								
Acetone	150	190.61	150	178.15	127	119	39-150	7	30

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Eurofins QC Laboratories
Reported: 12/22/2016 14:05

Group Number: 1739018

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/kg	LCS Conc ug/kg	LCSD Spike Added ug/kg	LCSD Conc ug/kg	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Acrylonitrile	100	104.61	100	102.23	105	102	66-120	2	30
Benzene	20	18.77	20	18.52	94	93	80-120	1	30
Bromodichloromethane	20	17.17	20	17.21	86	86	75-120	0	30
Bromoform	20	14.33	20	13.95	72	70	57-127	3	30
Bromomethane	20	18.33	20	18.24	92	91	21-165	0	30
2-Butanone	150	132.64	150	133.55	88	89	54-129	1	30
Carbon Tetrachloride	20	18.1	20	18.02	90	90	69-130	0	30
Chlorobenzene	20	17.9	20	17.64	90	88	80-120	1	30
Chloroform	20	19.03	20	18.9	95	95	80-120	1	30
Chloromethane	20	20.6	20	19.32	103	97	56-120	6	30
Dibromochloromethane	20	15.63	20	15.63	78	78	77-120	0	30
1,2-Dichlorobenzene	20	17.96	20	17.84	90	89	80-120	1	30
1,3-Dichlorobenzene	20	17.1	20	16.64	85	83	80-120	3	30
1,4-Dichlorobenzene	20	17.47	20	17.28	87	86	80-120	1	30
1,1-Dichloroethane	20	19.43	20	19.3	97	96	77-120	1	30
1,2-Dichloroethane	20	20.71	20	20.71	104	104	70-133	0	30
1,1-Dichloroethene	20	19.63	20	19.34	98	97	73-129	2	30
cis-1,2-Dichloroethene	20	18.19	20	18.17	91	91	80-120	0	30
trans-1,2-Dichloroethene	20	20.22	20	19.92	101	100	80-125	2	30
1,2-Dichloropropane	20	18.94	20	18.79	95	94	76-120	1	30
cis-1,3-Dichloropropene	20	17.23	20	17.16	86	86	74-120	0	30
trans-1,3-Dichloropropene	20	17.12	20	16.92	86	85	76-120	1	30
Ethylbenzene	20	18.01	20	17.84	90	89	80-120	1	30
4-Methyl-2-pentanone	100	95.29	100	93.29	95	93	48-136	2	30
Methylene Chloride	20	19.33	20	19.14	97	96	76-122	1	30
Styrene	20	16.84	20	16.86	84	84	76-120	0	30
1,1,1,2-Tetrachloroethane	20	16.86	20	16.79	84	84	75-120	0	30
1,1,2,2-Tetrachloroethane	20	15.51	20	15.04	78	75	67-121	3	30
Tetrachloroethene	20	20.07	20	18.77	100	94	78-120	7	30
Toluene	20	18.02	20	17.79	90	89	80-120	1	30
1,2,4-Trichlorobenzene	20	16.54	20	15.97	83	80	63-121	4	30
1,1,1-Trichloroethane	20	16.59	20	16.4	83	82	66-128	1	30
1,1,2-Trichloroethane	20	17.18	20	16.98	86	85	80-120	1	30
Trichloroethene	20	18.61	20	18.26	93	91	80-120	2	30
Vinyl Chloride	20	19.41	20	19.35	97	97	59-120	0	30
Xylene (Total)	60	54.63	60	53.79	91	90	80-120	2	30
	ug/kg	ug/kg	ug/kg	ug/kg					
Batch number: 16337SLN026	Sample number(s): 8721669								
Acenaphthene	1666.67	1575.23			95		83-116		
Anthracene	1666.67	1524.17			91		82-118		
Benzo(a)anthracene	1666.67	1604.8			96		76-119		
Benzo(a)pyrene	1666.67	1601			96		85-117		
Benzo(b)fluoranthene	1666.67	1735.32			104		79-121		
Benzo(k)fluoranthene	1666.67	1555.95			93		79-120		
Benzyl alcohol	1666.67	1756.94			105		64-119		
Butylbenzylphthalate	1666.67	1541.29			92		80-118		
Di-n-butylphthalate	1666.67	1510.28			91		84-120		

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Quality Control Summary

Client Name: Eurofins QC Laboratories Group Number: 1739018
Reported: 12/22/2016 14:05

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/kg	LCS Conc ug/kg	LCSD Spike Added ug/kg	LCSD Conc ug/kg	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Chloro-3-methylphenol	1666.67	1746.03			105		74-132		
4-Chloroaniline	1666.67	760.2			46		10-100		
bis(2-Chloroethyl)ether	1666.67	1679.49			101		77-115		
bis(2-Chloroisopropyl)ether	1666.67	1563.24			94		62-127		
2-Chlorophenol	1666.67	1688.52			101		85-123		
Chrysene	1666.67	1554.5			93		80-121		
Dibenz(a,h)anthracene	1666.67	1665.92			100		81-123		
3,3'-Dichlorobenzidine	1666.67	901.99			54		10-116		
2,4-Dichlorophenol	1666.67	1684.81			101		86-125		
Diethylphthalate	1666.67	1564.88			94		81-118		
2,4-Dimethylphenol	1666.67	1331.07			80		73-117		
Dimethylphthalate	1666.67	1576.81			95		82-113		
2,4-Dinitrophenol	3333.33	2112.86			63		16-132		
bis(2-Ethylhexyl)phthalate	1666.67	1551.53			93		81-121		
Fluoranthene	1666.67	1465.88			88		81-117		
Fluorene	1666.67	1637.71			98		86-118		
Hexachlorobenzene	1666.67	1601.85			96		79-116		
Hexachlorobutadiene	1666.67	1539.46			92		72-120		
Hexachlorocyclopentadiene	3333.33	1676.48			50*		57-142		
Hexachloroethane	1666.67	1488.81			89		78-114		
Indeno(1,2,3-cd)pyrene	1666.67	1589.47			95		75-118		
Isophorone	1666.67	1633.69			98		77-118		
2-Methylphenol	1666.67	1756.65			105		80-133		
4-Methylphenol	1666.67	1640.96			98		73-125		
Naphthalene	1666.67	1517.57			91		82-112		
Nitrobenzene	1666.67	1633.62			98		70-122		
N-Nitroso-di-n-propylamine	1666.67	1707.41			102		67-121		
N-Nitrosodiphenylamine	1666.67	1563.65			94		83-118		
Di-n-octylphthalate	1666.67	1788.28			107		80-140		
Pentachlorophenol	1666.67	1090.15			65		63-128		
Phenol	1666.67	1687.75			101		73-122		
Pyrene	1666.67	1496.73			90		80-120		
2,4,5-Trichlorophenol	1666.67	1705.04			102		86-123		
2,4,6-Trichlorophenol	1666.67	1729.72			104		81-123		
	ug/kg	ug/kg	ug/kg	ug/kg					
Batch number: 163410013A	Sample number(s): 8721669								
Aldrin	3.40	2.96			87		60-117		
Gamma BHC - Lindane	3.33	3.25			97		47-140		
p,p-DDD	6.60	6.70			102		69-138		
p,p-DDE	6.80	6.95			102		68-146		
p,p-DDT	6.60	6.61			100		67-135		
Dieldrin	6.60	5.98			91		63-126		
Endosulfan I	3.33	2.95			89		62-119		
Endosulfan II	6.77	5.98			88		65-126		
Endrin	6.67	6.18			93		65-125		
Heptachlor	3.33	3.02			91		66-118		
Methoxychlor	33.1	34.81			105		65-131		

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Quality Control Summary

Client Name: Eurofins QC Laboratories
Reported: 12/22/2016 14:05

Group Number: 1739018

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/kg	LCS Conc ug/kg	LCSD Spike Added ug/kg	LCSD Conc ug/kg	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 163410014A	Sample number(s): 8721669								
PCB-1016	168	163.14			97		76-121		
PCB-1260	167	166.89			100		79-130		
	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 163370637003	Sample number(s): 8721669								
Antimony	50	51.16			102		80-120		
Arsenic	15	15.03			100		80-120		
Barium	200	204.75			102		80-120		
Beryllium	5.00	5.14			103		80-120		
Cadmium	5.00	5.16			103		80-120		
Chromium	20	20.2			101		80-120		
Copper	25	25.68			103		80-120		
Lead	15	15.26			102		80-120		
Nickel	50	52.1			104		80-120		
Selenium	15	15.6			104		80-120		
Silver	5.00	5.20			104		80-120		
Thallium	15	15.77			105		80-120		
Vanadium	50	50.97			102		80-120		
Zinc	50	50.71			101		80-120		
	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16337102201A	Sample number(s): 8721669								
Total Cyanide (solid)	10	10.15			101		90-110		
	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16352042501A	Sample number(s): 8721669								
Hexavalent Chromium (SOLIDS)	5.00	4.72			94		80-120		
	%	%	%	%					
Batch number: 16337820001A	Sample number(s): 8721669								
Moisture	89.5	89.45			100		99-101		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/kg	MS Spike Added ug/kg	MS Conc ug/kg	MSD Spike Added ug/kg	MSD Conc ug/kg	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: B163421AA	Sample number(s): 8721669 UNSPK: P719335									
Acetone	N.D.	141.24	207.5			147		39-150		
Acrylonitrile	N.D.	94.16	118.21			126*		66-120		

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Quality Control Summary

Client Name: Eurofins QC Laboratories
Reported: 12/22/2016 14:05

Group Number: 1739018

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/kg	MS Spike Added ug/kg	MS Conc ug/kg	MSD Spike Added ug/kg	MSD Conc ug/kg	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Benzene	N.D.	18.83	18.04			96		80-120		
Bromodichloromethane	N.D.	18.83	16.63			88		75-120		
Bromoform	N.D.	18.83	12.72			68		57-127		
Bromomethane	N.D.	18.83	19.65			104		21-165		
2-Butanone	N.D.	141.24	129.72			92		54-129		
Carbon Tetrachloride	N.D.	18.83	17.48			93		69-130		
Chlorobenzene	N.D.	18.83	13.96			74*		80-120		
Chloroform	N.D.	18.83	19.59			104		80-120		
Chloromethane	N.D.	18.83	25.37			135*		56-120		
Dibromochloromethane	N.D.	18.83	14.9			79		77-120		
1,2-Dichlorobenzene	N.D.	18.83	13.74			73*		80-120		
1,3-Dichlorobenzene	N.D.	18.83	11.92			63*		80-120		
1,4-Dichlorobenzene	N.D.	18.83	12.4			66*		80-120		
1,1-Dichloroethane	N.D.	18.83	20.51			109		77-120		
1,2-Dichloroethane	N.D.	18.83	21.91			116		70-133		
1,1-Dichloroethene	N.D.	18.83	21.78			116		73-129		
cis-1,2-Dichloroethene	N.D.	18.83	18.35			97		80-120		
trans-1,2-Dichloroethene	N.D.	18.83	20.66			110		80-125		
1,2-Dichloropropane	N.D.	18.83	18.73			99		76-120		
cis-1,3-Dichloropropene	N.D.	18.83	15.77			84		74-120		
trans-1,3-Dichloropropene	N.D.	18.83	15.43			82		76-120		
Ethylbenzene	N.D.	18.83	12.46			66*		80-120		
4-Methyl-2-pentanone	N.D.	94.16	97.24			103		48-136		
Methylene Chloride	N.D.	18.83	21			111		76-122		
Styrene	N.D.	18.83	12.71			68*		76-120		
1,1,1,2-Tetrachloroethane	N.D.	18.83	14.72			78		75-120		
1,1,2,2-Tetrachloroethane	N.D.	18.83	14.88			79		67-121		
Tetrachloroethene	N.D.	18.83	18.83			100		78-120		
Toluene	N.D.	18.83	15.05			80		80-120		
1,2,4-Trichlorobenzene	N.D.	18.83	11.42			61*		63-121		
1,1,1-Trichloroethane	N.D.	18.83	16.68			89		66-128		
1,1,2-Trichloroethane	N.D.	18.83	16.84			89		80-120		
Trichloroethene	N.D.	18.83	16.55			88		80-120		
Vinyl Chloride	N.D.	18.83	23.63			125*		59-120		
Xylene (Total)	N.D.	56.5	38.2			68*		80-120		
	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg					
Batch number: 16337SLN026	Sample number(s): 8721669 UNSPK: P720165									
Acenaphthene	8943.15	1642.58	5603.98	1651.25	3783.72	-202 (2)	-311 (2)	83-116	39*	30
Anthracene	9583.73	1642.58	4311.69	1651.25	3628.83	-320 (2)	-360 (2)	82-118	17	30
Benzo(a)anthracene	1977.83	1642.58	2242.87	1651.25	2191.12	16*	13*	76-119	2	30
Benzo(a)pyrene	1016.21	1642.58	2110.91	1651.25	1874.31	67*	52*	85-117	12	30
Benzo(b)fluoranthene	912.56	1642.58	2176.54	1651.25	2378.3	77*	89	79-121	9	30
Benzo(k)fluoranthene	381.74	1642.58	1897.14	1651.25	1751.65	92	83	79-120	8	30

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Quality Control Summary

Client Name: Eurofins QC Laboratories
Group Number: 1739018
Reported: 12/22/2016 14:05

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/kg	MS Spike Added ug/kg	MS Conc ug/kg	MSD Spike Added ug/kg	MSD Conc ug/kg	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Benzyl alcohol	N.D.	1642.58	N.D.	1651.25	N.D.	0*	0*	64-119	0	30
Butylbenzylphthalate	N.D.	1642.58	N.D.	1651.25	N.D.	0*	0*	80-118	0	30
Di-n-butylphthalate	N.D.	1642.58	N.D.	1651.25	N.D.	0*	0*	84-120	0	30
4-Chloro-3-methylphenol	N.D.	1642.58	3897.44	1651.25	3225.17	237*	195*	74-132	19	30
4-Chloroaniline	N.D.	1642.58	N.D.	1651.25	N.D.	0*	0*	10-100	0	30
bis(2-Chloroethyl)ether	N.D.	1642.58	N.D.	1651.25	1893.46	0*	115	77-115	200*	30
bis(2-Chloroisopropyl)ether	N.D.	1642.58	N.D.	1651.25	1857.66	0*	113	62-127	200*	30
2-Chlorophenol	N.D.	1642.58	1757.72	1651.25	1773.71	107	107	85-123	1	30
Chrysene	5905.24	1642.58	4417.94	1651.25	3069.88	-90*	-171*	80-121	36*	30
Dibenz(a,h)anthracene	382.93	1642.58	2053.58	1651.25	1939.3	102	94	81-123	6	30
3,3'-Dichlorobenzidine	N.D.	1642.58	N.D.	1651.25	N.D.	0*	0*	10-116	0	30
2,4-Dichlorophenol	N.D.	1642.58	4427.1	1651.25	3053.57	270*	185*	86-125	37*	30
Diethylphthalate	N.D.	1642.58	N.D.	1651.25	N.D.	0*	0*	81-118	0	30
2,4-Dimethylphenol	N.D.	1642.58	1996.71	1651.25	1686.72	122*	102	73-117	17	30
Dimethylphthalate	N.D.	1642.58	N.D.	1651.25	N.D.	0*	0*	82-113	0	30
2,4-Dinitrophenol	N.D.	3285.15	N.D.	3302.51	N.D.	0*	0*	16-132	0	30
bis(2-Ethylhexyl)phthalate	N.D.	1642.58	N.D.	1651.25	N.D.	0*	0*	81-121	0	30
Fluoranthene	3059.23	1642.58	2941.16	1651.25	2271.43	-6*	-47*	81-117	26	30
Fluorene	17070.9	1642.58	8032.98	1651.25	5455.55	-549 (2)	-702 (2)	86-118	38*	30
Hexachlorobenzene	N.D.	1642.58	1682.52	1651.25	1936.33	102	117*	79-116	14	30
Hexachlorobutadiene	N.D.	1642.58	1866.69	1651.25	1883.36	114	114	72-120	1	30
Hexachlorocyclopentadiene	N.D.	3285.15	N.D.	3302.51	N.D.	0*	0*	57-142	0	30
Hexachloroethane	N.D.	1642.58	N.D.	1651.25	N.D.	0*	0*	78-114	0	30
Indeno(1,2,3-cd)pyrene	N.D.	1642.58	2011.14	1651.25	1971.83	122*	119*	75-118	2	30
Isophorone	N.D.	1642.58	4652.3	1651.25	3232.69	283*	196*	77-118	36*	30
2-Methylphenol	N.D.	1642.58	2715.74	1651.25	2471.66	165*	150*	80-133	9	30
4-Methylphenol	N.D.	1642.58	1804.5	1651.25	1985.11	110	120	73-125	10	30
Naphthalene	15027.34	1642.58	9353.22	1651.25	7515.95	-344 (2)	-454 (2)	82-112	22	30
Nitrobenzene	N.D.	1642.58	13639.91	1651.25	N.D.	830*	0*	70-122	200*	30
N-Nitroso-di-n-propylamine	N.D.	1642.58	N.D.	1651.25	4767.5	0*	289*	67-121	200*	30
N-Nitrosodiphenylamine	N.D.	1642.58	15492.48	1651.25	8354.56	943*	506*	83-118	60*	30
Di-n-octylphthalate	N.D.	1642.58	N.D.	1651.25	N.D.	0*	0*	80-140	0	30
Pentachlorophenol	N.D.	1642.58	N.D.	1651.25	N.D.	0*	0*	63-128	0	30
Phenol	N.D.	1642.58	2037.94	1651.25	1798.18	124*	109	73-122	13	30
Pyrene	9300.76	1642.58	4230.13	1651.25	3328.43	-308 (2)	-361 (2)	80-120	24	30
2,4,5-Trichlorophenol	N.D.	1642.58	4493.92	1651.25	2760.34	274*	167*	86-123	48*	30
2,4,6-Trichlorophenol	N.D.	1642.58	3733.05	1651.25	2385.8	227*	144*	81-123	44*	30
	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg					
Batch number: 163410013A	Sample number(s): 8721669 UNSPK: P727347									
Aldrin	N.D.	3.38	2.88	3.36	2.70	85	80	60-117	6	50
Gamma BHC - Lindane	N.D.	3.30	3.08	3.28	2.88	93	88	47-140	7	50
p,p-DDD	N.D.	6.54	6.54	6.50	6.09	100	94	69-138	7	50

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Eurofins QC Laboratories
Reported: 12/22/2016 14:05

Group Number: 1739018

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc	MS Spike Added	MS Conc	MSD Spike Added	MSD Conc	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg					
p,p-DDE	0.698	6.74	6.76	6.70	6.35	90	84	68-146	6	50
p,p-DDT	N.D.	6.54	6.37	6.50	5.95	97	92	67-135	7	50
Dieldrin	0.508	6.54	5.69	6.50	5.27	79	73	63-126	8	50
Endosulfan I	N.D.	3.30	2.83	3.28	2.63	86	80	62-119	7	50
Endosulfan II	N.D.	6.71	5.74	6.67	5.34	86	80	65-126	7	50
Endrin	N.D.	6.61	5.91	6.57	5.49	89	83	65-125	8	50
Heptachlor	N.D.	3.30	2.89	3.28	2.72	87	83	66-118	6	50
Methoxychlor	N.D.	32.8	33.79	32.6	30.71	103	94	65-131	10	50
Batch number: 163410014A	Sample number(s): 8721669 UNSPK: P716867									
PCB-1016	N.D.	166	155.97	167	158.7	94	95	76-121	2	50
PCB-1260	N.D.	166	157.1	166	158.27	95	95	79-130	1	50
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 163370637003	Sample number(s): 8721669 UNSPK: 8721669									
Antimony	0.771	37.04	31.38	42.02	37.22	83	87	75-125	17	20
Arsenic	1.57	11.11	11.81	12.61	13.68	92	96	75-125	15	20
Barium	30.25	148.15	166.19	168.07	199.29	92	101	75-125	18	20
Beryllium	0.276	3.70	3.90	4.20	4.45	98	99	75-125	13	20
Cadmium	0.0739	3.70	3.49	4.20	4.08	92	95	75-125	16	20
Chromium	9.79	14.81	26.92	16.81	27.75	116	107	75-125	3	20
Copper	8.78	18.52	35.31	21.01	28.46	143*	94	75-125	22*	20
Lead	4.55	11.11	14.1	12.61	15.85	86	90	75-125	12	20
Nickel	7.30	37.04	43.96	42.02	47.21	99	95	75-125	7	20
Selenium	1.53	11.11	12.2	12.61	13.25	96	93	75-125	8	20
Silver	N.D.	3.70	3.61	4.20	4.21	97	100	75-125	15	20
Thallium	1.87	11.11	12.74	12.61	13.94	98	96	75-125	9	20
Vanadium	19.93	37.04	62.49	42.02	61.92	115	100	75-125	1	20
Zinc	15.17	37.04	56.64	42.02	57.33	112	100	75-125	1	20
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16337102201A	Sample number(s): 8721669 UNSPK: P716866									
Total Cyanide (solid)	N.D.	5.05	5.20			103		41-145		
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16352042501A	Sample number(s): 8721669 UNSPK: P739841									
Hexavalent Chromium (SOLIDS)	141.44	39.8	177.89			92		75-125		

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
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Quality Control Summary

Client Name: Eurofins QC Laboratories
Reported: 12/22/2016 14:05

Group Number: 1739018

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc	DUP Conc	DUP RPD	DUP RPD Max
	mg/kg	mg/kg		
Batch number: 163370637003	Sample number(s): 8721669 BKG: 8721669			
Antimony	0.771	N.D.	200* (1)	20
Arsenic	1.57	2.30	38* (1)	20
Barium	30.25	24.11	23*	20
Beryllium	0.276	0.303	9 (1)	20
Cadmium	0.0739	0.0538	32* (1)	20
Chromium	9.79	10.16	4 (1)	20
Copper	8.78	7.35	18 (1)	20
Lead	4.55	4.57	0 (1)	20
Nickel	7.30	7.69	5 (1)	20
Selenium	1.53	1.61	5 (1)	20
Silver	N.D.	N.D.	0 (1)	20
Thallium	1.87	1.75	7 (1)	20
Vanadium	19.93	17.58	12	20
Zinc	15.17	16.65	9 (1)	20
	mg/kg	mg/kg		
Batch number: 16337102201A	Sample number(s): 8721669 BKG: P716866			
Total Cyanide (solid)	N.D.	N.D.	0 (1)	20
	mg/kg	mg/kg		
Batch number: 16352042501A	Sample number(s): 8721669 BKG: P739841			
Hexavalent Chromium (SOLIDS)	141.44	140.48	1	20
	%	%		
Batch number: 16337820001A	Sample number(s): 8721669 BKG: P721821			
Moisture	79.32	78.8	1	5

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: VOCs- Solid by 8260B
Batch number: B163421AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8721669	101	98	99	96
Blank	100	101	97	99
LCS	100	102	99	100
LCSD	101	100	99	100
MS	103	101	100	100
Limits:	50-141	54-135	52-141	50-131

*- Outside of specification
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P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Eurofins QC Laboratories
Reported: 12/22/2016 14:05

Group Number: 1739018

Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TCL 8270 (microwave)
Batch number: 16337SLN026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
8721669	96	91	90	101	102	113
Blank	94	91	103	89	84	98
LCS	104	98	102	92	91	99
MS	113	99	98	246*	108	128
MSD	113	99	99	165*	108	118
Limits:	58-122	57-126	28-141	54-123	63-117	49-129

Analysis Name: Pesticides in Soil (microwave)
Batch number: 163410013A

	Tetrachloro-m-xylene	Decachlorobiphenyl
8721669	85	94
Blank	90	104
LCS	89	99
MS	87	98
MSD	82	99
Limits:	26-145	39-152

Analysis Name: PCBs 8082A/3546
Batch number: 163410014A

	Tetrachloro-m-xylene	Decachlorobiphenyl
8721669	112	97
Blank	111	103
LCS	113	111
MS	104	100
MSD	108	98
Limits:	53-140	45-143

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
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P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

QC LABORATORIES
1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

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CHAIN OF CUSTODY

Page 1 of 1

Lab LIMS No: L1665481

LAB USE ONLY:

Ascorbic/HCl Vials # HCl Vials
$Na_2S_2O_3$
NaOH/Zn acetate pH
HNO_3 pH
H_2SO_4 pH
NaOH pH
2 Unpreserved
HCl pH
Temp/control (ID#)

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

Client/Acct. No. VILLAGE OF RIDGEWOOD
Address 131 N MAPLE AVE
City/State/Zip RIDGEWOOD NJ 07450
Phone/Fax 201-670-5577
Client Contact YAGNESH VYAS

Bill to/Report to: (if different)
Sampling Site Address: (if different)
P.O. No.
QC Contact

LAB USE ONLY

PROJECT / FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Number of Containers: Total	H_2SO_4	HCl	$Na_2S_2O_3$	HNO_3	NaOH	ZnAc	Unpres	Bact
SOIL / DIRT SAMPLE	11-28-16	0700	X		SO	2							X	

ANALYSIS REQUESTED

PLEASE TEST FOR ALL PARAMETERS LISTED ON ATTACHED SHEETS

Field pH, Temp (C or F), DO, Cl_2, S, Cond. etc.

Field Parameters Analyzed By:
Sig:
Date/Time:

SAMPLED BY: (Name/Company)

Verbal/fax data due: ___/___/___
Hardcopy due: ___/___/___

Report Format: ☒ Standard ☐ Forms
☒ Standard + QC ☐ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

	DATE	TIME		DATE	TIME
RELINQUISHED BY SAMPLER 1	11-28-16	0900	RECEIVED BY 1	11-29-16	0900
RELINQUISHED BY 2	11-29-16	1530	RECEIVED BY 2 Cooler #160	11-29-16	1530
RELINQUISHED BY 3 Cooler 160	11/29/16	22:00	RECEIVED BY 3	11/29/16	22:00
RELINQUISHED BY 4	DATE	TIME	RECEIVED BY 4	DATE	TIME
RELINQUISHED BY 5	DATE	TIME	RECEIVED BY 5	113016	530

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER ___

Custody Seal Number

COMMENTS:
EMAIL ADDRESS -
YVYAS@RIDGEWOOD.NJ.NET
4.1°C/AT/USA/1600

Hazardous: yes / no

For example to aid completion, see reverse side.

FINAL REPORT

G-1739018

Site Remediation Program

Soil Cleanup Criteria (mg/kg)

Table Last Revised: 12 May 1999 to correct the impact to ground water criterion for bis(2-chloroethyl) ether. Please note that this table is for reference purpose and cases with Remedial Action Workplans approved prior to the May 7, 2012 amendments of the Remediation Standards at N.J.A.C. 7:26D.

This listing represents the combination of Tables 3-2 and 7-1 from the Department of Environmental Protection and Energy's February 3, 1992 proposed rule entitled Cleanup Standards for Contaminated Sites, N.J.A.C. 7:26D, as corrected based upon errors identified by the Department during or subsequent to the comment period as well as new toxicological or other information obtained since the rule proposal. Please refer to the respective footnotes for more detail. Notwithstanding, where the following criteria are based on human health impacts, the Department shall still consider environmental impacts when establishing site specific cleanup criteria. This along with other site-specific factors including background conditions may result in site specific cleanup criteria which differ from the criteria listed below. Therefore, this list shall not be assumed to represent approval by the Department of any remedial action or to represent the Department's opinion that a site requires remediation.

Alternate Formats

This document is available in several other formats:

- Adobe Acrobat [pdf 45 Kb]
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Note: Material bracketed [thus] is deleted and material underlined thus is added

Contaminant	CASRN	Residential Direct Contact Soil Cleanup Criteria (a) (b) (RDCSCC)	Non- Residential Direct Contact Soil Cleanup Criteria (a) (b) (NRDCSCC)	Impact to Ground water Soil Cleanup Criteria (b) (IGWSCC)
Acenaphthene	83-32-9	3400	10000(c)	100
Acetone (2-propanone)	67-64-1	1000(d)	1000(d)	100
Acrylonitrile	107-13-1	1	5	1
Aldrin	309-00-2	0.040	0.17	50
Anthracene	120-12-7	10000(c)	10000(c)	100
Antimony	7440-36-0	14	340	(h)
Arsenic	7440-38-2	20 (e)	20 (e)	(h)
Barium	7440-39-3	700	47000(n)	(h)
Benzene	71-43-2	3	13	1
Benzo(b)fluoranthene (3,4-Benzofluoranthene)	205-99-2	0.9	4	50
Benzo(a)anthracene (1,2-Benzanthracene)	56-55-3	0.9	4	500

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Benzo(a)pyrene (BaP)	50-32-8	0.66(f)	0.66(f)	100
Benzo(k)fluoranthene	207-08-9	0.9	4	500
Benzyl Alcohol	100-51-6	10000(c)	10000(c)	50
Beryllium	7440-41-7	[1(f)] 2 (e)	[1(f)] 2 (e)	(h)
Bis(2-chloroethyl) ether	111-44-4	0.66(f)	3	10
Bis(2-chloroisopropyl)ether	108-60-1	2300	10000(c)	10
Bis(2-ethylhexyl) phthalate	117-81-7	49	210	100
Bromodichloromethane (Dichlorobromomethane)	75-27-4	11	46	1
Bromoform	75-25-2	86	370	1
Bromomethane (Methyl bromide)	74-83-9	79	1000 (d)	1
2-Butanone (Methyl ethyl ketone) (MEK)	78-93-3	1000 (d)	1000 (d)	50
Butylbenzyl phthalate	85-68-7	1100	10000 (c)	100
Cadmium	7440-43-9	[1] 39	100	(h)
Carbon tetrachloride	56-23-5	2 (k)	4 (k)	1
4-Chloroaniline (*p*-Chloroaniline)	106-47-8	230	4200	(r)
Chlorobenzene	108-90-7	37	680	1
Chloroform	67-66-3	19 (k)	28 (k)	1
4-Chloro-3-methyl phenol (*p*-Chloro-*m*-cresol)	59-50-7	10000 (c)	10000 (c)	100
Chloromethane (Methyl chloride)	74-87-3	520	1000 (d)	10
2-Chlorophenol (*o*-Chlorophenol)	95-57-8	280	5200	10
Chromium – hexavalent (VI)	18540-29-9	240; 270 (g); (i)	6100; 20 (g); (i)	(h)
Chromium – trivalent (III)	16065-83-1	120,000	(j)	(l)
Chrysene	218-01-9	9	40	500
Copper	7440-50-8	600 (m)	600 (m)	(h)
Cyanide	57-12-5	1100	21000 (o)	(h)
4,4'-DDD (p,p'-TDE)	72-54-8	3	12	50
4,4'-DDE (p,p'-DDX)	72-55-9	2	9	50
4,4'-DDT	50-29-3	2	9	500
Dibenz(a,h)anthracene	53-70-3	0.66 (f)	0.66 (f)	100
Dibromochloromethane (Chlorodibromomethane)	124-48-1	110	1000 (d)	1
Di-n-butyl phthalate	84-74-2	5700	10000 (c)	100
Di-n-octyl phthalate	117-84-0	1100	10000 (c)	100
1,2-Dichlorobenzene (*o*-Dichlorobenzene)	95-50-1	5100	10000 (c)	50
1,3-Dichlorobenzene (*m*-Dichlorobenzene)	541-73-1	5100	10000 (c)	100
1,4-Dichlorobenzene (*p*-Dichlorobenzene)	106-46-7	570	10000 (c)	100
3,3'-Dichlorobenzidine	91-94-1	2	6	100
1,1-Dichloroethane	75-34-3	570	1000 (d)	10

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1,2-Dichloroethane	107-06-2	6	24	1
1,1-Dichloroethene	75-35-4	8	150	10
1,2-Dichloroethene (trans)	156-60-5	1000 (d)	1000 (d)	50
1,2-Dichloroethene (cis)	156-59-2	79	1000 (d)	1
2,4-Dichlorophenol	120-83-2	170	3100	10
1,2-Dichloropropane	78-87-5	10	43	(r)
1,3-Dichloropropene(cis and trans)	542-75-6	4	5 (k)	1
Dieldrin	60-57-1	0.042	0.18	50
Diethyl phthalate	84-66-2	10000 (c)	10000 (c)	50
2,4-Dimethyl phenol	105-67-9	1100	10000 (c)	10
Dimethyl phthalate	131-11-3	10000 (c)	10000 (c)	50
2,4-Dinitrophenol	51-28-5	110	2100	10
Dinitrotoluene(2,4-/2,6-mixture)	25321-14-6	1 (l)	4 (l)	10 (l)
Endosulfan	115-29-7	340	6200	50
Endrin	72-20-8	17	310	50
Ethylbenzene	100-41-4	1000 (d)	1000 (d)	100
Fluoranthene	206-44-0	2300	10000 (c)	100
Fluorene	86-73-7	2300	10000 (c)	100
Heptachlor	76-44-8	0.15	0.65	50
Hexachlorobenzene	118-74-1	0.66 (f)	2	100
Hexachlorobutadiene	87-68-3	1	21	100
Hexachlorocyclopentadiene	77-47-4	400	7300	100
Hexachloroethane	67-72-1	6	100	100
Indeno(1,2,3-cd)pyrene	193-39-5	0.9	4	500
Isophorone	78-59-1	1100	10000 (c)	50
Lead	7439-92-1	400 (p)	600 (q)	(h)
Lindane (gamma BHC) (gamma HCH)	58-89-9	0.52	2.2	50
2-Methylphenol (*o*-creosol)	95-48-7	2800	10000 (c)	(r)
4-Methylphenol (*p*-creosol)	106-44-5	2800	10000 (c)	(r)
Methoxychlor	72-43-5	280	5200	50
Mercury	7439-97-6	14	270	(h)
4-Methyl-2-pentanone (MIBK)	108-10-1	1000 (d)	1000 (d)	50
Methylene chloride (Dichloromethane)	75-09-2	49	210	1
Naphthalene	91-20-3	230	4200	100
Nickel	7440-02-0	250	2400 (k) (n)	(h)
Nitrobenzene	98-95-3	28	520	10
N-Nitrosodiphenylamine	86-30-6	140	600	100
N-Nitrosodi-n-propylamine	621-64-7	0.66 (f)	0.66 (f)	10
PCBs (Polychlorinated biphenyls)	1336-36-3	0.49	2	50
Pentachlorophenol	87-86-5	6	24	100
Phenol	108-95-2	10000 (c)	10000 (c)	50

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Pyrene	129-00-0	1700	10000 (c)	100
Selenium	7782-49-2	63	3100 (n)	(h)
Silver	7440-22-4	110	4100 (n)	(h)
Styrene	100-42-5	23	97	100
1,1,1,2-Tetrachloroethane	630-20-6	170	310	1
1,1,2,2-Tetrachloroethane	79-34-5	34	70 (k)	1
Tetrachloroethene (Tetrachloroethylene) (PCE)	127-18-4	4 (k)	6 (k)	1
Thallium	7440-28-0	2 (f)	2 (f)	(h)
Toluene	108-88-3	1000 (d)	1000 (d)	500
Toxaphene	8001-35-2	0.10 (k)	0.2 (k)	50
1,2,4-Trichlorobenzene	120-82-1	68	1200	100
1,1,1-Trichloroethane	71-55-6	210	1000 (d)	50
1,1,2-Trichloroethane	79-00-5	22	420	1
Trichloroethene (Trichloroethylene) (TCE)	79-01-6	23	54 (k)	1
2,4,5-Trichlorophenol	95-95-4	5600	10000 (c)	50
2,4,6-Trichlorophenol	88-06-2	62	270	10
Vanadium	7440-62-2	370	7100 (n)	(h)
Vinyl chloride	75-01-4	2	7	10
Xylenes (Total)	1330-20-7	410	1000 (d)	[10] 67 (s)
Zinc	7440-66-6	1500 (m)	1500 (m)	(h)

Footnotes:

(a) Criteria are health based using an incidental ingestion exposure pathway except where noted below.

(b) Criteria are subject to change based on site specific factors (e.g., aquifer classification, soil type, natural background, environmental impacts, etc.).

(c) Health based criterion exceeds the 10,000 mg/kg maximum for total organic contaminants.

(d) Health based criterion exceeds the 1000 mg/kg maximum for total volatile organic contaminants.

(e) Cleanup standard proposal was based on natural background.

(f) Health based criterion is lower than analytical limits; cleanup criterion based on practical quantitation level.

(g) Criterion based on the inhalation exposure pathway.

(h) The impact to ground water values for inorganic constituents will be developed based upon site specific chemical and physical parameters.

(i) Site specific determination required for SCC for the allergic contact dermatitis exposure pathway.

(j) Contaminant not regulated for this exposure pathway.

(k) Criteria based on inhalation exposure pathway, which yielded a more stringent criterion than the incidental ingestion exposure pathway.

(l) No criterion derived for this contaminant.

(m) Criterion based on ecological (phytotoxicity) effects.

(n) Level of the human health based criterion is such that evaluation for potential environmental impacts on a site by site basis is recommended.

(o) Level of the criterion is such that evaluation for potential acute exposure hazard is recommended.

(p)

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Criterion based on the USEPA Integrated Exposure Uptake Biokinetic (IEUBK) model utilizing the default parameters. The concentration is considered to protect 95% of target population (children) at a blood lead level of 10 ug/dl.

(q) Criteria were derived from a model developed by the Society for Environmental Geochemistry and Health (SEGH) and were designed to be protective for adults in the workplace.

(r) Insufficient information available to calculate impact to ground water criteria.

(s) Criterion based on new drinking water standard.

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1-877-WARNDEP / 1-877-927-6337

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Department of Environmental Protection
P. O. Box 402
Trenton, NJ 08625-0402

Last Updated: September 29, 2015

eurofins | Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 169240

Group Number(s): 1759018

Client: Eurofins QC

Delivery and Receipt Information

Delivery Method:	EQCL Drop Off	Arrival Timestamp:	11/30/2016 5:30
Number of Packages:	1	Number of Projects:	6

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	0
Paperwork Enclosed:	Yes	Air Quality Samples Present:	No
Samples Intact:	Yes		
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Joseph Huber (7831) at 06:25 on 11/30/2016

Samples Chilled Details

Thermometer Types: *DT = Digital (Temp. Bottle)* *IR = Infrared (Surface Temp)* *All Temperatures in °C.*

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT146	2.2	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425

T : 717-656-2300
F : 717-656-2681
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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	**mg**	milligram(s)
C	degrees Celsius	**mL**	milliliter(s)
cfu	colony forming units	**MPN**	Most Probable Number
CP Units	cobalt-chloroplatinate units	**N.D.**	none detected
F	degrees Fahrenheit	**ng**	nanogram(s)
g	gram(s)	**NTU**	nephelometric turbidity units
IU	International Units	**pg/L**	picogram/liter
kg	kilogram(s)	**RL**	Reporting Limit
L	liter(s)	**TNTC**	Too Numerous To Count
lb.	pound(s)	**µg**	microgram(s)
m3	cubic meter(s)	**µL**	microliter(s)
meq	milliequivalents	**umhos/cm**	micromhos/cm

<	less than
>	greater than
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference...
W - The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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Additional Data Qualifiers

Qualifier	Definition
B	Detection in the Blank
Q0	LCS/LCSD Low
Q1	LCS/LCSD High
Q4	MS/MSD Out of Range
Q7	LCS/LCSD RPD
Q8	DUP RPD
Q9	MS/MSD RPD

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report



Technical Report for

WSP USA

Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

31401544.002 11.00

SGS Job Number: JD18939

Sampling Date: 01/12/21

Report to:

WSP USA

szois@lbgnj.com

ATTN: Spiros Zois

Total number of pages in report: 172

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Victoria Pushkova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

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Sample Summary

WSP USA

Job No: JD18939

Ridgewood Water, 579 Prospect Street, Glen Rock, NJ
Project No: 31401544.002 11.00

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
JD18939-1	01/12/21	10:15	SZ	01/12/21	SO	Soil	S-10R
JD18939-2	01/12/21	10:30	SZ	01/12/21	SO	Soil	S-15R
JD18939-3	01/12/21	10:45	SZ	01/12/21	SO	Soil	S-18R

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	WSP USA	**Job No:**	JD18939
Site:	Ridgewood Water, 579 Prospect Street, Glen Rock, NJ	**Report Date**	1/19/2021 4:12:39 PM

On 01/12/2021, 3 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 3.2 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD18939 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Semi-volatiles By Method SW846 8270E

Matrix: SO **Batch ID:** OP31540

- All samples were extracted within the recommended method holding time.
- Sample(s) JD18961-8MS, JD18961-8MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for 2,4-Dinitrophenol, 4,6-Dinitro-o-cresol, Hexachlorocyclopentadiene are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 2,4-Dinitrophenol, 4,6-Dinitro-o-cresol, Hexachlorocyclopentadiene, Butyl benzyl phthalate, Di-n-butyl phthalate are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Recovery(s) for Phenanthrene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- RPD(s) for MS/MSD for bis(2-Ethylhexyl)phthalate, Butyl benzyl phthalate, Di-n-butyl phthalate are outside control limits. Outside control limits due to matrix interference.
- JD18939-2 for 1,4-Dioxane: Associated CCV outside of control limits high, sample was ND.
- JD18939-1 for 1,4-Dioxane: Associated CCV outside of control limits high, sample was ND.
- JD18939-1 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- Matrix Spike Duplicate Recovery(s) for Benzo(a)anthracene, Chrysene, Fluoranthene, Phenanthrene, Pyrene are outside control limits.Outside control limits due to high level in sample relative to spike amount.
- JD18939-2 for 2-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD18939-2 for Di-n-octyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD18939-2 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD18939-3 for 1,4-Dioxane: Associated CCV outside of control limits high, sample was ND.
- JD18939-3 for 2-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD18939-3 for Di-n-octyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD18939-3 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD18939-1 for 2-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD18939-1 for Di-n-octyl phthalate: Associated CCV outside of control limits high, sample was ND.

General Chemistry By Method SM2540 G 18TH ED MOD

Matrix: SO **Batch ID:** GN14813

- Sample(s) JD18877-7DUP were used as the QC samples for Solids, Percent.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JD18939
Account: WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ
Collected: 01/12/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD18939-1	**S-10R**					
Acenaphthylene		46.5	37	19	ug/kg	SW846 8270E
Anthracene		45.6	37	23	ug/kg	SW846 8270E
Benzo(a)anthracene		218	37	10	ug/kg	SW846 8270E
Benzo(a)pyrene		213	37	17	ug/kg	SW846 8270E
Benzo(b)fluoranthene		260	37	16	ug/kg	SW846 8270E
Benzo(g,h,i)perylene		131	37	19	ug/kg	SW846 8270E
Benzo(k)fluoranthene		92.1	37	17	ug/kg	SW846 8270E
Carbazole		10.5 J	74	5.4	ug/kg	SW846 8270E
Chrysene		224	37	12	ug/kg	SW846 8270E
Dibenzo(a,h)anthracene		35.2 J	37	16	ug/kg	SW846 8270E
Fluoranthene		333	37	17	ug/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene		135	37	17	ug/kg	SW846 8270E
Naphthalene		17.6 J	37	10	ug/kg	SW846 8270E
Phenanthrene		130	37	12	ug/kg	SW846 8270E
Pyrene		381	37	12	ug/kg	SW846 8270E
Total TIC, Semi-Volatile		160 J			ug/kg	
JD18939-2	**S-15R**					
Acenaphthene		102	41	14	ug/kg	SW846 8270E
Acenaphthylene		62.6	41	21	ug/kg	SW846 8270E
Anthracene		278	41	25	ug/kg	SW846 8270E
Benzo(a)anthracene		750	41	12	ug/kg	SW846 8270E
Benzo(a)pyrene		744	41	19	ug/kg	SW846 8270E
Benzo(b)fluoranthene		986	41	18	ug/kg	SW846 8270E
Benzo(g,h,i)perylene		511	41	21	ug/kg	SW846 8270E
Benzo(k)fluoranthene		302	41	19	ug/kg	SW846 8270E
1,1'-Biphenyl		11.2 J	83	5.7	ug/kg	SW846 8270E
Carbazole		105	83	6.0	ug/kg	SW846 8270E
Chrysene		853	41	13	ug/kg	SW846 8270E
Dibenzo(a,h)anthracene		132	41	18	ug/kg	SW846 8270E
Dibenzofuran		58.5 J	83	17	ug/kg	SW846 8270E
bis(2-Ethylhexyl)phthalate		96.9	83	9.7	ug/kg	SW846 8270E
Fluoranthene		1620	41	18	ug/kg	SW846 8270E
Fluorene		130	41	19	ug/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene		523	41	19	ug/kg	SW846 8270E
2-Methylnaphthalene		35.5 J	41	9.3	ug/kg	SW846 8270E
Naphthalene		26.8 J	41	12	ug/kg	SW846 8270E
Phenanthrene		981	41	14	ug/kg	SW846 8270E
Pyrene		1480	41	13	ug/kg	SW846 8270E
Total TIC, Semi-Volatile		47560 J			ug/kg	

Summary of Hits

Job Number: JD18939
Account: WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ
Collected: 01/12/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD18939-3	**S-18R**					
Acenaphthene		18.8 J	45	15	ug/kg	SW846 8270E
Acenaphthylene		65.7	45	23	ug/kg	SW846 8270E
Anthracene		187	45	27	ug/kg	SW846 8270E
Benzo(a)anthracene		873	45	13	ug/kg	SW846 8270E
Benzo(a)pyrene		852	45	20	ug/kg	SW846 8270E
Benzo(b)fluoranthene		1040	45	20	ug/kg	SW846 8270E
Benzo(g,h,i)perylene		598	45	22	ug/kg	SW846 8270E
Benzo(k)fluoranthene		307	45	21	ug/kg	SW846 8270E
Carbazole		54.2 J	89	6.5	ug/kg	SW846 8270E
Chrysene		852	45	14	ug/kg	SW846 8270E
Dibenzo(a,h)anthracene		155	45	20	ug/kg	SW846 8270E
Fluoranthene		1580	45	20	ug/kg	SW846 8270E
Fluorene		26.0 J	45	21	ug/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene		597	45	21	ug/kg	SW846 8270E
Phenanthrene		533	45	15	ug/kg	SW846 8270E
Pyrene		1570	45	14	ug/kg	SW846 8270E
Total TIC, Semi-Volatile		5030 J			ug/kg	

Sample Results

Report of Analysis

SGS LabLink@1090954 10:26 21-Jan-2021

Report of Analysis

Client Sample ID:	S-10R		
Lab Sample ID:	JD18939-1	**Date Sampled:**	01/12/21
Matrix:	SO - Soil	**Date Received:**	01/12/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	87.3
Project:	Ridgewood Water, 579 Prospect Street, Glen Rock, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P98996.D	1	01/15/21 20:00	HSS	01/15/21 10:15	OP31540	E2P4412
Run #2							

	Initial Weight	Final Volume
Run #1	30.9 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	74	18	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	23	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	32	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	66	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	190	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	190	40	ug/kg	
95-48-7	2-Methylphenol	ND	74	24	ug/kg	
	3&4-Methylphenol	ND	74	30	ug/kg	
88-75-5	2-Nitrophenol	ND	190	25	ug/kg	
100-02-7	4-Nitrophenol	ND	370	99	ug/kg	
87-86-5	Pentachlorophenol	ND	150	35	ug/kg	
108-95-2	Phenol	ND	74	19	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	190	25	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	190	28	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	22	ug/kg	
83-32-9	Acenaphthene	ND	37	13	ug/kg	
208-96-8	Acenaphthylene	46.5	37	19	ug/kg	
98-86-2	Acetophenone	ND	190	8.0	ug/kg	
120-12-7	Anthracene	45.6	37	23	ug/kg	
1912-24-9	Atrazine	ND	74	16	ug/kg	
56-55-3	Benzo(a)anthracene	218	37	10	ug/kg	
50-32-8	Benzo(a)pyrene	213	37	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	260	37	16	ug/kg	
191-24-2	Benzo(g,h,i)perylene	131	37	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	92.1	37	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	74	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	74	9.0	ug/kg	
92-52-4	1,1'-Biphenyl	ND	74	5.1	ug/kg	
100-52-7	Benzaldehyde	ND	190	9.2	ug/kg	
91-58-7	2-Chloronaphthalene	ND	74	8.8	ug/kg	
106-47-8	4-Chloroaniline	ND	190	13	ug/kg	
86-74-8	Carbazole	10.5	74	5.4	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S-10R		
Lab Sample ID:	JD18939-1	**Date Sampled:**	01/12/21
Matrix:	SO - Soil	**Date Received:**	01/12/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	87.3
Project:	Ridgewood Water, 579 Prospect Street, Glen Rock, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	74	15	ug/kg	
218-01-9	Chrysene	224	37	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	74	7.9	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	74	16	ug/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	74	13	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	74	12	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	37	11	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	37	19	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	74	31	ug/kg	
123-91-1	1,4-Dioxane [a]	ND	37	25	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	35.2	37	16	ug/kg	J
132-64-9	Dibenzofuran	ND	74	15	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	74	6.0	ug/kg	
117-84-0	Di-n-octyl phthalate [a]	ND	74	9.2	ug/kg	
84-66-2	Diethyl phthalate	ND	74	7.9	ug/kg	
131-11-3	Dimethyl phthalate	ND	74	6.6	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	74	8.7	ug/kg	
206-44-0	Fluoranthene	333	37	17	ug/kg	
86-73-7	Fluorene	ND	37	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	74	9.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	37	15	ug/kg	
77-47-4	Hexachlorocyclopentadiene [b]	ND	370	15	ug/kg	
67-72-1	Hexachloroethane	ND	190	18	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	135	37	17	ug/kg	
78-59-1	Isophorone	ND	74	7.9	ug/kg	
91-57-6	2-Methylnaphthalene	ND	37	8.4	ug/kg	
88-74-4	2-Nitroaniline [a]	ND	190	8.7	ug/kg	
99-09-2	3-Nitroaniline	ND	190	9.3	ug/kg	
100-01-6	4-Nitroaniline	ND	190	9.6	ug/kg	
91-20-3	Naphthalene	17.6	37	10	ug/kg	J
98-95-3	Nitrobenzene	ND	74	14	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	74	11	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	14	ug/kg	
85-01-8	Phenanthrene	130	37	12	ug/kg	
129-00-0	Pyrene	381	37	12	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	9.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	52%		7-101%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S-10R		
Lab Sample ID:	JD18939-1	**Date Sampled:**	01/12/21
Matrix:	SO - Soil	**Date Received:**	01/12/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	87.3
Project:	Ridgewood Water, 579 Prospect Street, Glen Rock, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	50%		12-101%
118-79-6	2,4,6-Tribromophenol	64%		10-127%
4165-60-0	Nitrobenzene-d5	69%		15-114%
321-60-8	2-Fluorobiphenyl	58%		22-104%
1718-51-0	Terphenyl-d14	75%		23-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	System artifact/aldol-condensation	3.22	190	ug/kg	J
	Unknown PAH substance	15.58	160	ug/kg	J
	Total TIC, Semi-Volatile		160	ug/kg	J

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1090954 10:26 21-Jan-2021

Report of Analysis

Client Sample ID: S-15R
Lab Sample ID: JD18939-2
Matrix: SO - Soil
Method: SW846 8270E SW846 3546
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Date Sampled: 01/12/21
Date Received: 01/12/21
Percent Solids: 78.8

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P99000.D	1	01/15/21 21:44	HSS	01/15/21 10:15	OP31540	E2P4412
Run #2							

	Initial Weight	Final Volume
Run #1	30.7 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	83	20	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	210	25	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	210	35	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	210	74	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	210	160	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	210	44	ug/kg	
95-48-7	2-Methylphenol	ND	83	26	ug/kg	
	3&4-Methylphenol	ND	83	34	ug/kg	
88-75-5	2-Nitrophenol	ND	210	27	ug/kg	
100-02-7	4-Nitrophenol	ND	410	110	ug/kg	
87-86-5	Pentachlorophenol	ND	170	39	ug/kg	
108-95-2	Phenol	ND	83	22	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	210	27	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	210	31	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	210	25	ug/kg	
83-32-9	Acenaphthene	102	41	14	ug/kg	
208-96-8	Acenaphthylene	62.6	41	21	ug/kg	
98-86-2	Acetophenone	ND	210	8.9	ug/kg	
120-12-7	Anthracene	278	41	25	ug/kg	
1912-24-9	Atrazine	ND	83	18	ug/kg	
56-55-3	Benzo(a)anthracene	750	41	12	ug/kg	
50-32-8	Benzo(a)pyrene	744	41	19	ug/kg	
205-99-2	Benzo(b)fluoranthene	986	41	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	511	41	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	302	41	19	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	83	16	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	83	10	ug/kg	
92-52-4	1,1'-Biphenyl	11.2	83	5.7	ug/kg	J
100-52-7	Benzaldehyde	ND	210	10	ug/kg	
91-58-7	2-Chloronaphthalene	ND	83	9.8	ug/kg	
106-47-8	4-Chloroaniline	ND	210	15	ug/kg	
86-74-8	Carbazole	105	83	6.0	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S-15R		
Lab Sample ID:	JD18939-2	**Date Sampled:**	01/12/21
Matrix:	SO - Soil	**Date Received:**	01/12/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	78.8
Project:	Ridgewood Water, 579 Prospect Street, Glen Rock, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	83	16	ug/kg	
218-01-9	Chrysene	853	41	13	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	83	8.8	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	83	18	ug/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	83	15	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	83	13	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	41	13	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	41	21	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	83	34	ug/kg	
123-91-1	1,4-Dioxane [a]	ND	41	27	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	132	41	18	ug/kg	
132-64-9	Dibenzofuran	58.5	83	17	ug/kg	J
84-74-2	Di-n-butyl phthalate	ND	83	6.7	ug/kg	
117-84-0	Di-n-octyl phthalate [a]	ND	83	10	ug/kg	
84-66-2	Diethyl phthalate	ND	83	8.8	ug/kg	
131-11-3	Dimethyl phthalate	ND	83	7.4	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	96.9	83	9.7	ug/kg	
206-44-0	Fluoranthene	1620	41	18	ug/kg	
86-73-7	Fluorene	130	41	19	ug/kg	
118-74-1	Hexachlorobenzene	ND	83	10	ug/kg	
87-68-3	Hexachlorobutadiene	ND	41	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene [b]	ND	410	16	ug/kg	
67-72-1	Hexachloroethane	ND	210	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	523	41	19	ug/kg	
78-59-1	Isophorone	ND	83	8.8	ug/kg	
91-57-6	2-Methylnaphthalene	35.5	41	9.3	ug/kg	J
88-74-4	2-Nitroaniline [a]	ND	210	9.8	ug/kg	
99-09-2	3-Nitroaniline	ND	210	10	ug/kg	
100-01-6	4-Nitroaniline	ND	210	11	ug/kg	
91-20-3	Naphthalene	26.8	41	12	ug/kg	J
98-95-3	Nitrobenzene	ND	83	16	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	83	12	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	210	15	ug/kg	
85-01-8	Phenanthrene	981	41	14	ug/kg	
129-00-0	Pyrene	1480	41	13	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	210	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%		7-101%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: S-15R
Lab Sample ID: JD18939-2
Matrix: SO - Soil
Method: SW846 8270E SW846 3546
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Date Sampled: 01/12/21
Date Received: 01/12/21
Percent Solids: 78.8

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	47%		12-101%
118-79-6	2,4,6-Tribromophenol	54%		10-127%
4165-60-0	Nitrobenzene-d5	58%		15-114%
321-60-8	2-Fluorobiphenyl	49%		22-104%
1718-51-0	Terphenyl-d14	57%		23-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Bisnorabieta-pentaene	11.48	650	ug/kg	J
	Alkane	14.68	1200	ug/kg	J
	Unknown	15.13	580	ug/kg	J
	Unknown	15.34	350	ug/kg	J
	Alkane	15.62	4100	ug/kg	J
	Unknown	16.06	490	ug/kg	J
	Unknown	16.26	680	ug/kg	J
	Unknown	16.46	880	ug/kg	J
	Alkane	16.50	3100	ug/kg	J
	Unknown	16.56	1500	ug/kg	J
	Unknown	16.83	450	ug/kg	J
	Unknown	16.93	460	ug/kg	J
83-48-7	Stigmasterol	17.36	620	ug/kg	JN
	Alkane	17.43	440	ug/kg	J
	Sitosterol	17.69	5800	ug/kg	J
	Unknown	17.85	1200	ug/kg	J
	Unknown	17.96	3400	ug/kg	J
	Unknown	18.04	3100	ug/kg	J
	Unknown	18.17	450	ug/kg	J
	Unknown	18.25	5000	ug/kg	J
	Unknown	18.34	1800	ug/kg	J
	Stigmastenone	18.46	2000	ug/kg	J
	Unknown	18.68	1200	ug/kg	J
	Unknown	18.77	710	ug/kg	J
	Unknown	19.19	7400	ug/kg	J
	Total TIC, Semi-Volatile		47560	ug/kg	J

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1090954 10:26 21-Jan-2021

Report of Analysis

Client Sample ID: S-18R
Lab Sample ID: JD18939-3
Matrix: SO - Soil
Method: SW846 8270E SW846 3546
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Date Sampled: 01/12/21
Date Received: 01/12/21
Percent Solids: 70.8

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P99001.D	1	01/15/21 22:09	HSS	01/15/21 10:15	OP31540	E2P4412
Run #2							

	Initial Weight	Final Volume
Run #1	31.6 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	89	22	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	220	27	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	220	38	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	220	80	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	220	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	220	48	ug/kg	
95-48-7	2-Methylphenol	ND	89	29	ug/kg	
	3&4-Methylphenol	ND	89	37	ug/kg	
88-75-5	2-Nitrophenol	ND	220	30	ug/kg	
100-02-7	4-Nitrophenol	ND	450	120	ug/kg	
87-86-5	Pentachlorophenol	ND	180	42	ug/kg	
108-95-2	Phenol	ND	89	23	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	220	30	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	220	33	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	220	27	ug/kg	
83-32-9	Acenaphthene	18.8	45	15	ug/kg	J
208-96-8	Acenaphthylene	65.7	45	23	ug/kg	
98-86-2	Acetophenone	ND	220	9.6	ug/kg	
120-12-7	Anthracene	187	45	27	ug/kg	
1912-24-9	Atrazine	ND	89	19	ug/kg	
56-55-3	Benzo(a)anthracene	873	45	13	ug/kg	
50-32-8	Benzo(a)pyrene	852	45	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	1040	45	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	598	45	22	ug/kg	
207-08-9	Benzo(k)fluoranthene	307	45	21	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	89	17	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	89	11	ug/kg	
92-52-4	1,1'-Biphenyl	ND	89	6.1	ug/kg	
100-52-7	Benzaldehyde	ND	220	11	ug/kg	
91-58-7	2-Chloronaphthalene	ND	89	11	ug/kg	
106-47-8	4-Chloroaniline	ND	220	16	ug/kg	
86-74-8	Carbazole	54.2	89	6.5	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S-18R		
Lab Sample ID:	JD18939-3	**Date Sampled:**	01/12/21
Matrix:	SO - Soil	**Date Received:**	01/12/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	70.8
Project:	Ridgewood Water, 579 Prospect Street, Glen Rock, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	89	18	ug/kg	
218-01-9	Chrysene	852	45	14	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	89	9.6	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	89	19	ug/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	89	16	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	89	14	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	45	14	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	45	22	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	89	37	ug/kg	
123-91-1	1,4-Dioxane [a]	ND	45	30	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	155	45	20	ug/kg	
132-64-9	Dibenzofuran	ND	89	18	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	89	7.3	ug/kg	
117-84-0	Di-n-octyl phthalate [a]	ND	89	11	ug/kg	
84-66-2	Diethyl phthalate	ND	89	9.5	ug/kg	
131-11-3	Dimethyl phthalate	ND	89	8.0	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	89	10	ug/kg	
206-44-0	Fluoranthene	1580	45	20	ug/kg	
86-73-7	Fluorene	26.0	45	21	ug/kg	J
118-74-1	Hexachlorobenzene	ND	89	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	45	18	ug/kg	
77-47-4	Hexachlorocyclopentadiene [b]	ND	450	18	ug/kg	
67-72-1	Hexachloroethane	ND	220	22	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	597	45	21	ug/kg	
78-59-1	Isophorone	ND	89	9.6	ug/kg	
91-57-6	2-Methylnaphthalene	ND	45	10	ug/kg	
88-74-4	2-Nitroaniline [a]	ND	220	11	ug/kg	
99-09-2	3-Nitroaniline	ND	220	11	ug/kg	
100-01-6	4-Nitroaniline	ND	220	12	ug/kg	
91-20-3	Naphthalene	ND	45	13	ug/kg	
98-95-3	Nitrobenzene	ND	89	17	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	89	13	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	220	16	ug/kg	
85-01-8	Phenanthrene	533	45	15	ug/kg	
129-00-0	Pyrene	1570	45	14	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	220	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	46%		7-101%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S-18R		
Lab Sample ID:	JD18939-3	**Date Sampled:**	01/12/21
Matrix:	SO - Soil	**Date Received:**	01/12/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	70.8
Project:	Ridgewood Water, 579 Prospect Street, Glen Rock, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	47%		12-101%
118-79-6	2,4,6-Tribromophenol	58%		10-127%
4165-60-0	Nitrobenzene-d5	60%		15-114%
321-60-8	2-Fluorobiphenyl	51%		22-104%
1718-51-0	Terphenyl-d14	63%		23-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	System artifact/aldol-condensation	3.22	730	ug/kg	J
	Unknown	4.00	190	ug/kg	J
	Cyclopentaphenanthrenone	11.24	190	ug/kg	J
	Unknown PAH substance	15.61	1000	ug/kg	J
	Unknown	16.26	280	ug/kg	J
	Unknown	16.46	250	ug/kg	J
	Alkane	16.50	490	ug/kg	J
	Unknown	16.83	200	ug/kg	J
	Unknown	17.67	940	ug/kg	J
	Unknown	18.02	340	ug/kg	J
	Unknown	18.45	340	ug/kg	J
	Unknown	19.15	810	ug/kg	J
	Total TIC, Semi-Volatile		5030	ug/kg	J

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

GW
SO

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

Page 1 of 1

FED-EX Tracking #: | Bottle Order Control #:
SGS Quote #: | SGS Job #: JD 18939

Client / Reporting Information

Company Name: WSP USA
Street Address: 600 E Crescent Ave
City: USR State: NJ Zip: 07456
Project Contact: Jonas.Holliss@wsp.com E-mail:
Phone #: 201-739-2367
Sampler(s) Name(s): Spiros Zois Phone #: 201-324-6594

Project Information

Project Name: Ridgewood Water Prospect Street Soil
Street: Prospect St
City: Glen Rock State: NJ
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (If different from Report to)
Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis

ABB270TCL20+

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB - Field Blank
EB-Equipment Blank
RB - Rinse Blank
TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	LAB USE ONLY
1	S-10R		1/12/21	1015	SZ	G	GW	1					1				X
2	S-15R			1030													B10
3	S-18R			1045													

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [X] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via Labilink * Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [X] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [ ] CT RCP Criteria
- [ ] State Forms
- [X] EDD Format
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

INITIAL ASSESSMENT 313-DP
LABEL VERIFICATION

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by:	Date / Time:	Received By:
1		1/12/21 1400	1
2		1/12/21 1706	2
3			3
4			4
5			5

Custody Seal # | Intact | Not Intact | Preserved where applicable | Absent | Therm. ID: | On Ice | Cooler Temp. °C: X 3.7 CP

EHSA-QAC-0023-02-FORM-Dayton - Standard COC.xlsx

5.1 5

JD18939: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: JD18939 **Client:** WSP USA **Project:** RIDGEWOOD WATER

Date / Time Received: 1/12/2021 5:06:00 PM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (3.7);

Cooler Temps (Corrected) °C: Cooler 1: (3.2);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 212820 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

JD18939: Chain of Custody
Page 2 of 2

Internal Sample Tracking Chronicle

WSP USA

Job No: JD18939

Ridgewood Water, 579 Prospect Street, Glen Rock, NJ
Project No: 31401544.002 11.00

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD18939-1	Collected: 12-JAN-21 10:15 By: SZ		Received: 12-JAN-21 By: JP			
S-10R						
JD18939-1	SM2540 G 18TH ED MOD.	13-JAN-21 16:37	BG			SOL104
JD18939-1	SW846 8270E	15-JAN-21 20:00	HSS	15-JAN-21	BB	AB8270TCL20+
JD18939-2	Collected: 12-JAN-21 10:30 By: SZ		Received: 12-JAN-21 By: JP			
S-15R						
JD18939-2	SM2540 G 18TH ED MOD.	13-JAN-21 16:37	BG			SOL104
JD18939-2	SW846 8270E	15-JAN-21 21:44	HSS	15-JAN-21	BB	AB8270TCL20+
JD18939-3	Collected: 12-JAN-21 10:45 By: SZ		Received: 12-JAN-21 By: JP			
S-18R						
JD18939-3	SM2540 G 18TH ED MOD.	13-JAN-21 16:37	BG			SOL104
JD18939-3	SW846 8270E	15-JAN-21 22:09	HSS	15-JAN-21	BB	AB8270TCL20+

SGS Internal Chain of Custody

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ
Received: 01/12/21

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD18939-1.1	Manish Kewalramani	Secured Storage	01/12/21 21:12	Return to Storage
JD18939-1.1	Secured Storage	Benjamin Gaines	01/13/21 09:19	Retrieve from Storage
JD18939-1.1	Benjamin Gaines	Secured Staging Area	01/13/21 09:19	Return to Storage
JD18939-1.1	Secured Staging Area	Benjamin Gaines	01/13/21 09:20	Retrieve from Storage
JD18939-1.1	Benjamin Gaines	Secured Storage	01/13/21 13:04	Return to Storage
JD18939-1.1	Tyler Strong	Secured Staging Area	01/14/21 19:20	Return to Storage
Stage				
JD18939-1.1	Secured Staging Area	Chatiyah Canaday	01/15/21 08:26	Retrieve from Storage
JD18939-1.1	Chatiyah Canaday	Secured Storage	01/15/21 14:39	Return to Storage
JD18939-1.1.1	Chatiyah Canaday	Organics Prep	01/15/21 08:42	Extract from JD18939-1.1
JD18939-1.1.1	Organics Prep	Brian Bass	01/15/21 14:23	Extract from JD18939-1.1
JD18939-1.1.1	Brian Bass	Extract Storage	01/15/21 14:23	Return to Storage
JD18939-1.1.1	Extract Storage	Henny Salim	01/15/21 15:06	Retrieve from Storage
JD18939-1.1.1	Henny Salim	GCMS2P	01/15/21 15:06	Load on Instrument
JD18939-1.1.1	GCMS2P	Henny Salim	01/19/21 17:00	Unload from Instrument
JD18939-1.1.1	Henny Salim	Extract Freezer	01/19/21 17:00	Return to Storage
JD18939-2.1	Manish Kewalramani	Secured Storage	01/12/21 21:12	Return to Storage
JD18939-2.1	Secured Storage	Benjamin Gaines	01/13/21 09:19	Retrieve from Storage
JD18939-2.1	Benjamin Gaines	Secured Staging Area	01/13/21 09:19	Return to Storage
JD18939-2.1	Secured Staging Area	Benjamin Gaines	01/13/21 09:20	Retrieve from Storage
JD18939-2.1	Benjamin Gaines	Secured Storage	01/13/21 13:04	Return to Storage
JD18939-2.1	Tyler Strong	Secured Staging Area	01/14/21 19:20	Return to Storage
Stage				
JD18939-2.1	Secured Staging Area	Chatiyah Canaday	01/15/21 08:26	Retrieve from Storage
JD18939-2.1	Chatiyah Canaday	Secured Storage	01/15/21 14:39	Return to Storage
JD18939-2.1.1	Chatiyah Canaday	Organics Prep	01/15/21 08:42	Extract from JD18939-2.1
JD18939-2.1.1	Organics Prep	Brian Bass	01/15/21 14:23	Extract from JD18939-2.1
JD18939-2.1.1	Brian Bass	Extract Storage	01/15/21 14:23	Return to Storage
JD18939-2.1.1	Extract Storage	Henny Salim	01/15/21 15:06	Retrieve from Storage
JD18939-2.1.1	Henny Salim	GCMS2P	01/15/21 15:06	Load on Instrument
JD18939-2.1.1	GCMS2P	Henny Salim	01/19/21 17:00	Unload from Instrument
JD18939-2.1.1	Henny Salim	Extract Freezer	01/19/21 17:00	Return to Storage
JD18939-3.1	Manish Kewalramani	Secured Storage	01/12/21 21:12	Return to Storage
JD18939-3.1	Secured Storage	Benjamin Gaines	01/13/21 09:19	Retrieve from Storage
JD18939-3.1	Benjamin Gaines	Secured Staging Area	01/13/21 09:19	Return to Storage
JD18939-3.1	Secured Staging Area	Benjamin Gaines	01/13/21 09:20	Retrieve from Storage
JD18939-3.1	Benjamin Gaines	Secured Storage	01/13/21 13:04	Return to Storage
JD18939-3.1	Tyler Strong	Secured Staging Area	01/14/21 19:20	Return to Storage
Stage				
JD18939-3.1	Secured Staging Area	Chatiyah Canaday	01/15/21 08:26	Retrieve from Storage

SGS Internal Chain of Custody

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ
Received: 01/12/21

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD18939-3.1	Chatiyah Canaday	Secured Storage	01/15/21 14:39	Return to Storage
JD18939-3.1.1	Chatiyah Canaday	Organics Prep	01/15/21 08:42	Extract from JD18939-3.1
JD18939-3.1.1	Organics Prep	Brian Bass	01/15/21 14:23	Extract from JD18939-3.1
JD18939-3.1.1	Brian Bass	Extract Storage	01/15/21 14:23	Return to Storage
JD18939-3.1.1	Extract Storage	Henny Salim	01/15/21 15:06	Retrieve from Storage
JD18939-3.1.1	Henny Salim	GCMS2P	01/15/21 15:06	Load on Instrument
JD18939-3.1.1	GCMS2P	Henny Salim	01/19/21 17:00	Unload from Instrument
JD18939-3.1.1	Henny Salim	Extract Freezer	01/19/21 17:00	Return to Storage

MS Semi-volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

Method Blank Summary

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31540-MB1	2P98985.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD18939-1, JD18939-2, JD18939-3

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	67	16	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	20	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	28	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	59	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	170	130	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	170	36	ug/kg	
95-48-7	2-Methylphenol	ND	67	21	ug/kg	
	3&4-Methylphenol	ND	67	27	ug/kg	
88-75-5	2-Nitrophenol	ND	170	22	ug/kg	
100-02-7	4-Nitrophenol	ND	330	89	ug/kg	
87-86-5	Pentachlorophenol	ND	130	31	ug/kg	
108-95-2	Phenol	ND	67	17	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	22	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	25	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	20	ug/kg	
83-32-9	Acenaphthene	ND	33	11	ug/kg	
208-96-8	Acenaphthylene	ND	33	17	ug/kg	
98-86-2	Acetophenone	ND	170	7.2	ug/kg	
120-12-7	Anthracene	ND	33	20	ug/kg	
1912-24-9	Atrazine	ND	67	14	ug/kg	
56-55-3	Benzo(a)anthracene	ND	33	9.4	ug/kg	
50-32-8	Benzo(a)pyrene	ND	33	15	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	33	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	33	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	33	16	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	67	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	67	8.1	ug/kg	
92-52-4	1,1'-Biphenyl	ND	67	4.6	ug/kg	
100-52-7	Benzaldehyde	ND	170	8.3	ug/kg	
91-58-7	2-Chloronaphthalene	ND	67	7.9	ug/kg	
106-47-8	4-Chloroaniline	ND	170	12	ug/kg	
86-74-8	Carbazole	ND	67	4.8	ug/kg	
105-60-2	Caprolactam	ND	67	13	ug/kg	
218-01-9	Chrysene	ND	33	10	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	67	7.1	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	67	14	ug/kg	

Method Blank Summary

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31540-MB1	2P98985.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD18939-1, JD18939-2, JD18939-3

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	67	12	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	67	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	33	10	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	33	17	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	67	28	ug/kg	
123-91-1	1,4-Dioxane	ND	33	22	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	33	15	ug/kg	
132-64-9	Dibenzofuran	ND	67	14	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	67	5.4	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	67	8.3	ug/kg	
84-66-2	Diethyl phthalate	ND	67	7.1	ug/kg	
131-11-3	Dimethyl phthalate	ND	67	5.9	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	67	7.8	ug/kg	
206-44-0	Fluoranthene	ND	33	15	ug/kg	
86-73-7	Fluorene	ND	33	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	67	8.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	33	13	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	330	13	ug/kg	
67-72-1	Hexachloroethane	ND	170	16	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33	16	ug/kg	
78-59-1	Isophorone	ND	67	7.1	ug/kg	
91-57-6	2-Methylnaphthalene	ND	33	7.5	ug/kg	
88-74-4	2-Nitroaniline	ND	170	7.9	ug/kg	
99-09-2	3-Nitroaniline	ND	170	8.3	ug/kg	
100-01-6	4-Nitroaniline	ND	170	8.6	ug/kg	
91-20-3	Naphthalene	ND	33	9.4	ug/kg	
98-95-3	Nitrobenzene	ND	67	13	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	67	9.6	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	12	ug/kg	
85-01-8	Phenanthrene	ND	33	11	ug/kg	
129-00-0	Pyrene	ND	33	11	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	8.5	ug/kg	

Method Blank Summary

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31540-MB1	2P98985.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD18939-1, JD18939-2, JD18939-3

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	71%	7-101%
4165-62-2	Phenol-d5	71%	12-101%
118-79-6	2,4,6-Tribromophenol	79%	10-127%
4165-60-0	Nitrobenzene-d5	90%	15-114%
321-60-8	2-Fluorobiphenyl	85%	22-104%
1718-51-0	Terphenyl-d14	84%	23-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	System artifact	1.90	340	ug/kg	J
	System artifact/aldol-condensation	3.21	210	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31540-BS1	2P98987.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412
OP31540-BSD	2P98988.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD18939-1, JD18939-2, JD18939-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	1670	1020	61	1030	62	1	26-121/16
59-50-7	4-Chloro-3-methyl phenol	1670	1130	68	1120	67	1	26-138/17
120-83-2	2,4-Dichlorophenol	1670	1100	66	1110	67	1	26-130/19
105-67-9	2,4-Dimethylphenol	1670	1190	71	1200	72	1	28-144/18
51-28-5	2,4-Dinitrophenol	3330	2390	72	2340	70	2	31-146/21
534-52-1	4,6-Dinitro-o-cresol	1670	1090	65	1080	65	1	22-150/20
95-48-7	2-Methylphenol	1670	1020	61	1000	60	2	23-128/20
	3&4-Methylphenol	1670	982	59	960	58	2	24-133/25
88-75-5	2-Nitrophenol	1670	1060	64	1070	64	1	29-137/20
100-02-7	4-Nitrophenol	1670	1390	83	1350	81	3	21-144/23
87-86-5	Pentachlorophenol	1670	973	58	1050	63	8	24-152/22
108-95-2	Phenol	1670	1060	64	1050	63	1	40-101/22
58-90-2	2,3,4,6-Tetrachlorophenol	1670	1210	73	1210	73	0	30-136/22
95-95-4	2,4,5-Trichlorophenol	1670	1230	74	1220	73	1	26-137/20
88-06-2	2,4,6-Trichlorophenol	1670	1170	70	1180	71	1	28-137/21
83-32-9	Acenaphthene	1670	1150	69	1160	70	1	24-129/16
208-96-8	Acenaphthylene	1670	1120	67	1110	67	1	25-130/17
98-86-2	Acetophenone	1670	1140	68	1140	68	0	44-100/24
120-12-7	Anthracene	1670	1120	67	1140	68	2	28-131/18
1912-24-9	Atrazine	1670	1300	78	1270	76	2	17-165/19
56-55-3	Benzo(a)anthracene	1670	1100	66	1090	65	1	30-130/20
50-32-8	Benzo(a)pyrene	1670	1160	70	1180	71	2	27-139/20
205-99-2	Benzo(b)fluoranthene	1670	1170	70	1260	76	7	32-133/21
191-24-2	Benzo(g,h,i)perylene	1670	1120	67	1140	68	2	24-141/23
207-08-9	Benzo(k)fluoranthene	1670	1210	73	1130	68	7	26-135/21
101-55-3	4-Bromophenyl phenyl ether	1670	1090	65	1110	67	2	25-137/19
85-68-7	Butyl benzyl phthalate	1670	1120	67	1110	67	1	28-142/23
92-52-4	1,1'-Biphenyl	1670	1210	73	1220	73	1	22-129/17
100-52-7	Benzaldehyde	1670	982	59	928	56	6	4-116/23
91-58-7	2-Chloronaphthalene	1670	1170	70	1180	71	1	22-126/20
106-47-8	4-Chloroaniline	1670	557	33	601	36	8	8-85/59
86-74-8	Carbazole	1670	1150	69	1140	68	1	29-135/18
105-60-2	Caprolactam	1670	1080	65	1030	62	5	21-138/20
218-01-9	Chrysene	1670	1030	62	1020	61	1	29-127/20
111-91-1	bis(2-Chloroethoxy)methane	1670	1010	61	1030	62	2	23-128/19
111-44-4	bis(2-Chloroethyl)ether	1670	992	60	1030	62	4	28-121/23

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31540-BS1	2P98987.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412
OP31540-BSD	2P98988.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD18939-1, JD18939-2, JD18939-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
108-60-1	2,2'-Oxybis(1-chloropropane)	1670	1120	67	1110	67	1	25-147/18
7005-72-3	4-Chlorophenyl phenyl ether	1670	1190	71	1200	72	1	24-133/20
121-14-2	2,4-Dinitrotoluene	1670	1240	74	1230	74	1	31-135/20
606-20-2	2,6-Dinitrotoluene	1670	1230	74	1210	73	2	31-138/19
91-94-1	3,3'-Dichlorobenzidine	3330	1620	49	1800	54	11	16-110/41
123-91-1	1,4-Dioxane	1670	965	58	983	59	2	6-81/34
53-70-3	Dibenzo(a,h)anthracene	1670	1110	67	1130	68	2	24-135/23
132-64-9	Dibenzofuran	1670	1240	74	1240	74	0	26-133/17
84-74-2	Di-n-butyl phthalate	1670	1190	71	1210	73	2	27-141/24
117-84-0	Di-n-octyl phthalate	1670	1270	76	1310	79	3	28-143/21
84-66-2	Diethyl phthalate	1670	1280	77	1280	77	0	26-135/25
131-11-3	Dimethyl phthalate	1670	1200	72	1190	71	1	26-130/19
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1170	70	1160	70	1	44-122/21
206-44-0	Fluoranthene	1670	1190	71	1180	71	1	31-134/23
86-73-7	Fluorene	1670	1230	74	1230	74	0	26-136/18
118-74-1	Hexachlorobenzene	1670	1140	68	1160	70	2	22-136/19
87-68-3	Hexachlorobutadiene	1670	1290	77	1340	80	4	18-137/18
77-47-4	Hexachlorocyclopentadiene	3330	2170	65	2280	68	5	22-131/21
67-72-1	Hexachloroethane	1670	1090	65	1090	65	0	19-121/25
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1230	74	1240	74	1	26-137/25
78-59-1	Isophorone	1670	1150	69	1160	70	1	29-128/25
91-57-6	2-Methylnaphthalene	1670	1260	76	1290	77	2	28-132/16
88-74-4	2-Nitroaniline	1670	1580	95	1570	94	1	16-154/18
99-09-2	3-Nitroaniline	1670	894	54	947	57	6	20-105/62
100-01-6	4-Nitroaniline	1670	1220	73	1180	71	3	30-134/21
91-20-3	Naphthalene	1670	1150	69	1160	70	1	26-127/19
98-95-3	Nitrobenzene	1670	1260	76	1280	77	2	21-130/19
621-64-7	N-Nitroso-di-n-propylamine	1670	1130	68	1130	68	0	27-124/26
86-30-6	N-Nitrosodiphenylamine	1670	1060	64	1050	63	1	27-133/19
85-01-8	Phenanthrene	1670	1130	68	1140	68	1	26-131/19
129-00-0	Pyrene	1670	1060	64	1050	63	1	30-131/24
95-94-3	1,2,4,5-Tetrachlorobenzene	1670	1230	74	1270	76	3	8-129/20

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31540-BS1	2P98987.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412
OP31540-BSD	2P98988.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD18939-1, JD18939-2, JD18939-3

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	65%	65%	7-101%
4165-62-2	Phenol-d5	67%	66%	12-101%
118-79-6	2,4,6-Tribromophenol	69%	69%	10-127%
4165-60-0	Nitrobenzene-d5	82%	84%	15-114%
321-60-8	2-Fluorobiphenyl	76%	78%	22-104%
1718-51-0	Terphenyl-d14	70%	70%	23-121%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31540-MS	2P99002.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412
OP31540-MSD	2P99003.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412
JD18961-8	2P99004.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412
JD18961-8	2P99009.D	10	01/19/21	KLS	01/15/21	OP31540	E2P4413

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD18939-1, JD18939-2, JD18939-3

CAS No.	Compound	JD18961-8 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	ND		1840	765	41	1860	946	51	21	10-129/65
59-50-7	4-Chloro-3-methyl phenol	ND		1840	860	47	1860	1100	59	24	10-147/63
120-83-2	2,4-Dichlorophenol	ND		1840	763	41	1860	1060	57	33	10-140/64
105-67-9	2,4-Dimethylphenol	ND		1840	902	49	1860	1120	60	22	10-151/64
51-28-5	2,4-Dinitrophenol	ND		3690	296	8* [a]	3710	277	7* [a]	7	10-127/71
534-52-1	4,6-Dinitro-o-cresol	ND		1840	144	8* [a]	1860	133	7* [a]	8	10-148/77
95-48-7	2-Methylphenol	ND		1840	791	43	1860	986	53	22	10-136/62
	3&4-Methylphenol	ND		1840	787	43	1860	1010	54	25	10-137/63
88-75-5	2-Nitrophenol	ND		1840	757	41	1860	931	50	21	10-147/69
100-02-7	4-Nitrophenol	ND		1840	921	50	1860	935	50	2	10-157/64
87-86-5	Pentachlorophenol	ND		1840	729	40	1860	954	51	27	10-164/65
108-95-2	Phenol	ND		1840	827	45	1860	995	54	18	3-110/61
58-90-2	2,3,4,6-Tetrachlorophenol	ND		1840	799	43	1860	980	53	20	10-146/67
95-95-4	2,4,5-Trichlorophenol	ND		1840	764	41	1860	911	49	18	10-144/66
88-06-2	2,4,6-Trichlorophenol	ND		1840	747	41	1860	959	52	25	10-148/67
83-32-9	Acenaphthene	1570		1840	2440	47	1860	2890	71	17	10-145/63
208-96-8	Acenaphthylene	4550 [b]		1840	7190	54	1860	7850	89	9	10-144/59
98-86-2	Acetophenone	ND		1840	894	48	1860	1160	62	26	5-120/56
120-12-7	Anthracene	5570 [b]		1840	8980	47	1860	10100	107	12	10-153/66
1912-24-9	Atrazine	ND		1840	941	51	1860	1050	57	11	10-163/50
56-55-3	Benzo(a)anthracene	10400 [b]		1840	13600	38	1860	15900	162* [c]	16	10-157/71
50-32-8	Benzo(a)pyrene	9440 [b]		1840	11600	43	1860	12100	70	4	10-164/67
205-99-2	Benzo(b)fluoranthene	10100 [b]		1840	14100	11	1860	15100	65	7	10-154/69
191-24-2	Benzo(g,h,i)perylene	5470 [b]		1840	6160	98	1860	5460	60	12	10-156/64
207-08-9	Benzo(k)fluoranthene	3280 [b]		1840	2800	20	1860	3370	51	18	10-156/62
101-55-3	4-Bromophenyl phenyl ether	ND		1840	807	44	1860	954	51	17	10-145/57
85-68-7	Butyl benzyl phthalate	ND		1840	913	50	1860	142000	7651* [a]	197* [a]	10-151/57
92-52-4	1,1'-Biphenyl	379		1840	1220	46	1860	1410	56	14	10-140/53
100-52-7	Benzaldehyde	ND		1840	890	48	1860	1040	56	16	10-135/56
91-58-7	2-Chloronaphthalene	ND		1840	751	41	1860	906	49	19	10-134/58
106-47-8	4-Chloroaniline	ND		1840	391	21	1860	419	23	7	10-97/62
86-74-8	Carbazole	2150		1840	3160	55	1860	3740	86	17	10-145/53
105-60-2	Caprolactam	ND		1840	1050	57	1860	1330	72	24	10-156/53
218-01-9	Chrysene	10100 [b]		1840	12300	60	1860	14100	156* [c]	14	10-148/70
111-91-1	bis(2-Chloroethoxy)methane	ND		1840	762	41	1860	967	52	24	10-130/57
111-44-4	bis(2-Chloroethyl)ether	ND		1840	772	42	1860	921	50	18	10-125/60

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31540-MS	2P99002.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412
OP31540-MSD	2P99003.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412
JD18961-8	2P99004.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412
JD18961-8	2P99009.D	10	01/19/21	KLS	01/15/21	OP31540	E2P4413

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD18939-1, JD18939-2, JD18939-3

CAS No.	Compound	JD18961-8 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
108-60-1	2,2'-Oxybis(1-chloropropane)	ND		1840	871	47	1860	1100	59	23	10-151/58
7005-72-3	4-Chlorophenyl phenyl ether	ND		1840	819	44	1860	961	52	16	10-141/56
121-14-2	2,4-Dinitrotoluene	ND		1840	945	51	1860	1020	55	8	10-153/57
606-20-2	2,6-Dinitrotoluene	ND		1840	683	37	1860	835	45	20	10-147/59
91-94-1	3,3'-Dichlorobenzidine	ND		3690	794	22	3710	595	16	29	10-133/74
123-91-1	1,4-Dioxane	ND		1840	809	44	1860	798	43	1	10-81/57
53-70-3	Dibenzo(a,h)anthracene	1520		1840	2460	51	1860	2410	48	2	10-146/63
132-64-9	Dibenzofuran	1850		1840	2820	53	1860	3270	77	15	10-148/50
84-74-2	Di-n-butyl phthalate	ND		1840	806	44	1860	7720	416* [a]	162* [a]	10-152/59
117-84-0	Di-n-octyl phthalate	ND		1840	840	46	1860	1020	55	19	10-155/57
84-66-2	Diethyl phthalate	ND		1840	774	42	1860	928	50	18	10-145/56
131-11-3	Dimethyl phthalate	ND		1840	730	40	1860	902	49	21	10-138/56
117-81-7	bis(2-Ethylhexyl)phthalate	ND		1840	931	50	1860	1780	96	63* [a]	6-140/61
206-44-0	Fluoranthene	22800 [b]		1840	24700	81	1860	29400	334* [c]	17	10-171/80
86-73-7	Fluorene	5010 [b]		1840	7570	80	1860	8510	130	12	10-148/65
118-74-1	Hexachlorobenzene	ND		1840	801	43	1860	963	52	18	10-143/57
87-68-3	Hexachlorobutadiene	ND		1840	897	49	1860	1100	59	20	10-141/60
77-47-4	Hexachlorocyclopentadiene	ND		3690	29.6	1* [a]	3710	39.3	1* [a]	28	10-135/81
67-72-1	Hexachloroethane	ND		1840	514	28	1860	554	30	7	10-124/62
193-39-5	Indeno(1,2,3-cd)pyrene	5420 [b]		1840	6570	94	1860	6130	70	7	10-152/65
78-59-1	Isophorone	ND		1840	884	48	1860	1080	58	20	10-138/59
91-57-6	2-Methylnaphthalene	4030 [b]		1840	7000	84	1860	7840	128	11	10-150/51
88-74-4	2-Nitroaniline	ND		1840	1060	57	1860	1260	68	17	10-161/50
99-09-2	3-Nitroaniline	ND		1840	525	28	1860	551	30	5	10-126/54
100-01-6	4-Nitroaniline	ND		1840	613	33	1860	584	31	5	10-143/58
91-20-3	Naphthalene	4920 [b]		1840	7590	50	1860	8980	125	17	10-147/64
98-95-3	Nitrobenzene	ND		1840	945	51	1860	1100	59	15	10-143/58
621-64-7	N-Nitroso-di-n-propylamine	ND		1840	886	48	1860	1090	59	21	10-133/59
86-30-6	N-Nitrosodiphenylamine	ND		1840	1030	56	1860	1290	70	22	10-150/56
85-01-8	Phenanthrene	29300 [b]		1840	30000	195* [c]	1860	33900	404* [c]	12	10-162/81
129-00-0	Pyrene	24900 [b]		1840	28100	54	1860	34000	372* [c]	19	10-166/77
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		1840	734	40	1860	886	48	19	10-130/56

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31540-MS	2P99002.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412
OP31540-MSD	2P99003.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412
JD18961-8	2P99004.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412
JD18961-8	2P99009.D	10	01/19/21	KLS	01/15/21	OP31540	E2P4413

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD18939-1, JD18939-2, JD18939-3

CAS No.	Surrogate Recoveries	MS	MSD	JD18961-8	JD18961-8	Limits
367-12-4	2-Fluorophenol	57%	55%	54%	38%	7-101%
4165-62-2	Phenol-d5	58%	55%	53%	39%	12-101%
118-79-6	2,4,6-Tribromophenol	63%	61%	57%	43%	10-127%
4165-60-0	Nitrobenzene-d5	70%	65%	61%	50%	15-114%
321-60-8	2-Fluorobiphenyl	57%	54%	52%	46%	22-104%
1718-51-0	Terphenyl-d14	64%	65%	59%	46%	23-121%

(a) Outside control limits due to matrix interference.
(b) Result is from Run #2.
(c) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample: E2P4365-DFTPP
Lab File ID: 2P97989.D
Instrument ID: GCMS2P
Injection Date: 12/03/20
Injection Time: 16:26

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	172707	49.4		Pass
68	Less than 2.0% of mass 69	693	0.20	(0.34) [a]	Pass
69	Mass 69 relative abundance	202973	58.1		Pass
70	Less than 2.0% of mass 69	833	0.24	(0.41) [a]	Pass
127	40.0 - 60.0% of mass 198	188917	54.1		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	349431	100.0		Pass
199	5.0 - 9.0% of mass 198	23643	6.77		Pass
275	10.0 - 30.0% of mass 198	100072	28.6		Pass
365	1.0 - 100.0% of mass 198	14706	4.21		Pass
441	Present, but less than mass 443	55120	15.8	(89.7) [b]	Pass
442	40.0 - 100.0% of mass 198	321947	92.1		Pass
443	17.0 - 23.0% of mass 442	61429	17.6	(19.1) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E2P4365-IC4365	2P97990.D	12/03/20	16:46	00:20	Initial cal 1
E2P4365-IC4365	2P97991.D	12/03/20	17:14	00:48	Initial cal 2
E2P4365-IC4365	2P97992.D	12/03/20	17:40	01:14	Initial cal 5
E2P4365-IC4365	2P97993.D	12/03/20	18:07	01:41	Initial cal 10
E2P4365-IC4365	2P97994.D	12/03/20	18:35	02:09	Initial cal 25
E2P4365-ICC4365	2P97995.D	12/03/20	19:01	02:35	Initial cal 50
E2P4365-IC4365	2P97996.D	12/03/20	19:27	03:01	Initial cal 80
E2P4365-IC4365	2P97997.D	12/03/20	19:54	03:28	Initial cal 100
E2P4365-ICV4365	2P97998.D	12/03/20	20:20	03:54	Initial cal verification 50
E2P4365-ICV4365	2P97999.D	12/03/20	20:46	04:20	Initial cal verification 50
E2P4365-ICV4365	2P98000.D	12/03/20	21:12	04:46	Initial cal verification 50
E2P4365-ICV4365	2P98001.D	12/03/20	21:38	05:12	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample: E2P4366-DFTPP
Lab File ID: 2P98002.D
Instrument ID: GCMS2P
Injection Date: 12/03/20
Injection Time: 22:01

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	154226	50.4		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	184741	60.3		Pass
70	Less than 2.0% of mass 69	754	0.25	(0.41) [a]	Pass
127	40.0 - 60.0% of mass 198	162651	53.1		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	306176	100.0		Pass
199	5.0 - 9.0% of mass 198	20795	6.79		Pass
275	10.0 - 30.0% of mass 198	87875	28.7		Pass
365	1.0 - 100.0% of mass 198	12425	4.06		Pass
441	Present, but less than mass 443	45362	14.8	(89.1) [b]	Pass
442	40.0 - 100.0% of mass 198	256576	83.8		Pass
443	17.0 - 23.0% of mass 442	50887	16.6	(19.8) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E2P4366-IC4366	2P98003.D	12/03/20	22:13	00:12	Initial cal 100
E2P4366-IC4366	2P98004.D	12/03/20	22:39	00:38	Initial cal 80
E2P4366-ICC4366	2P98005.D	12/03/20	23:05	01:04	Initial cal 50
E2P4366-IC4366	2P98006.D	12/03/20	23:31	01:30	Initial cal 25
E2P4366-IC4366	2P98007.D	12/03/20	23:57	01:56	Initial cal 10
E2P4366-IC4366	2P98008.D	12/04/20	00:23	02:22	Initial cal 5
E2P4366-IC4366	2P98009.D	12/04/20	00:50	02:49	Initial cal 2
E2P4366-IC4366	2P98010.D	12/04/20	01:16	03:15	Initial cal 1

Instrument Performance Check (DFTPP)

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample: E2P4367-DFTPP
Lab File ID: 2P98012.D
Instrument ID: GCMS2P
Injection Date: 12/04/20
Injection Time: 02:05

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	144561	50.9		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	165703	58.3		Pass
70	Less than 2.0% of mass 69	707	0.25	(0.43) [a]	Pass
127	40.0 - 60.0% of mass 198	149694	52.7		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	284181	100.0		Pass
199	5.0 - 9.0% of mass 198	19068	6.71		Pass
275	10.0 - 30.0% of mass 198	80880	28.5		Pass
365	1.0 - 100.0% of mass 198	12363	4.35		Pass
441	Present, but less than mass 443	40991	14.4	(93.4) [b]	Pass
442	40.0 - 100.0% of mass 198	240517	84.6		Pass
443	17.0 - 23.0% of mass 442	43883	15.4	(18.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E2P4367-IC4367	2P98013.D	12/04/20	02:16	00:11	Initial cal 100
E2P4367-IC4367	2P98014.D	12/04/20	02:42	00:37	Initial cal 80
E2P4367-ICC4367	2P98015.D	12/04/20	03:08	01:03	Initial cal 50
E2P4367-IC4367	2P98016.D	12/04/20	03:34	01:29	Initial cal 25
E2P4367-IC4367	2P98017.D	12/04/20	04:00	01:55	Initial cal 10
E2P4367-IC4367	2P98018.D	12/04/20	04:26	02:21	Initial cal 5
E2P4367-IC4367	2P98019.D	12/04/20	04:53	02:48	Initial cal 2
E2P4367-IC4367	2P98020.D	12/04/20	05:19	03:14	Initial cal 1
E2P4367-ICV4367	2P98021.D	12/04/20	05:45	03:40	Initial cal verification 50
E2P4367-ICV4367	2P98022.D	12/04/20	06:11	04:06	Initial cal verification 50
E2P4367-ICV4366	2P98023A.D	12/04/20	06:37	04:32	Initial cal verification 50
E2P4367-ICV4367	2P98023.D	12/04/20	06:37	04:32	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample: E2P4412-DFTPP
Lab File ID: 2P98981.D
Instrument ID: GCMS2P
Injection Date: 01/15/21
Injection Time: 12:35

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	310076	52.2		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	363456	61.2		Pass
70	Less than 2.0% of mass 69	1554	0.26	(0.43) [a]	Pass
127	40.0 - 60.0% of mass 198	315594	53.1		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	594098	100.0		Pass
199	5.0 - 9.0% of mass 198	38546	6.49		Pass
275	10.0 - 30.0% of mass 198	162015	27.3		Pass
365	1.0 - 100.0% of mass 198	25614	4.31		Pass
441	Present, but less than mass 443	84918	14.3	(88.7) [b]	Pass
442	40.0 - 100.0% of mass 198	497237	83.7		Pass
443	17.0 - 23.0% of mass 442	95691	16.1	(19.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E2P4412-CC4365	2P98982.D	01/15/21	12:45	00:10	Continuing cal 25
E2P4412-CC4366	2P98983.D	01/15/21	13:11	00:36	Continuing cal 25
E2P4412-CC4367	2P98984.D	01/15/21	13:37	01:02	Continuing cal 25
OP31540-MB1	2P98985.D	01/15/21	14:46	02:11	Method Blank
OP31540-BS1	2P98987.D	01/15/21	15:41	03:06	Blank Spike
OP31540-BSD	2P98988.D	01/15/21	16:33	03:58	Blank Spike Duplicate
ZZZZZZ	2P98989.D	01/15/21	16:59	04:24	(unrelated sample)
ZZZZZZ	2P98990.D	01/15/21	17:24	04:49	(unrelated sample)
ZZZZZZ	2P98991.D	01/15/21	17:50	05:15	(unrelated sample)
ZZZZZZ	2P98992.D	01/15/21	18:16	05:41	(unrelated sample)
ZZZZZZ	2P98993.D	01/15/21	18:42	06:07	(unrelated sample)
ZZZZZZ	2P98994.D	01/15/21	19:08	06:33	(unrelated sample)
ZZZZZZ	2P98995.D	01/15/21	19:34	06:59	(unrelated sample)
JD18939-1	2P98996.D	01/15/21	20:00	07:25	S-10R
ZZZZZZ	2P98997.D	01/15/21	20:26	07:51	(unrelated sample)
ZZZZZZ	2P98998.D	01/15/21	20:52	08:17	(unrelated sample)
ZZZZZZ	2P98999.D	01/15/21	21:18	08:43	(unrelated sample)
JD18939-2	2P99000.D	01/15/21	21:44	09:09	S-15R
JD18939-3	2P99001.D	01/15/21	22:09	09:34	S-18R

Instrument Performance Check (DFTPP)

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample:	E2P4412-DFTPP	**Injection Date:**	01/15/21
Lab File ID:	2P98981.D	**Injection Time:**	12:35
Instrument ID:	GCMS2P		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
OP31540-MS	2P99002.D	01/15/21	22:35	10:00	Matrix Spike
OP31540-MSD	2P99003.D	01/15/21	23:01	10:26	Matrix Spike Duplicate
JD18961-8	2P99004.D	01/15/21	23:27	10:52	(used for QC only; not part of job JD18939)
ZZZZZZ	2P99005.D	01/15/21	23:53	11:18	(unrelated sample)

Internal Standard Area Summary

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Check Std:	E2P4412-CC4365	**Injection Date:**	01/15/21
Lab File ID:	2P98982.D	**Injection Time:**	12:45
Instrument ID:	GCMS2P	**Method:**	SW846 8270E

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	348467	4.43	1232886	5.42	670748	7.34	1244584	9.46	1293421	13.62	1201043	15.73
Upper Limit [a]	696934	4.93	2465772	5.92	1341496	7.84	2489168	9.96	2586842	14.12	2402086	16.23
Lower Limit [b]	174234	3.93	616443	4.92	335374	6.84	622292	8.96	646711	13.12	600522	15.23

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP31540-MB1	459581	4.43	1663653	5.42	836454	7.34	1586317	9.46	1674443	13.62	1720024	15.74
OP31540-BS1	513675	4.43	1752076	5.42	894882	7.35	1773040	9.47	1979276	13.63	1776299	15.74
OP31540-BSD	563754	4.43	1874466	5.42	957897	7.35	1855434	9.47	2091495	13.63	1828959	15.74
ZZZZZZ	486310	4.43	1722689	5.42	984443	7.34	1656514	9.46	1559254	13.62	1766166	15.74
ZZZZZZ	486947	4.43	1752134	5.42	1015314	7.34	1706524	9.46	1587168	13.62	1760278	15.74
ZZZZZZ	540610	4.43	1885090	5.42	1082181	7.34	1740582	9.46	1636694	13.62	1763064	15.74
ZZZZZZ	490965	4.43	1788516	5.42	1030373	7.34	1674580	9.46	1531179	13.62	1624821	15.74
ZZZZZZ	428144	4.43	1589384	5.42	923773	7.34	1578159	9.46	1520310	13.62	1669089	15.74
ZZZZZZ	529772	4.43	1917768	5.42	1106172	7.34	1807484	9.46	1665083	13.62	1779374	15.74
ZZZZZZ	519794	4.43	1805677	5.42	1010149	7.34	1625057	9.46	1497175	13.62	1545820	15.74
JD18939-1	494066	4.43	1732980	5.42	976985	7.34	1583724	9.46	1425848	13.62	1500111	15.74
ZZZZZZ	527854	4.43	1896700	5.42	1058953	7.34	1741931	9.46	1531576	13.63	1606714	15.74
ZZZZZZ	349668	4.43	1249936	5.42	728008	7.34	1230066	9.46	1164187	13.62	1239912	15.74
ZZZZZZ	261555	4.43	990958	5.42	581371	7.34	1015663	9.46	1004157	13.62	1125715	15.74
JD18939-2	350081	4.43	1281323	5.42	743837	7.34	1205170	9.46	1126776	13.63	1255285	15.75
JD18939-3	491760	4.43	1732455	5.42	994022	7.35	1587733	9.47	1429985	13.64	1579449	15.76
OP31540-MS	428547	4.43	1504048	5.42	865863	7.36	1415615	9.48	1316779	13.71	1405844	15.83
OP31540-MSD	329025	4.43	1173302	5.42	687898	7.37	1138206	9.49	1043937	13.73	1142768	15.84
JD18961-8	492283	4.44	1760190	5.43	983393	7.37	1554214	9.50	1432510	13.74	1474770	15.86
ZZZZZZ	484824	4.44	1744711	5.43	993554	7.38	1566606	9.54	1436150	13.74	1484934	15.87

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Surrogate Recovery Summary

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Method: SW846 8270E **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JD18939-1	2P98996.D	52	50	64	69	58	75
JD18939-2	2P99000.D	45	47	54	58	49	57
JD18939-3	2P99001.D	46	47	58	60	51	63
OP31540-BS1	2P98987.D	65	67	69	82	76	70
OP31540-BSD	2P98988.D	65	66	69	84	78	70
OP31540-MB1	2P98985.D	71	71	79	90	85	84
OP31540-MS	2P99002.D	57	58	63	70	57	64
OP31540-MSD	2P99003.D	55	55	61	65	54	65

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	7-101%
S2 = Phenol-d5	12-101%
S3 = 2,4,6-Tribromophenol	10-127%
S4 = Nitrobenzene-d5	15-114%
S5 = 2-Fluorobiphenyl	22-104%
S6 = Terphenyl-d14	23-121%

Initial Calibration Summary

Job Number: JD18939 **Sample:** E2P4365-ICC4365
Account: LBGNJ WSP USA **Lab FileID:** 2P97995.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Response Factor Report MS2P

Method : C:\MSDCHEM\1\METHODS\M2P4365.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Dec 04 14:04:08 2020
Response via : Initial Calibration

Calibration Files
2 =2p97991.D 5 =2p97992.D 25 =2p97994.D 80 =2p97996.D
100 =2p97997.D 50 =2p97995.D 1 =2p97990.D 10 =2p97993.D

Compound	2	5	25	80	100	50	1	10	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	ISTD									
2) 1,4-Dioxane	0.573	0.639	0.653	0.683	0.717	0.669	0.725	0.635	0.662	7.38
3) Pyridine	1.447	1.728	1.717	1.815	1.875	1.781	1.341	1.725	1.678	11.07
4) N-Nitrosodim	0.858	0.917	0.971	1.003	1.054	0.987	0.908	0.902	0.950	6.79
5) 2-Fluorophen	1.229	1.304	1.384	1.456	1.528	1.425	1.242	1.336	1.363	7.71
6) Indene	2.323	2.421	2.400	2.428	2.459	2.447	2.460	2.425	2.420	1.83
7) Cumene	3.441	3.527	3.615	3.674	3.673	3.658	3.618	3.469	3.584	2.59
8) Phenol-d5	1.575	1.676	1.754	1.811	1.864	1.817	1.614	1.700	1.726	5.94
9) Phenol	1.798	1.886	1.993	2.030	2.123	2.047	1.844	1.880	1.950	5.85
10) Aniline	2.033	2.110	2.008	2.052	2.164	2.026	2.000	2.112	2.063	2.85
11) bis(2-Chloro	1.436	1.422	1.536	1.552	1.599	1.564	1.514	1.490	1.514	4.09
12) 2-Chlorophen	1.319	1.385	1.379	1.413	1.468	1.424	1.377	1.394	1.395	3.10
13) Decane	1.853	1.917	1.837	1.790	1.727	1.811	1.886	1.891	1.839	3.38
14) 1,3-Dichloro	1.485	1.505	1.501	1.515	1.521	1.538	1.592	1.491	1.518	2.26
15) 1,4-Dichloro	1.491	1.511	1.508	1.527	1.531	1.523	1.666	1.489	1.531	3.70
16) Benzyl alcoh	0.733	0.768	0.796	0.824	0.853	0.836	0.731	0.809	0.794	5.77
17) 1,2-Dichloro	1.395	1.388	1.426	1.435	1.461	1.436	1.473	1.404	1.427	2.13
18) Acetophenone	1.897	2.003	1.977	1.972	1.988	2.011	1.980	1.996	1.978	1.79
19) 2-Methylphen	1.210	1.252	1.249	1.237	1.261	1.236	1.197	1.230	1.234	1.75
20) 2,2'-oxybis(	0.343	0.345	0.336	0.335	0.340	0.331	0.405	0.343	0.347	6.87
21) 3&4-Methylph	1.221	1.328	1.314	1.327	1.379	1.342	1.319	1.290	1.315	3.49
22) n-Nitroso-di	1.102	1.144	1.116	1.121	1.129	1.139	1.081	1.136	1.121	1.88
23) Hexachloroet	0.529	0.519	0.503	0.509	0.510	0.512	0.568	0.510	0.520	4.01
24) I Naphthalene-d8	ISTD									
25) Nitrobenzene	0.422	0.457	0.455	0.457	0.460	0.462	0.424	0.455	0.449	3.67
26) Nitrobenzene	0.456	0.475	0.462	0.463	0.453	0.468	0.457	0.475	0.464	1.78
27) Quinoline	0.631	0.684	0.694	0.698	0.723	0.703	0.635	0.681	0.681	4.76
28) Isophorone	0.684	0.736	0.752	0.754	0.765	0.754	0.697	0.739	0.735	3.98
29) 2-Nitropheno	0.169	0.183	0.198	0.204	0.212	0.200	0.170	0.190	0.191	8.24
30) 2,4-Dimethyl	0.326	0.351	0.362	0.384	0.393	0.382	0.325	0.359	0.360	7.16
31) Benzoic acid		0.247	0.306	0.315	0.327	0.327		0.271	0.299	10.95
32) bis(2-Chloro	0.450	0.481	0.483	0.487	0.491	0.487	0.466	0.479	0.478	2.85
33) 2,4-Dichloro	0.283	0.300	0.305	0.309	0.320	0.309	0.275	0.299	0.300	4.89
34) 2,6-Dichloro	0.279	0.282	0.286	0.290	0.293	0.291	0.281	0.278	0.285	2.07
35) 1,3,5-Trichl	0.341	0.353	0.352	0.354	0.357	0.350	0.345	0.348	0.350	1.49
36) 1,2,4-Trichl	0.315	0.333	0.327	0.324	0.327	0.331	0.343	0.324	0.328	2.49
37) 1,2,3-Trichl	0.320	0.331	0.327	0.328	0.327	0.329	0.324	0.321	0.326	1.20
38) Naphthalene	0.958	0.994	1.004	1.000	0.993	0.992	1.032	0.985	0.995	2.06
39) 4-Chloroanil	0.394	0.415	0.412	0.414	0.425	0.410	0.413	0.419	0.413	2.13
40) 2,3-Dichloro	0.361	0.369	0.371	0.371	0.380	0.375	0.382	0.362	0.371	2.08
41) Caprolactam	0.089	0.103	0.108	0.111	0.114	0.112	0.089	0.106	0.104	9.50
42) Hexachlorobu	0.195	0.200	0.195	0.191	0.192	0.193	0.193	0.193	0.194	1.46
43) 4-Chloro-3-m	0.310	0.333	0.346	0.354	0.360	0.353	0.313	0.336	0.338	5.51
44) 2-Methylnaph	0.500	0.529	0.534	0.544	0.548	0.538	0.536	0.525	0.532	2.76
45) 1-Methylnaph	0.600	0.607	0.607	0.619	0.621	0.613	0.603	0.604	0.609	1.29

Initial Calibration Summary

Job Number: JD18939 **Sample:** E2P4365-ICC4365
Account: LBGNJ WSP USA **Lab FileID:** 2P97995.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

```
46) Dimethylnaph 0.561 0.594 0.598 0.591 0.598 0.592 0.588 0.589 0.589   2.03

47) I   Acenaphthene-d10      ----------------ISTD---------------------
48) Hexachlorocy       0.326 0.381 0.418 0.419 0.388       0.356 0.381   9.44
49) 2,4,6-Trichl 0.374 0.399 0.419 0.408 0.415 0.414 0.375 0.400 0.401   4.43
50) 2,4,5-Trichl 0.398 0.412 0.435 0.434 0.430 0.431 0.405 0.434 0.422   3.52
51) 2-Fluorobiph 1.291 1.331 1.341 1.309 1.303 1.290 1.356 1.304 1.316   1.84
52) 2-Chloronaph 1.149 1.195 1.225 1.165 1.161 1.170 1.212 1.209 1.186   2.37
53) Biphenyl     1.486 1.581 1.581 1.542 1.537 1.542 1.613 1.578 1.558   2.50
54) 2-Nitroanili 0.434 0.483 0.508 0.501 0.495 0.504 0.418 0.498 0.480   7.17
55) Dimethylphth 1.324 1.408 1.425 1.394 1.396 1.389 1.340 1.392 1.383   2.46
56) Acenaphthyle 1.752 1.886 1.888 1.863 1.862 1.841 1.717 1.870 1.835   3.51
57) 2,6-Dinitrot 0.252 0.274 0.299 0.301 0.305 0.302 0.253 0.291 0.285   7.72
58) 3-Nitroanili 0.284 0.316 0.349 0.349 0.352 0.342 0.253 0.332 0.322  11.23
59) Acenaphthene 1.176 1.218 1.231 1.197 1.211 1.212 1.252 1.217 1.214   1.85
60) 2,4-Dinitrop 0.067 0.108 0.183 0.203 0.212 0.196       0.141 0.159  34.72
          ----- Quadratic regression -----              Coefficient =  0.9993
               Response Ratio = -0.01398 + 0.18024 *A + 0.00702 *A^2

61) 4-Nitropheno       0.177 0.223 0.232 0.232 0.226       0.195 0.214  10.71
62) Dibenzofuran 1.593 1.661 1.646 1.637 1.614 1.607 1.631 1.641 1.629   1.39
63) 2,4-Dinitrot 0.352 0.376 0.415 0.417 0.413 0.412 0.310 0.402 0.387  10.04
64) 2,3,4,6-Tetr 0.288 0.324 0.342 0.346 0.350 0.347 0.286 0.325 0.326   7.96
65) Diethylphtha 1.328 1.435 1.465 1.433 1.436 1.440 1.345 1.434 1.414   3.49
66) Fluorene     1.258 1.314 1.338 1.307 1.317 1.321 1.295 1.321 1.309   1.83
67) 4-Chlorophen 0.615 0.656 0.650 0.642 0.639 0.641 0.658 0.656 0.645   2.17
68) 4-Nitroanili 0.267 0.301 0.336 0.330 0.333 0.329 0.209 0.321 0.303  14.62

69) I   Phenanthrene-d10      ----------------ISTD---------------------
70) 4,6-Dinitro-       0.113 0.143 0.151 0.157 0.149       0.130 0.140  11.45
71) n-Nitrosodip 0.500 0.528 0.528 0.517 0.531 0.522 0.494 0.521 0.517   2.59
72) 1,2-Diphenyl 0.860 0.930 0.928 0.895 0.988 0.911 0.876 0.925 0.914   4.31
73) 2,4,6-Tribro 0.127 0.145 0.155 0.155 0.164 0.153 0.114 0.145 0.145  11.42
74) 4-Bromopheny 0.225 0.240 0.240 0.240 0.249 0.240 0.238 0.237 0.239   2.86
75) Hexachlorobe 0.261 0.281 0.279 0.277 0.289 0.277 0.280 0.275 0.277   2.83
76) Pentachlorop 0.086 0.115 0.157 0.172 0.184 0.164       0.132 0.144  24.35
          ----- Quadratic regression -----              Coefficient =  0.9996
               Response Ratio = -0.00718 + 0.14837 *A + 0.00714 *A^2

77) Phenanthrene 1.029 1.078 1.066 1.040 1.061 1.046 1.141 1.047 1.063   3.29
78) Anthracene   1.014 1.089 1.078 1.059 1.084 1.070 1.057 1.070 1.065   2.19
79) Carbazole    0.960 1.007 1.011 1.008 1.032 1.005 0.981 1.004 1.001   2.16
80) Di-n-butylph 1.198 1.352 1.400 1.387 1.420 1.393 1.166 1.357 1.334   7.26
81) Fluoranthene 1.078 1.152 1.199 1.199 1.245 1.194 1.111 1.160 1.167   4.59
82) Octadecane   0.422 0.439 0.431 0.411 0.410 0.417 0.412 0.425 0.421   2.45

83) I   Chrysene-d12          ----------------ISTD---------------------
84) Pyrene       1.136 1.229 1.198 1.188 1.206 1.187 1.143 1.206 1.187   2.67
85) Terphenyl-d1 0.895 0.940 0.949 0.941 0.966 0.935 0.897 0.928 0.931   2.64
86) Butylbenzylp 0.531 0.574 0.616 0.623 0.636 0.623 0.466 0.596 0.583   9.98
87) Benzo[a]anth 1.118 1.158 1.179 1.154 1.190 1.160 1.194 1.149 1.163   2.13
88) 3,3'-Dichlor 0.366 0.421 0.444 0.461 0.474 0.448 0.353 0.425 0.424  10.30
89) Chrysene     1.078 1.130 1.111 1.087 1.095 1.093 1.201 1.114 1.113   3.52
90) bis(2-Ethylh 0.662 0.787 0.843 0.831 0.837 0.830 0.610 0.804 0.775  11.48

91) I   Perylene-d12          ----------------ISTD---------------------
92) Di-n-octylph 1.073 1.278 1.481 1.490 1.524 1.547       1.399 1.399  12.15
93) Benzo[b]fluo 1.066 1.126 1.251 1.246 1.341 1.277 1.080 1.171 1.195   8.32
94) Benzo[k]fluo 1.057 1.137 1.120 1.094 1.052 1.156 1.075 1.129 1.103   3.50
95) Benzo[a]pyre 0.943 1.015 1.068 1.064 1.108 1.092 0.963 1.048 1.038   5.73
```

Initial Calibration Summary

Job Number: JD18939 **Sample:** E2P4365-ICC4365
Account: LBGNJ WSP USA **Lab FileID:** 2P97995.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

```
 96) Indeno[1,2,3 0.940 1.058 1.168 1.194 1.300 1.209 0.964 1.069 1.113  11.32
 97) Dibenz(a,h)a 0.903 0.986 1.084 1.084 1.140 1.102 0.937 1.022 1.032   8.16
 98) Dibenz[a,h]a 1.051 1.136 1.204 1.179 1.224 1.200 1.104 1.153 1.156   5.02
 99) 7,12-Dimethy 0.265 0.300 0.386 0.549 0.580 0.488       0.367 0.419  29.07
          ----- Quadratic regression -----                Coefficient =  0.9994
               Response Ratio = -0.00674 + 0.36647 *A + 0.08911 *A^2

100) Benzo[g,h,i] 0.993 1.072 1.147 1.120 1.162 1.143 1.027 1.104 1.096   5.54


 ----------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           M2P4365.M         Fri Dec 04 14:56:53 2020   RPT1
```

Initial Calibration Verification

Job Number: JD18939 **Sample:** E2P4365-ICV4365
Account: LBGNJ WSP USA **Lab FileID:** 2P97998.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E2P4365\2p97998.D Vial: 10
Acq On : 3 Dec 2020 8:20 pm Operator: hennys
Sample : icv4365-50 Inst : MS2P
Misc : op30791,e2p4365,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P4365.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Dec 04 14:04:08 2020
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	83	0.00	4.52
3	t	Pyridine	1.678	1.606	4.3	75	0.01	2.37
10		Aniline	2.063	2.295	-11.2	95	0.00	4.30
16	t	Benzyl alcohol	0.794	0.937	-18.0	94	0.00	4.64
24	I	Naphthalene-d8	1.000	1.000	0.0	88	0.00	5.53
39	t	4-Chloroaniline	0.413	0.411	0.5	88	0.00	5.61
44	t	2-Methylnaphthalene	0.532	0.576	-8.3	94	0.00	6.24
47	I	Acenaphthene-d10	1.000	1.000	0.0	87	0.00	7.49
54	t	2-Nitroaniline	0.480	0.487	-1.5	84	0.00	6.94
58	t	3-Nitroaniline	0.322	0.336	-4.3	85	0.00	7.48
62	t	Dibenzofuran	1.629	1.682	-3.3	91	0.00	7.77
68	t	4-Nitroaniline	0.303	0.354	-16.8	93	-0.01	8.33
69	I	Phenanthrene-d10	1.000	1.000	0.0	87	0.00	9.61
79	t	Carbazole	1.001	1.055	-5.4	91	0.00	10.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p97995.D M2P4365.M Fri Dec 04 14:57:13 2020 RPT1

Initial Calibration Verification

Job Number: JD18939 **Sample:** E2P4365-ICV4365
Account: LBGNJ WSP USA **Lab FileID:** 2P97999.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E2P4365\2p97999.D Vial: 11
Acq On : 3 Dec 2020 8:46 pm Operator: hennys
Sample : icv4365-50 Inst : MS2P
Misc : op30791,e2p4365,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P4365.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Dec 04 14:04:08 2020
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	94	0.00	4.52
2	t	1,4-Dioxane	0.662	0.632	4.5	88	0.03	2.03
4	t	N-Nitrosodimethylamine	0.950	0.971	-2.2	92	0.02	2.36
6	t	Indene	2.420	2.292	5.3	88	0.00	4.71
7	t	Cumene	3.584	3.460	3.5	89	0.00	3.94
9	t	Phenol	1.950	1.931	1.0	88	0.00	4.36
11	t	bis(2-Chloroethyl)ether	1.514	1.370	9.5	82	0.00	4.34
12	t	2-Chlorophenol	1.395	1.362	2.4	90	0.00	4.40
13	t	Decane	1.839	1.707	7.2	88	0.00	4.42
14	t	1,3-Dichlorobenzene	1.518	1.468	3.3	89	0.00	4.48
15	t	1,4-Dichlorobenzene	1.531	1.461	4.6	90	0.00	4.54
17	t	1,2-Dichlorobenzene	1.427	1.400	1.9	91	0.00	4.64
18	t	Acetophenone	1.978	1.892	4.3	88	0.00	4.82
19	t	2-Methylphenol	1.234	1.194	3.2	90	0.00	4.77
20	t	2,2'-oxybis(1-Chloropropa	0.347	0.354	-2.0	100	0.00	4.72
21	t	3&4-Methylphenol	1.315	1.243	5.5	87	0.00	4.88
22	t	n-Nitroso-di-n-propylamin	1.121	1.071	4.5	88	0.00	4.82
23	t	Hexachloroethane	0.520	0.491	5.6	90	0.00	4.89
24	I	Naphthalene-d8	1.000	1.000	0.0	93	0.00	5.53
26	t	Nitrobenzene	0.464	0.454	2.2	90	0.00	4.95
27	t	Quinoline	0.681	0.654	4.0	86	-0.02	5.87
28	t	Isophorone	0.735	0.709	3.5	87	0.00	5.13
29	t	2-Nitrophenol	0.191	0.186	2.6	86	0.00	5.20
30	t	2,4-Dimethylphenol	0.360	0.356	1.1	86	0.00	5.28
31	t	Benzoic acid	0.299	0.318	-6.4	90	0.00	5.43
32	t	bis(2-Chloroethoxy)methan	0.478	0.437	8.6	83	0.00	5.32
33	t	2,4-Dichlorophenol	0.300	0.295	1.7	89	0.00	5.45
34	t	2,6-Dichlorophenol	0.285	0.286	-0.4	91	0.00	5.63
36	t	1,2,4-Trichlorobenzene	0.328	0.319	2.7	89	0.00	5.48
38	t	Naphthalene	0.995	0.979	1.6	91	0.00	5.55
40	t	2,3-Dichloroaniline	0.371	0.328	11.6	81	0.00	6.56
41	t	Caprolactam	0.104	0.104	0.0	86	0.00	5.97
42	t	Hexachlorobutadiene	0.194	0.199	-2.6	95	0.00	5.67
43	t	4-Chloro-3-methylphenol	0.338	0.327	3.3	86	0.00	6.16
45	t	1-Methylnaphthalene	0.609	0.550	9.7	83	0.00	6.34
46	t	Dimethylnaphthalene	0.589	0.569	3.4	89	0.00	6.96
47	I	Acenaphthene-d10	1.000	1.000	0.0	94	0.00	7.49
48	t	Hexachlorocyclopentadiene	0.381	0.379	0.5	92	0.00	6.42
49	t	2,4,6-Trichlorophenol	0.401	0.382	4.7	87	0.00	6.59
50	t	2,4,5-Trichlorophenol	0.422	0.410	2.8	89	0.00	6.66

Initial Calibration Verification

Job Number: JD18939 **Sample:** E2P4365-ICV4365
Account: LBGNJ WSP USA **Lab FileID:** 2P97999.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

52	t	2-Chloronaphthalene	1.186	1.106	6.7	89	0.00	6.79
53	t	Biphenyl	1.558	1.473	5.5	90	0.00	6.78
55	t	Dimethylphthalate	1.383	1.256	9.2	85	0.00	7.18
56	t	Acenaphthylene	1.835	1.682	8.3	86	0.00	7.30
57	t	2,6-Dinitrotoluene	0.285	0.278	2.5	86	0.00	7.25
59	t	Acenaphthene	1.214	1.131	6.8	88	0.00	7.53
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	100.000	92.580	7.4	84	0.00	7.62
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.214	0.203	5.1	84	0.00	7.88
63	t	2,4-Dinitrotoluene	0.387	0.375	3.1	86	0.00	7.79
64		2,3,4,6-Tetrachlorophenol	0.326	0.335	-2.8	91	0.00	7.99
65	t	Diethylphthalate	1.414	1.315	7.0	86	0.00	8.16
66	t	Fluorene	1.309	1.257	4.0	89	0.00	8.25
67	t	4-Chlorophenyl-phenylethe	0.645	0.583	9.6	86	0.00	8.27
69	I	Phenanthrene-d10	1.000	1.000	0.0	94	0.00	9.62
70	t	4,6-Dinitro-2-methylpheno	0.140	0.120	14.3	76	0.00	8.37
71	t	n-Nitrosodiphenylamine	0.517	0.447	13.5	81	0.00	8.46
72	t	1,2-Diphenylhydrazine	0.914	0.881	3.6	91	0.00	8.50
74	t	4-Bromophenyl-phenylether	0.239	0.220	7.9	86	0.00	8.98
75	t	Hexachlorobenzene	0.277	0.264	4.7	90	0.00	9.06
		----------	True	Calc.	% Drift	----------		
76	t	Pentachlorophenol	100.000	86.042	14.0	74	0.00	9.40
		----------	AvgRF	CCRF	% Dev	----------		
77	t	Phenanthrene	1.063	1.008	5.2	91	0.00	9.65
78	t	Anthracene	1.065	0.991	6.9	87	0.00	9.73
80	t	Di-n-butylphthalate	1.334	1.266	5.1	86	0.00	10.65
81	t	Fluoranthene	1.167	1.151	1.4	91	0.00	11.49
82	t	Octadecane	0.421	0.389	7.6	88	0.00	9.61
83	I	Chrysene-d12	1.000	1.000	0.0	92	0.00	13.77
84	t	Pyrene	1.187	1.130	4.8	88	0.00	11.84
86	t	Butylbenzylphthalate	0.583	0.571	2.1	84	0.00	13.01
87	t	Benzo[a]anthracene	1.163	1.128	3.0	90	0.00	13.76
89	t	Chrysene	1.113	1.048	5.8	88	0.00	13.81
90	t	bis(2-Ethylhexyl)phthalat	0.775	0.765	1.3	85	0.00	13.99
91	I	Perylene-d12	1.000	1.000	0.0	93	0.00	15.88
92	t	Di-n-octylphthalate	1.399	1.386	0.9	84	0.00	14.97
93	t	Benzo[b]fluoranthene	1.195	1.203	-0.7	88	0.00	15.36
94	t	Benzo[k]fluoranthene	1.103	1.050	4.8	85	0.00	15.40
95	t	Benzo[a]pyrene	1.038	1.019	1.8	87	0.00	15.79
96	t	Indeno[1,2,3-cd]pyrene	1.113	1.127	-1.3	87	0.00	17.24
98	t	Dibenz[a,h]anthracene	1.156	1.099	4.9	85	0.00	17.28
		----------	True	Calc.	% Drift	----------		
99	t	7,12-Dimethylbenz(a)anthr	50.000	44.618	10.8	79	0.00	15.37
		----------	AvgRF	CCRF	% Dev	----------		
100	t	Benzo[g,h,i]perylene	1.096	1.082	1.3	88	0.00	17.61

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Initial Calibration Verification

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample: E2P4365-ICV4365
Lab FileID: 2P97999.D

2p97995.D M2P4365.M Fri Dec 04 14:57:15 2020 RPT1

Initial Calibration Verification

Job Number: JD18939 **Sample:** E2P4365-ICV4365
Account: LBGNJ WSP USA **Lab FileID:** 2P98000.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E2P4365\2p98000.D Vial: 12
Acq On : 3 Dec 2020 9:12 pm Operator: hennys
Sample : icv4365-50 Inst : MS2P
Misc : op30791,e2p4365,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P4365.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Dec 04 14:04:08 2020
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	82	0.00	4.52
5	S	2-Fluorophenol	1.363	1.378	-1.1	79	0.00	3.64
8	S	Phenol-d5	1.726	1.737	-0.6	79	0.00	4.35
24	I	Naphthalene-d8	1.000	1.000	0.0	85	0.00	5.53
25	S	Nitrobenzene-d5	0.449	0.468	-4.2	86	0.00	4.93
47	I	Acenaphthene-d10	1.000	1.000	0.0	82	0.00	7.49
51	S	2-Fluorobiphenyl	1.316	1.337	-1.6	85	0.00	6.65
69	I	Phenanthrene-d10	1.000	1.000	0.0	83	0.00	9.61
73	S	2,4,6-Tribromophenol	0.145	0.149	-2.8	82	-0.01	8.60
83	I	Chrysene-d12	1.000	1.000	0.0	81	-0.01	13.76
85	S	Terphenyl-d14	0.931	0.967	-3.9	84	0.00	12.16

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p97995.D M2P4365.M Fri Dec 04 14:57:17 2020 RPT1

Initial Calibration Verification

Job Number: JD18939 **Sample:** E2P4365-ICV4365
Account: LBGNJ WSP USA **Lab FileID:** 2P98001.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E2P4365\2p98001.D Vial: 13
Acq On : 3 Dec 2020 9:38 pm Operator: hennys
Sample : icv4365-50 Inst : MS2P
Misc : op30791,e2p4365,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P4365.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Dec 04 14:04:08 2020
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
83 I	Chrysene-d12	1.000	1.000	0.0	114	-0.01	13.76
88 t	3,3'-Dichlorobenzidine	0.424	0.446	-5.2	114	0.00	13.78

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p97995.D M2P4365.M Fri Dec 04 14:57:19 2020 RPT1

Initial Calibration Summary

Job Number: JD18939 **Sample:** E2P4366-ICC4366
Account: LBGNJ WSP USA **Lab FileID:** 2P98005.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Response Factor Report MS2P

Method : C:\MSDCHEM\1\METHODS\M2P4366.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Dec 04 15:27:17 2020
Response via : Initial Calibration

Calibration Files
2 =2p98009.D 5 =2p98008.D 25 =2p98006.D 80 =2p98004.D
100 =2p98003.D 50 =2p98005.D 1 =2p98010.D 10 =2p98007.D

Compound	2	5	25	80	100	50	1	10	Avg	%RSD
101) I 1,4-Dichlorobenzene-d	ISTD									
102) Benzaldehyde	1.095	1.132	1.183	1.218	1.246	1.200	1.055	1.132	1.158	5.63
109) I Phenanthrene-d10a	ISTD									
110) Pentachloron	0.038	0.045	0.048	0.049	0.047		0.043	0.045#		9.24
111) Atrazine	0.079	0.094	0.100	0.107	0.109	0.104	0.079	0.095	0.096	12.17

(#) = Out of Range ### Number of calibration levels exceeded format ###

M2P4365.M Fri Dec 04 15:29:03 2020 RPT1

Initial Calibration Summary

Job Number: JD18939 **Sample:** E2P4367-ICC4367
Account: LBGNJ WSP USA **Lab FileID:** 2P98015.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Response Factor Report MS2P

Method : C:\MSDCHEM\1\METHODS\M2P4367.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Dec 04 16:05:32 2020
Response via : Initial Calibration

Calibration Files
2 =2p98019.D 5 =2p98018.D 25 =2p98016.D 80 =2p98014.D
100 =2p98013.D 50 =2p98015.D 1 =2p98020.D 10 =2p98017.D

Compound	2	5	25	80	100	50	1	10	Avg	%RSD
103) I Naphthalene-d8a	----------ISTD----------									
104) Hydroquinone	0.220	0.310	0.338	0.350	0.345		0.210	0.295		21.72
----- Quadratic regression ----- Coefficient = 0.9980										
Response Ratio = -0.01983 + 0.33622 *A + 0.00867 *A^2										
105) I Acenaphthene-d10a	----------ISTD----------									
106) 1,2,4,5-Tetr	0.569	0.572	0.593	0.606	0.631	0.613	0.599	0.597	0.598	3.42
107) I Chrysene-d12a	----------ISTD----------									
108) Benzidine	0.558	0.728	0.742	0.735	0.755		0.672	0.698		10.65
117) I Phenanthrene-d10b	----------ISTD----------									
118) 1-Chloroocta	0.383	0.398	0.427	0.412	0.421	0.430	0.358	0.417	0.406	6.08
119) o-terphenyl	0.526	0.526	0.562	0.564	0.585	0.570	0.530	0.545	0.551	4.11

(#) = Out of Range ### Number of calibration levels exceeded format ###

M2P4365.M Fri Dec 04 16:06:23 2020 RPT1

Initial Calibration Verification

Job Number: JD18939 **Sample:** E2P4367-ICV4367
Account: LBGNJ WSP USA **Lab FileID:** 2P98021.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E2P4366\2p98021.D Vial: 31
Acq On : 4 Dec 2020 5:45 am Operator: hennys
Sample : icv4367-50 Inst : MS2P
Misc : op30791,e2p4367,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P4365.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Dec 04 16:05:32 2020
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
107 I	Chrysene-d12a	1.000	1.000	0.0	125	0.00	13.76
108	Benzidine	0.698	0.739	-5.9	122	0.00	11.78

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p98015a.D M2P4365.M Fri Dec 04 16:07:33 2020 RPT1

Initial Calibration Verification

Job Number: JD18939 **Sample:** E2P4367-ICV4367
Account: LBGNJ WSP USA **Lab FileID:** 2P98022.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E2P4366\2p98022.D Vial: 32
Acq On : 4 Dec 2020 6:11 am Operator: hennys
Sample : icv4367-50 Inst : MS2P
Misc : op30791,e2p4367,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P4365.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Dec 04 16:05:32 2020
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
103 I	Naphthalene-d8a	1.000	1.000	0.0	81	0.00	5.53
	----------	True	Calc.	% Drift	----------		
104	Hydroquinone	50.000	47.376	5.2	73	0.00	6.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p98015a.D M2P4365.M Fri Dec 04 16:07:35 2020 RPT1

Initial Calibration Verification

Job Number: JD18939 **Sample:** E2P4367-ICV4367
Account: LBGNJ WSP USA **Lab FileID:** 2P98023.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E2P4366\2p98023.D Vial: 22
Acq On : 4 Dec 2020 6:37 am Operator: hennys
Sample : icv4367-50 Inst : MS2P
Misc : op30791,e2p4367,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P4365.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Dec 04 16:05:32 2020
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
105 I	Acenaphthene-d10a	1.000	1.000	0.0	76	0.00	7.48
106	1,2,4,5-Tetrachlorobenzen	0.598	0.637	-6.5	79	0.00	6.42

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p98015a.D M2P4365.M Fri Dec 04 16:07:37 2020 RPT1

Initial Calibration Verification

Job Number: JD18939 **Sample:** E2P4367-ICV4366
Account: LBGNJ WSP USA **Lab FileID:** 2P98023A.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E2P4366\2p98023a.D Vial: 22
Acq On : 4 Dec 2020 6:37 am Operator: hennys
Sample : icv4366-50 Inst : MS2P
Misc : op30791,e2p4367,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P4365.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Dec 04 16:05:32 2020
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
101 I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	52	0.00	4.52
102	Benzaldehyde	1.158	1.246	-7.6	54	0.00	4.20
109 I	Phenanthrene-d10a	1.000	1.000	0.0	53	0.00	9.61
110	Pentachloronitrobenzene	0.045	0.053	-17.8	60	0.00	9.38
111	Atrazine	0.096	0.108	-12.5	55	-0.01	9.30

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p98015a.D M2P4365.M Fri Dec 04 16:19:03 2020 RPT1

Continuing Calibration Summary

Job Number: JD18939 **Sample:** E2P4412-CC4365
Account: LBGNJ WSP USA **Lab FileID:** 2P98982.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\jeryllr\e2p4412\2p98982.d Vial: 2
Acq On : 15 Jan 2021 12:45 pm Operator: hennys
Sample : cc4365-25 Inst : MS2P
Misc : op30791,e2p4412,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P4365.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Dec 31 03:26:22 2020
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	51	0.00	4.43
2	t	1,4-Dioxane	0.662	0.926	-39.9#	72	-0.03	1.87
3	t	Pyridine	1.678	2.063	-22.9#	61	-0.02	2.23
4	t	N-Nitrosodimethylamine	0.950	1.204	-26.7#	63	-0.02	2.23
5	S	2-Fluorophenol	1.363	1.263	7.3	46#	0.00	3.50
6	t	Indene	2.420	2.360	2.5	50#	0.00	4.61
7	t	Cumene	3.584	3.563	0.6	50	0.00	3.84
8	S	Phenol-d5	1.726	1.602	7.2	46#	0.00	4.22
9	t	Phenol	1.950	1.869	4.2	48#	0.00	4.23
10		Aniline	2.063	1.857	10.0	47#	0.00	4.20
11	t	bis(2-Chloroethyl)ether	1.514	1.416	6.5	47#	0.00	4.25
12	t	2-Chlorophenol	1.395	1.311	6.0	48#	0.00	4.30
13	t	Decane	1.839	2.198	-19.5	61	0.00	4.32
14	t	1,3-Dichlorobenzene	1.518	1.449	4.5	49#	0.00	4.39
15	t	1,4-Dichlorobenzene	1.531	1.467	4.2	49#	0.00	4.44
16	t	Benzyl alcohol	0.794	0.684	13.9	44#	0.00	4.55
17	t	1,2-Dichlorobenzene	1.427	1.384	3.0	49#	0.00	4.55
18	t	Acetophenone	1.978	2.084	-5.4	53	0.00	4.73
19	t	2-Methylphenol	1.234	1.190	3.6	48#	0.00	4.65
20	t	2,2'-oxybis(1-Chloropropa	0.347	0.329	5.2	50#	0.00	4.63
21	t	3&4-Methylphenol	1.315	1.211	7.9	47#	0.00	4.76
22	t	n-Nitroso-di-n-propylamin	1.121	1.223	-9.1	56	0.00	4.73
23	t	Hexachloroethane	0.520	0.555	-6.7	56	0.00	4.79
24	I	Naphthalene-d8	1.000	1.000	0.0	52	0.00	5.42
25	S	Nitrobenzene-d5	0.449	0.510	-13.6	58	0.00	4.84
26	t	Nitrobenzene	0.464	0.531	-14.4	59	0.00	4.85
27	t	Quinoline	0.681	0.654	4.0	49#	0.00	5.76
28	t	Isophorone	0.735	0.807	-9.8	55	0.00	5.04
29	t	2-Nitrophenol	0.191	0.195	-2.1	51	0.00	5.10
30	t	2,4-Dimethylphenol	0.360	0.372	-3.3	53	0.00	5.16
31	t	Benzoic acid	0.299	0.293	2.0	49#	-0.01	5.30
32	t	bis(2-Chloroethoxy)methan	0.478	0.462	3.3	49#	0.00	5.22
33	t	2,4-Dichlorophenol	0.300	0.291	3.0	49#	0.00	5.33
34	t	2,6-Dichlorophenol	0.285	0.286	-0.4	52	0.00	5.51
35		1,3,5-Trichlorobenzene	0.350	0.359	-2.6	53	0.00	5.11
36	t	1,2,4-Trichlorobenzene	0.328	0.327	0.3	52	0.00	5.38
37		1,2,3-Trichlorobenzene	0.326	0.334	-2.5	53	0.00	5.57
38	t	Naphthalene	0.995	0.950	4.5	49#	0.00	5.43
39	t	4-Chloroaniline	0.413	0.390	5.6	49#	0.00	5.50
40	t	2,3-Dichloroaniline	0.371	0.365	1.6	51	0.00	6.43
41	t	Caprolactam	0.104	0.106	-1.9	51	-0.01	5.84

Continuing Calibration Summary

Job Number: JD18939 **Sample:** E2P4412-CC4365
Account: LBGNJ WSP USA **Lab FileID:** 2P98982.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

42	t	Hexachlorobutadiene	0.194	0.214	-10.3	57	0.00	5.55
43	t	4-Chloro-3-methylphenol	0.338	0.347	-2.7	52	-0.01	6.01
44	t	2-Methylnaphthalene	0.532	0.514	3.4	50#	0.00	6.11
45	t	1-Methylnaphthalene	0.609	0.608	0.2	52	0.00	6.22
46	t	Dimethylnaphthalene	0.589	0.596	-1.2	51	-0.01	6.83
47	I	Acenaphthene-d10	1.000	1.000	0.0	54	0.00	7.34
48	t	Hexachlorocyclopentadiene	0.381	0.174	54.3#	25#	0.00	6.28
49	t	2,4,6-Trichlorophenol	0.401	0.396	1.2	51	0.00	6.45
50	t	2,4,5-Trichlorophenol	0.422	0.421	0.2	52	0.00	6.51
51	S	2-Fluorobiphenyl	1.316	1.312	0.3	53	0.00	6.53
52	t	2-Chloronaphthalene	1.186	1.167	1.6	51	0.00	6.65
53	t	Biphenyl	1.558	1.526	2.1	52	0.00	6.64
54	t	2-Nitroaniline	0.480	0.609	-26.9#	65	0.00	6.80
55	t	Dimethylphthalate	1.383	1.432	-3.5	54	0.00	7.04
56	t	Acenaphthylene	1.835	1.771	3.5	51	0.00	7.16
57	t	2,6-Dinitrotoluene	0.285	0.290	-1.8	52	0.00	7.12
58	t	3-Nitroaniline	0.322	0.320	0.6	50#	0.00	7.34
59	t	Acenaphthene	1.214	1.200	1.2	53	0.00	7.39
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.000	44.357	11.3	46	0.02	7.50
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.214	0.240	-12.1	58	0.00	7.68
62	t	Dibenzofuran	1.629	1.599	1.8	52	0.00	7.62
63	t	2,4-Dinitrotoluene	0.387	0.421	-8.8	55	0.01	7.67
64		2,3,4,6-Tetrachlorophenol	0.326	0.306	6.1	48#	0.00	7.83
65	t	Diethylphthalate	1.414	1.520	-7.5	56	0.00	8.01
66	t	Fluorene	1.309	1.297	0.9	52	0.00	8.09
67	t	4-Chlorophenyl-phenylethe	0.645	0.639	0.9	53	0.00	8.12
68	t	4-Nitroaniline	0.303	0.267	11.9	43#	0.00	8.18
69	I	Phenanthrene-d10	1.000	1.000	0.0	55	0.00	9.46
70	t	4,6-Dinitro-2-methylpheno	0.140	0.128	8.6	49#	0.00	8.25
71	t	n-Nitrosodiphenylamine	0.517	0.494	4.4	51	-0.01	8.30
72	t	1,2-Diphenylhydrazine	0.914	1.039	-13.7	61	0.00	8.34
73	S	2,4,6-Tribromophenol	0.145	0.138	4.8	49#	0.00	8.45
74	t	4-Bromophenyl-phenylether	0.239	0.230	3.8	53	-0.01	8.82
75	t	Hexachlorobenzene	0.277	0.268	3.2	53	0.00	8.91
		----------	True	Calc.	% Drift	----------		
76	t	Pentachlorophenol	50.000	42.294	15.4	44	0.00	9.24
		----------	AvgRF	CCRF	% Dev	----------		
77	t	Phenanthrene	1.063	1.025	3.6	53	0.00	9.49
78	t	Anthracene	1.065	1.030	3.3	52	0.00	9.57
79	t	Carbazole	1.001	0.931	7.0	51	0.00	9.86
80	t	Di-n-butylphthalate	1.334	1.421	-6.5	56	0.00	10.50
81	t	Fluoranthene	1.167	1.170	-0.3	54	0.00	11.34
82	t	Octadecane	0.421	0.670	-59.1#	85	0.00	9.46
83	I	Chrysene-d12	1.000	1.000	0.0	55	0.00	13.62
84	t	Pyrene	1.187	1.172	1.3	54	0.00	11.68
85	S	Terphenyl-d14	0.931	0.936	-0.5	54	0.00	12.01
86	t	Butylbenzylphthalate	0.583	0.640	-9.8	57	0.00	12.85
87	t	Benzo[a]anthracene	1.163	1.176	-1.1	55	0.00	13.60
88	t	3,3'-Dichlorobenzidine	0.424	0.429	-1.2	53	0.00	13.62
89	t	Chrysene	1.113	1.083	2.7	54	0.00	13.66
90	t	bis(2-Ethylhexyl)phthalat	0.775	0.895	-15.5	58	0.00	13.83

Continuing Calibration Summary

Job Number: JD18939 **Sample:** E2P4412-CC4365
Account: LBGNJ WSP USA **Lab FileID:** 2P98982.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

91	I	Perylene-d12	1.000	1.000	0.0	50	0.00	15.73
92	t	Di-n-octylphthalate	1.399	1.702	-21.7#	58	0.00	14.81
93	t	Benzo[b]fluoranthene	1.195	1.319	-10.4	53	0.00	15.22
94	t	Benzo[k]fluoranthene	1.103	1.218	-10.4	55	0.00	15.25
95	t	Benzo[a]pyrene	1.038	1.154	-11.2	54	0.00	15.65
96	t	Indeno[1,2,3-cd]pyrene	1.113	1.224	-10.0	53	0.00	17.09
97	t	Dibenz(a,h)acridine	1.032	1.126	-9.1	52	0.00	16.81
98	t	Dibenz[a,h]anthracene	1.156	1.265	-9.4	53	0.00	17.12
			True	Calc.	% Drift			
99	t	7,12-Dimethylbenz(a)anthr	25.000	15.653	37.4#	31	-0.01	15.20
			AvgRF	CCRF	% Dev			
100	t	Benzo[g,h,i]perylene	1.096	1.188	-8.4	52	0.01	17.44

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p98615.d M2P4365.M Mon Jan 18 03:02:00 2021

Continuing Calibration Summary

Job Number: JD18939 **Sample:** E2P4412-CC4366
Account: LBGNJ WSP USA **Lab FileID:** 2P98983.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\jeryllr\e2p4412\2p98983.d Vial: 3
Acq On : 15 Jan 2021 1:11 pm Operator: hennys
Sample : cc4366-25 Inst : MS2P
Misc : op30791,e2p4412,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P4365.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Dec 31 03:26:22 2020
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
101 I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	57	0.00	4.43
102	Benzaldehyde	1.158	1.039	10.3	50#	0.00	4.12
109 I	Phenanthrene-d10a	1.000	1.000	0.0	59	0.00	9.46
110	Pentachloronitrobenzene	0.045	0.049#	-8.9	66	0.00	9.24
111	Atrazine	0.096	0.095	1.0	57	0.00	9.15

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p98615.d M2P4365.M Mon Jan 18 03:02:05 2021

Continuing Calibration Summary

Job Number: JD18939 **Sample:** E2P4412-CC4367
Account: LBGNJ WSP USA **Lab FileID:** 2P98984.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\jeryllr\e2p4412\2p98984.d Vial: 4
Acq On : 15 Jan 2021 1:37 pm Operator: hennys
Sample : cc4367-25 Inst : MS2P
Misc : op30791,e2p4412,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P4365.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Dec 31 03:26:22 2020
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
103 I	Naphthalene-d8a	1.000	1.000	0.0	80	0.00	5.42
		True	Calc.	% Drift			
104	Hydroquinone	25.000	22.458	10.2	71	0.00	5.87
		AvgRF	CCRF	% Dev			
105 I	Acenaphthene-d10a	1.000	1.000	0.0	82	0.00	7.34
106	1,2,4,5-Tetrachlorobenzen	0.598	0.594	0.7	82	0.00	6.30
107 I	Chrysene-d12a	1.000	1.000	0.0	85	0.00	13.62
108	Benzidine	0.698	0.575	17.6	67	0.00	11.62
117 I	Phenanthrene-d10b	1.000	1.000	0.0	83	0.00	9.46
118 s	1-Chlorooctadecane	0.406	0.488	-20.2#	95	-0.06	11.33
119 s	o-terphenyl	0.551	0.556	-0.9	82	-0.06	10.10

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p98615.d M2P4365.M Mon Jan 18 03:02:08 2021

Run Sequence Report

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Run ID: E2P4365	**Method:** SW846 8270E	**Instrument ID:** GCMS2P

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
E2P4365-DFTPP	2P97989.D	12/03/20 16:26	n/a	DFTPP Tune
E2P4365-IC4365	2P97990.D	12/03/20 16:46	n/a	Initial cal 1
E2P4365-IC4365	2P97991.D	12/03/20 17:14	n/a	Initial cal 2
E2P4365-IC4365	2P97992.D	12/03/20 17:40	n/a	Initial cal 5
E2P4365-IC4365	2P97993.D	12/03/20 18:07	n/a	Initial cal 10
E2P4365-IC4365	2P97994.D	12/03/20 18:35	n/a	Initial cal 25
E2P4365-ICC4365	2P97995.D	12/03/20 19:01	n/a	Initial cal 50
E2P4365-IC4365	2P97996.D	12/03/20 19:27	n/a	Initial cal 80
E2P4365-IC4365	2P97997.D	12/03/20 19:54	n/a	Initial cal 100
E2P4365-ICV4365	2P97998.D	12/03/20 20:20	n/a	Initial cal verification 50
E2P4365-ICV4365	2P97999.D	12/03/20 20:46	n/a	Initial cal verification 50
E2P4365-ICV4365	2P98000.D	12/03/20 21:12	n/a	Initial cal verification 50
E2P4365-ICV4365	2P98001.D	12/03/20 21:38	n/a	Initial cal verification 50

Run Sequence Report

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Run ID: E2P4366	**Method:** SW846 8270E	**Instrument ID:** GCMS2P

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
E2P4366-DFTPP	2P98002.D	12/03/20 22:01	n/a	DFTPP Tune
E2P4366-IC4366	2P98003.D	12/03/20 22:13	n/a	Initial cal 100
E2P4366-IC4366	2P98004.D	12/03/20 22:39	n/a	Initial cal 80
E2P4366-ICC4366	2P98005.D	12/03/20 23:05	n/a	Initial cal 50
E2P4366-IC4366	2P98006.D	12/03/20 23:31	n/a	Initial cal 25
E2P4366-IC4366	2P98007.D	12/03/20 23:57	n/a	Initial cal 10
E2P4366-IC4366	2P98008.D	12/04/20 00:23	n/a	Initial cal 5
E2P4366-IC4366	2P98009.D	12/04/20 00:50	n/a	Initial cal 2
E2P4366-IC4366	2P98010.D	12/04/20 01:16	n/a	Initial cal 1

Run Sequence Report

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Run ID: E2P4367	**Method:** SW846 8270E	**Instrument ID:** GCMS2P

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
E2P4367-DFTPP	2P98012.D	12/04/20 02:05	n/a	DFTPP Tune
E2P4367-IC4367	2P98013.D	12/04/20 02:16	n/a	Initial cal 100
E2P4367-IC4367	2P98014.D	12/04/20 02:42	n/a	Initial cal 80
E2P4367-ICC4367	2P98015.D	12/04/20 03:08	n/a	Initial cal 50
E2P4367-IC4367	2P98016.D	12/04/20 03:34	n/a	Initial cal 25
E2P4367-IC4367	2P98017.D	12/04/20 04:00	n/a	Initial cal 10
E2P4367-IC4367	2P98018.D	12/04/20 04:26	n/a	Initial cal 5
E2P4367-IC4367	2P98019.D	12/04/20 04:53	n/a	Initial cal 2
E2P4367-IC4367	2P98020.D	12/04/20 05:19	n/a	Initial cal 1
E2P4367-ICV4367	2P98021.D	12/04/20 05:45	n/a	Initial cal verification 50
E2P4367-ICV4367	2P98022.D	12/04/20 06:11	n/a	Initial cal verification 50
E2P4367-ICV4366	2P98023A.D	12/04/20 06:37	n/a	Initial cal verification 50
E2P4367-ICV4367	2P98023.D	12/04/20 06:37	n/a	Initial cal verification 50

Run Sequence Report

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Run ID: E2P4412	**Method:** SW846 8270E	**Instrument ID:** GCMS2P

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
E2P4412-DFTPP	2P98981.D	01/15/21 12:35	n/a	DFTPP Tune
E2P4412-CC4365	2P98982.D	01/15/21 12:45	n/a	Continuing cal 25
E2P4412-CC4366	2P98983.D	01/15/21 13:11	n/a	Continuing cal 25
E2P4412-CC4367	2P98984.D	01/15/21 13:37	n/a	Continuing cal 25
OP31540-MB1	2P98985.D	01/15/21 14:46	OP31540	Method Blank
OP31540-BS1	2P98987.D	01/15/21 15:41	OP31540	Blank Spike
OP31540-BSD	2P98988.D	01/15/21 16:33	OP31540	Blank Spike Duplicate
ZZZZZZ	2P98989.D	01/15/21 16:59	OP31540	(unrelated sample)
ZZZZZZ	2P98990.D	01/15/21 17:24	OP31540	(unrelated sample)
ZZZZZZ	2P98991.D	01/15/21 17:50	OP31540	(unrelated sample)
ZZZZZZ	2P98992.D	01/15/21 18:16	OP31540	(unrelated sample)
ZZZZZZ	2P98993.D	01/15/21 18:42	OP31540	(unrelated sample)
ZZZZZZ	2P98994.D	01/15/21 19:08	OP31540	(unrelated sample)
ZZZZZZ	2P98995.D	01/15/21 19:34	OP31540	(unrelated sample)
JD18939-1	2P98996.D	01/15/21 20:00	OP31540	S-10R
ZZZZZZ	2P98997.D	01/15/21 20:26	OP31540	(unrelated sample)
ZZZZZZ	2P98998.D	01/15/21 20:52	OP31540	(unrelated sample)
ZZZZZZ	2P98999.D	01/15/21 21:18	OP31540	(unrelated sample)
JD18939-2	2P99000.D	01/15/21 21:44	OP31540	S-15R
JD18939-3	2P99001.D	01/15/21 22:09	OP31540	S-18R
OP31540-MS	2P99002.D	01/15/21 22:35	OP31540	Matrix Spike
OP31540-MSD	2P99003.D	01/15/21 23:01	OP31540	Matrix Spike Duplicate
JD18961-8	2P99004.D	01/15/21 23:27	OP31540	(used for QC only; not part of job JD18939)
ZZZZZZ	2P99005.D	01/15/21 23:53	OP31540	(unrelated sample)

MS Semi-volatiles

Raw Data

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98996.d
Acq On : 15 Jan 2021 8:00 pm
Operator : hennys
Sample : jd18939-1 Inst : MS2P
Misc : op31540,e2p4412,30.9,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Results File: M2P4365.RES
Quant Time: Jan 18 03:52:18 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jan 18 03:08:11 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.434	152	494066	40.00	ppm	0.00
24) Naphthalene-d8	5.419	136	1732980	40.00	ppm	0.00
47) Acenaphthene-d10	7.344	164	976985	40.00	ppm	0.00
69) Phenanthrene-d10	9.462	188	1583724	40.00	ppm	0.00
83) Chrysene-d12	13.623	240	1425848	40.00	ppm	0.00
91) Perylene-d12	15.736	264	1500111	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.434	152	494066	40.00	ppm	0.00
103) Naphthalene-d8a	5.419	136	1732980	40.00	ppm	0.00
105) Acenaphthene-d10a	7.344	164	976985	40.00	ppm	0.00
107) Chrysene-d12a	13.623	240	1425848	40.00	ppm	0.00
109) Phenanthrene-d10a	9.462	188	1583724	40.00	ppm	0.00
112) 1,4-Dichlorobenzene-d4b	4.434	152	494066	40.00	ppm	0.00
115) Acenaphthene-d10b	7.344	164	976985	40.00	ppm	0.00
117) Phenanthrene-d10b	9.462	188	1583724	40.00	ppm	0.00
120) Chrysene-d12b	13.623	240	1425848	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.520	112	435867	25.89	ppm	0.02
Spiked Amount 50.000	Range 11 - 58		Recovery = 51.78%			
8) Phenol-d5	4.226	99	535604	25.12	ppm	0.00
Spiked Amount 50.000	Range 10 - 59		Recovery = 50.24%			
25) Nitrobenzene-d5	4.841	82	671342	34.51	ppm	0.00
Spiked Amount 50.000	Range 19 - 61		Recovery = 69.02%#			
51) 2-Fluorobiphenyl	6.526	172	935751	29.12	ppm	0.00
Spiked Amount 50.000	Range 21 - 58		Recovery = 58.24%#			
73) 2,4,6-Tribromophenol	8.451	330	184125	32.15	ppm	0.00
Spiked Amount 50.000	Range 12 - 68		Recovery = 64.30%			
85) Terphenyl-d14	12.013	244	1250491	37.66	ppm	0.00
Spiked Amount 50.000	Range 16 - 65		Recovery = 75.32%#			
118) 1-Chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000	Range 15 - 64		Recovery = 0.00%#			
119) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000	Range 15 - 64		Recovery = 0.00%#			
Target Compounds						Qvalue
38) Naphthalene	5.435	128	20460	0.47	ppm	99
44) 2-Methylnaphthalene	6.114	141	4307	0.19	ppm	90
56) Acenaphthylene	7.157	152	56256	1.26	ppm	98
59) Acenaphthene	7.387	153	5583	0.19	ppm	91
62) Dibenzofuran	7.628	168	5847	0.15	ppm	91
66) Fluorene	8.098	166	11160	0.35	ppm	96
77) Phenanthrene	9.494	178	148089	3.52	ppm	99
78) Anthracene	9.575	178	51864	1.23	ppm	99
79) Carbazole	9.874	167	11263	0.28	ppm	96
81) Fluoranthene	11.340	202	415366	8.99	ppm	99
84) Pyrene	11.682	202	434333	10.27	ppm	99
87) Benzo[a]anthracene	13.607	228	243560	5.88	ppm	99
89) Chrysene	13.656	228	239895	6.04	ppm	96
93) Benzo[b]fluoranthene	15.217	252	314425	7.02	ppm	98
94) Benzo[k]fluoranthene	15.249	252	102775	2.49	ppm	94
95) Benzo[a]pyrene	15.651	252	223256	5.74	ppm	98
96) Indeno[1,2,3-cd]pyrene	17.095	276	152310	3.65	ppm	96
98) Dibenz[a,h]anthracene	17.116	278	41167	0.95	ppm	99
100) Benzo[g,h,i]perylene	17.437	276	144831	3.52	ppm	98

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98996.d
Acq On : 15 Jan 2021 8:00 pm
Operator : hennys
Sample : jd18939-1 Inst : MS2P
Misc : op31540,e2p4412,30.9,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Results File: M2P4365.RES
Quant Time: Jan 18 03:52:18 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jan 18 03:08:11 2021
Response via : Initial Calibration

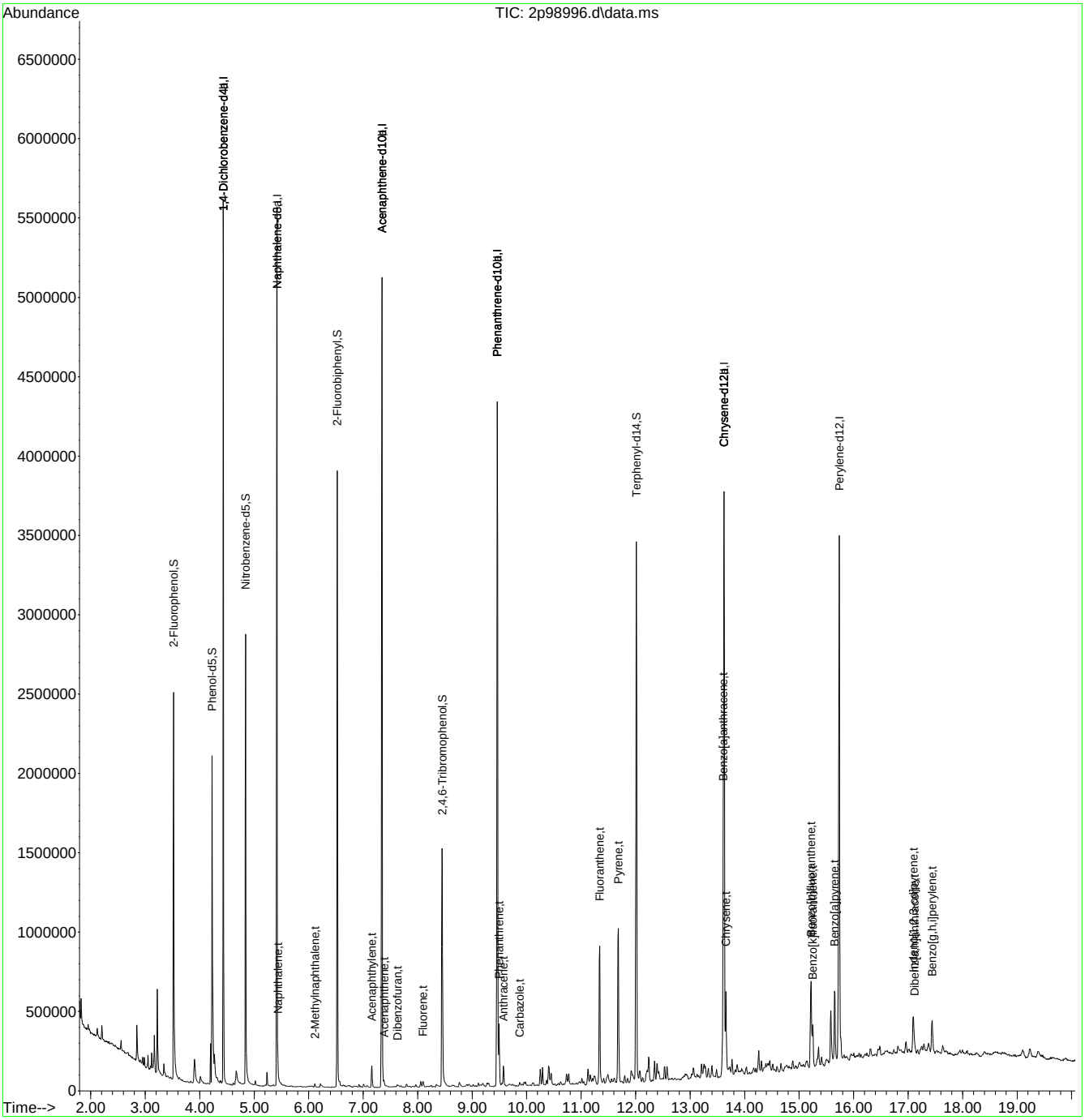
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

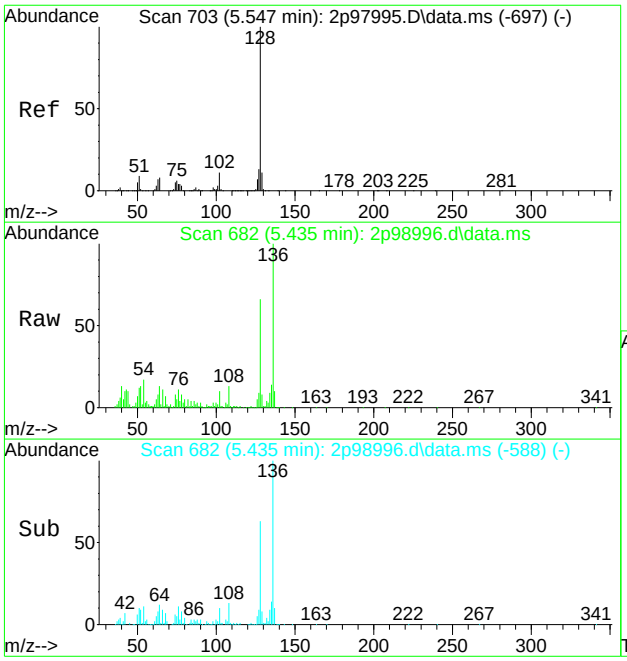
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98996.d
Acq On : 15 Jan 2021 8:00 pm
Operator : hennys
Sample : jd18939-1 Inst : MS2P
Misc : op31540,e2p4412,30.9,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Results File: M2P4365.RES
Quant Time: Jan 18 03:52:18 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jan 18 03:08:11 2021
Response via : Initial Calibration

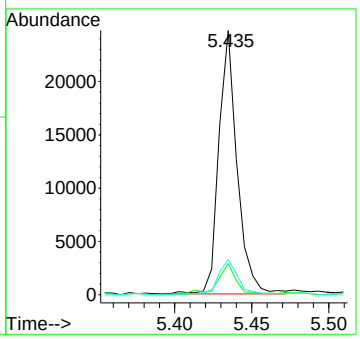


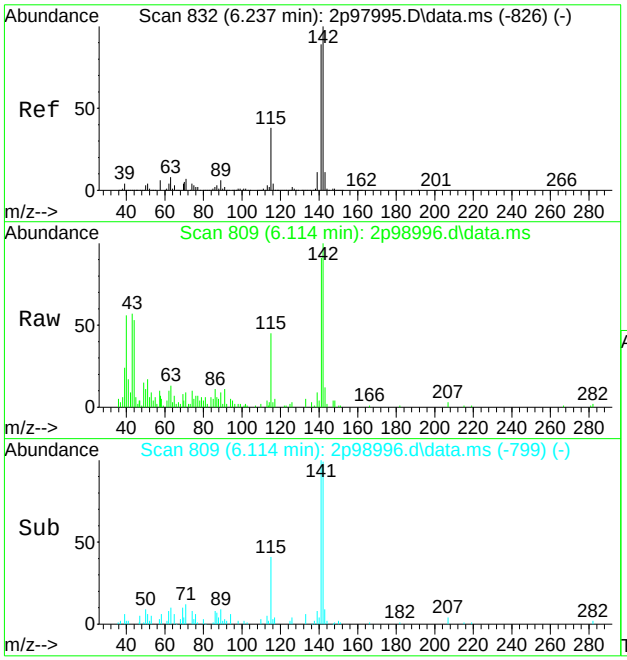


#38
Naphthalene
Concen: 0.47 ppm
RT: 5.435 min Scan# 682
Delta R.T. 0.000 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:128 Resp: 20460

Ion	Ratio	Lower	Upper
128	100		
129	11.6	0.0	41.2
127	13.3	0.0	43.7

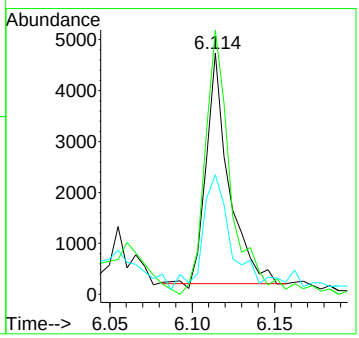


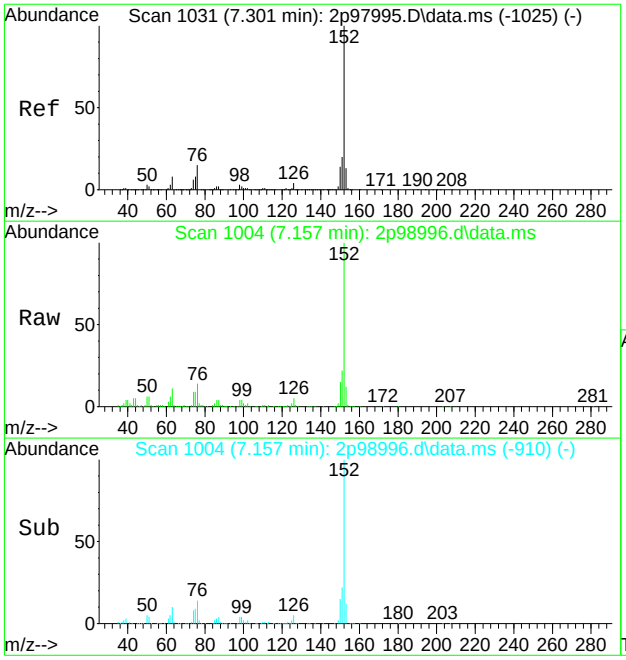


#44
2-Methylnaphthalene
Concen: 0.19 ppm
RT: 6.114 min Scan# 809
Delta R.T. 0.006 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:141 Resp: 4307

Ion	Ratio	Lower	Upper
141	100		
142	111.7	88.6	148.6
115	45.0	27.1	87.1

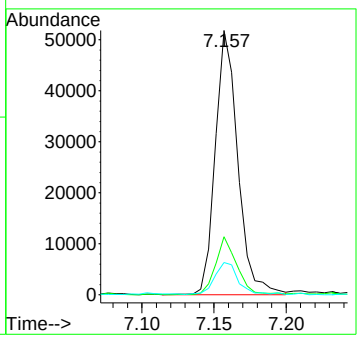


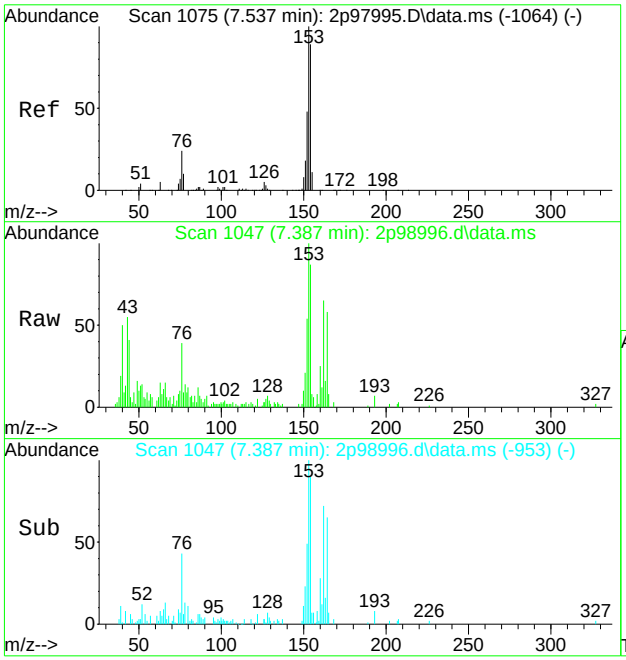


#56
Acenaphthylene
Concen: 1.26 ppm
RT: 7.157 min Scan# 1004
Delta R.T. 0.000 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:152 Resp: 56256

Ion	Ratio	Lower	Upper
152	100		
151	21.8	0.0	50.7
153	12.0	0.0	42.9

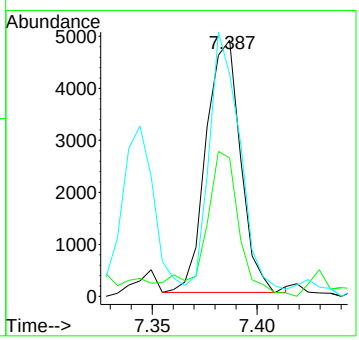


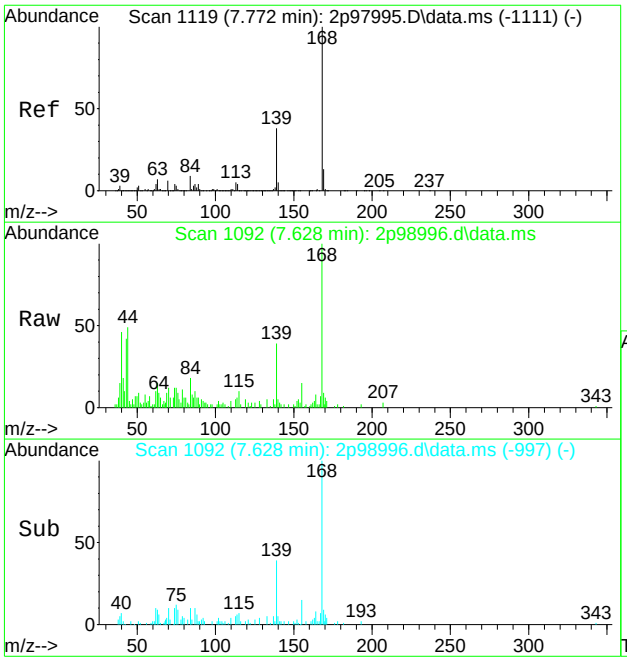


#59
Acenaphthene
Concen: 0.19 ppm
RT: 7.387 min Scan# 1047
Delta R.T. 0.000 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:153 Resp: 5583

Ion	Ratio	Lower	Upper
153	100		
152	52.1	18.0	78.0
154	80.8	60.1	120.1

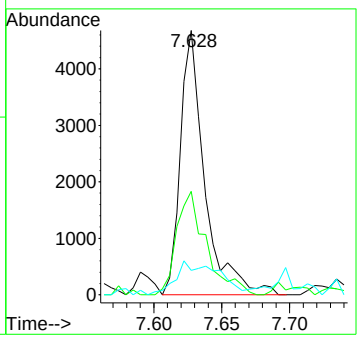


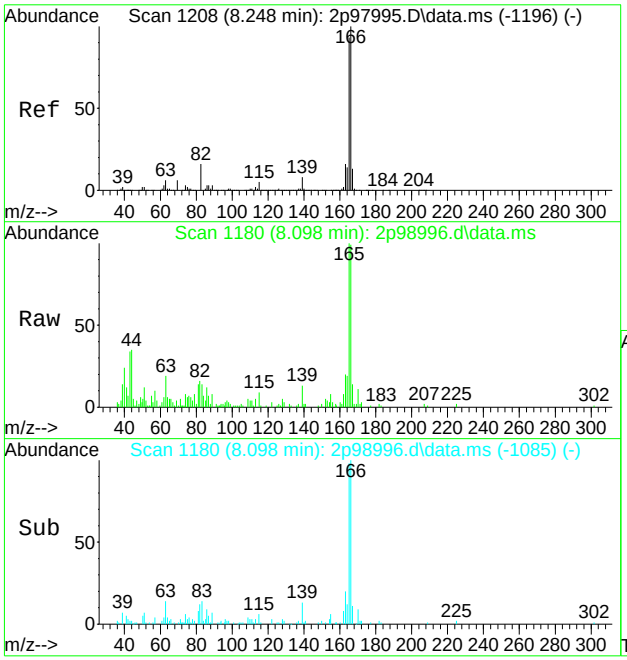


#62
Dibenzofuran
Concen: 0.15 ppm
RT: 7.628 min Scan# 1092
Delta R.T. 0.006 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:168 Resp: 5847

Ion	Ratio	Lower	Upper
168	100		
139	37.1	10.6	70.6
169	5.2	0.0	42.9

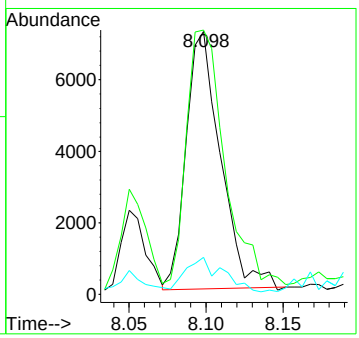


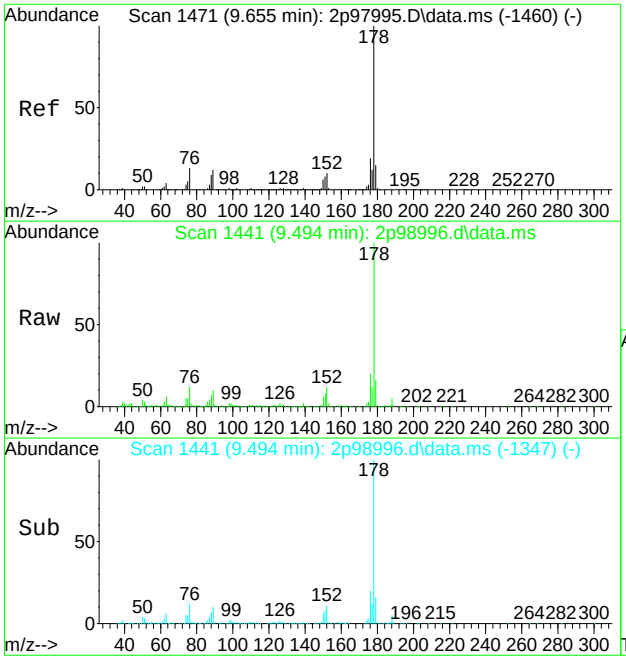


#66
Fluorene
Concen: 0.35 ppm
RT: 8.098 min Scan# 1180
Delta R.T. 0.006 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:166 Resp: 11160

Ion	Ratio	Lower	Upper
166	100		
165	99.7	65.3	125.3
167	11.9	0.0	43.3

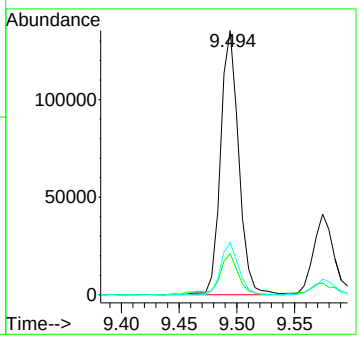


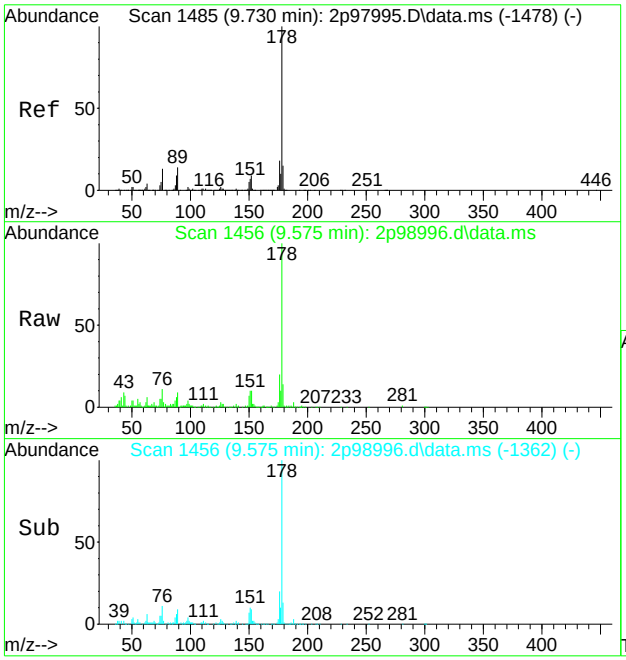


#77
Phenanthrene
Concen: 3.52 ppm
RT: 9.494 min Scan# 1441
Delta R.T. 0.000 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:178 Resp: 148089

Ion	Ratio	Lower	Upper
178	100		
179	15.5	0.0	44.9
176	19.9	0.0	49.2

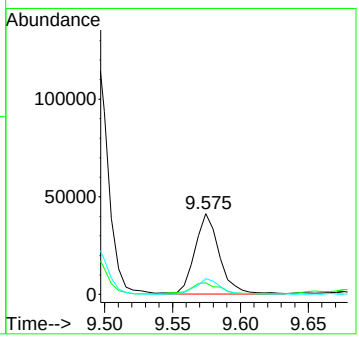


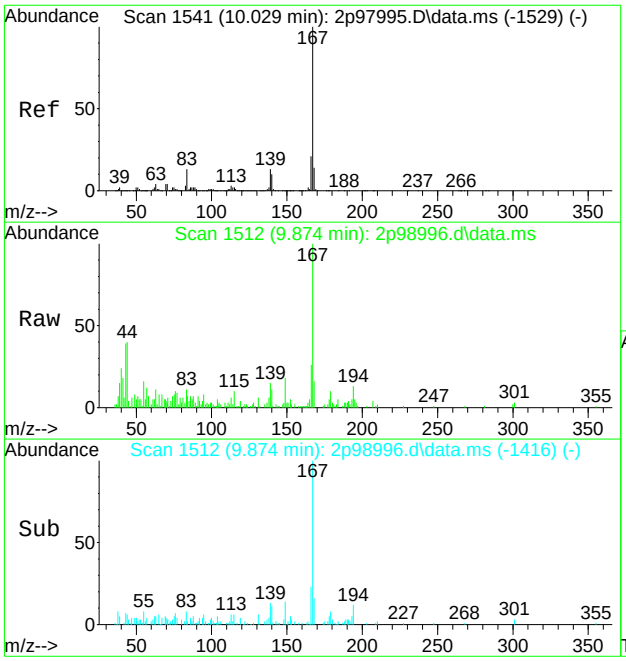


#78
Anthracene
Concen: 1.23 ppm
RT: 9.575 min Scan# 1456
Delta R.T. 0.000 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:178 Resp: 51864

Ion	Ratio	Lower	Upper
178	100		
179	13.8	0.0	44.8
176	19.4	0.0	49.1

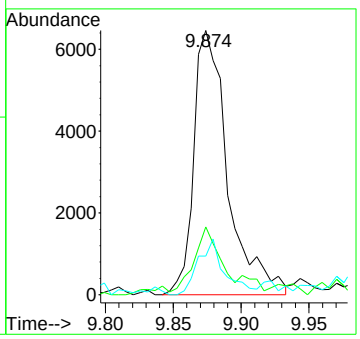


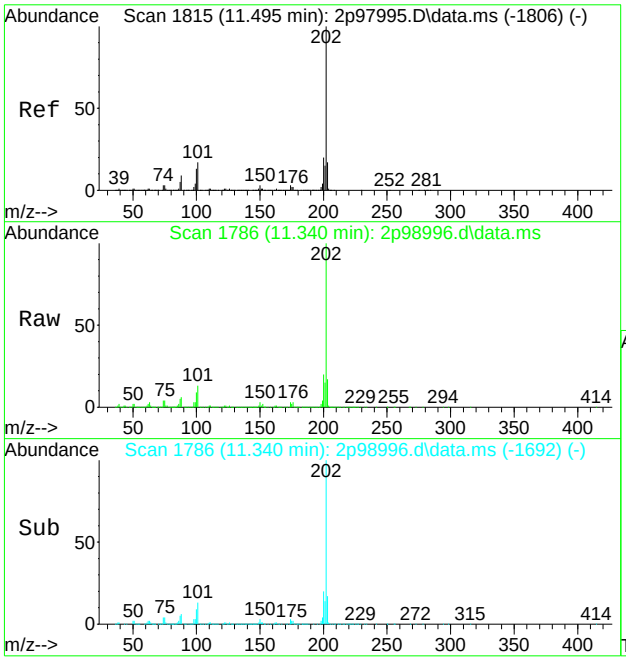


#79
Carbazole
Concen: 0.28 ppm
RT: 9.874 min Scan# 1512
Delta R.T. 0.011 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:167 Resp: 11263

Ion	Ratio	Lower	Upper
167	100		
166	22.7	0.0	51.3
139	12.5	0.0	44.4

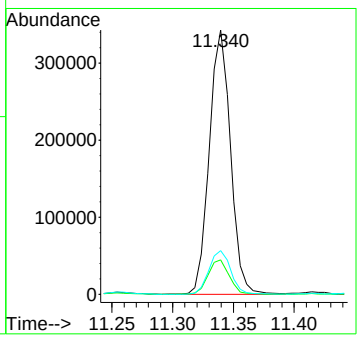


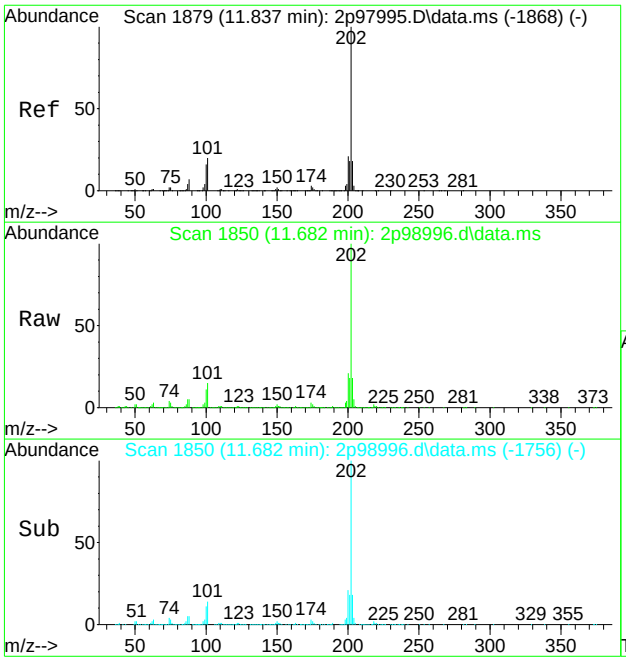


#81
Fluoranthene
Concen: 8.99 ppm
RT: 11.340 min Scan# 1786
Delta R.T. 0.000 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:202 Resp: 415366

Ion	Ratio	Lower	Upper
202	100		
101	13.0	0.0	43.7
203	16.6	0.0	46.5

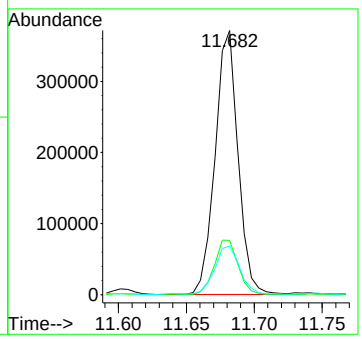


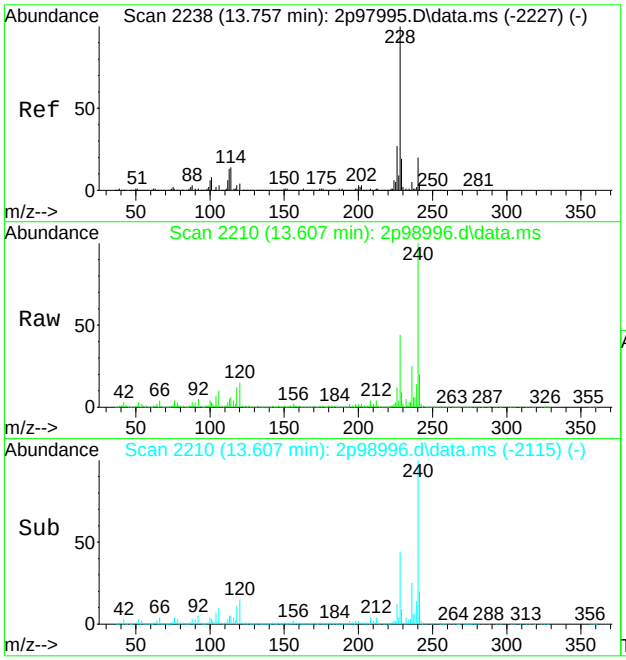


#84
Pyrene
Concen: 10.27 ppm
RT: 11.682 min Scan# 1850
Delta R.T. 0.000 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:202 Resp: 434333

Ion	Ratio	Lower	Upper
202	100		
200	20.5	0.0	50.9
203	18.2	0.0	47.9

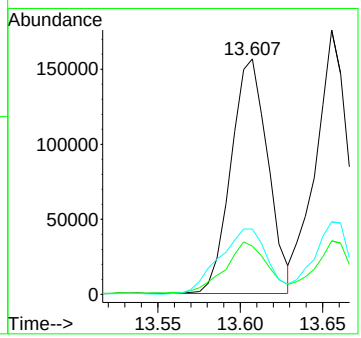


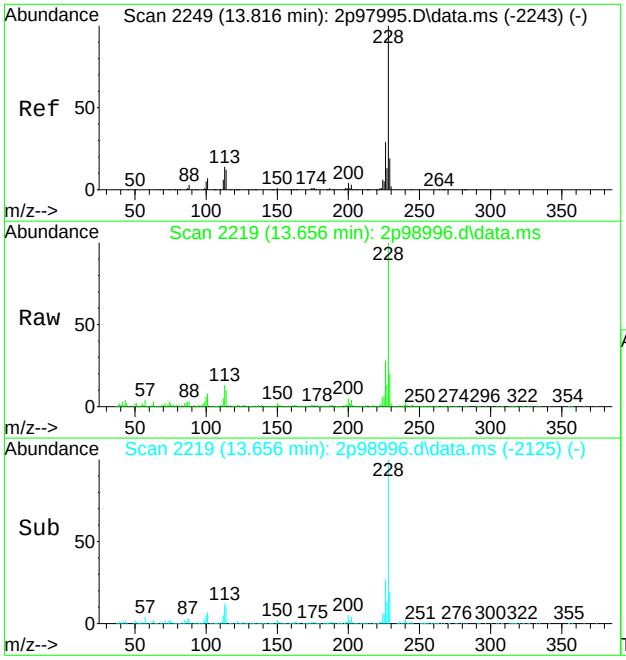


#87
Benzo[a]anthracene
Concen: 5.88 ppm
RT: 13.607 min Scan# 2210
Delta R.T. 0.006 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:228 Resp: 243560

Ion	Ratio	Lower	Upper
228	100		
229	19.4	0.0	50.0
226	27.2	0.0	56.8

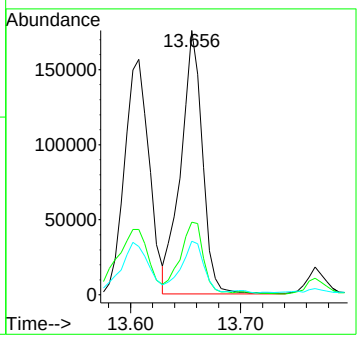


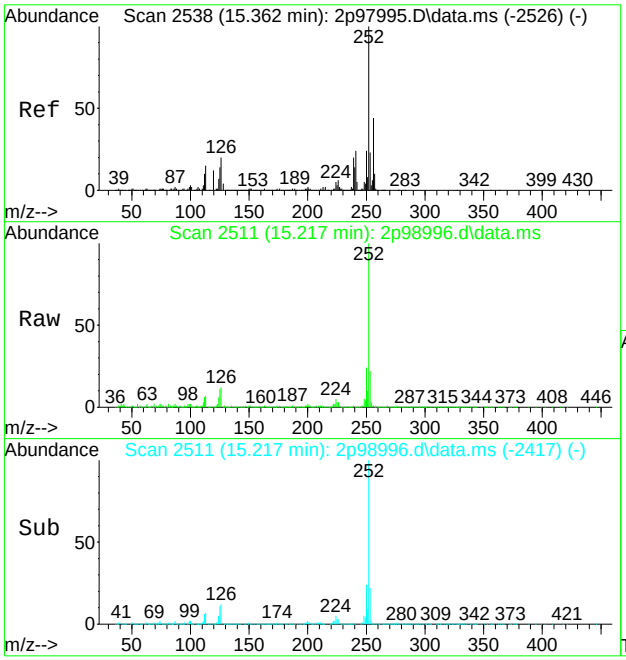


#89
Chrysene
Concen: 6.04 ppm
RT: 13.656 min Scan# 2219
Delta R.T. 0.000 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:228 Resp: 239895

Ion	Ratio	Lower	Upper
228	100		
226	26.9	0.3	60.3
229	19.0	0.0	49.6

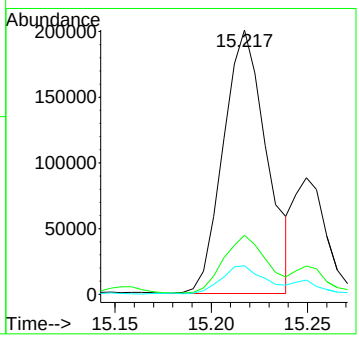


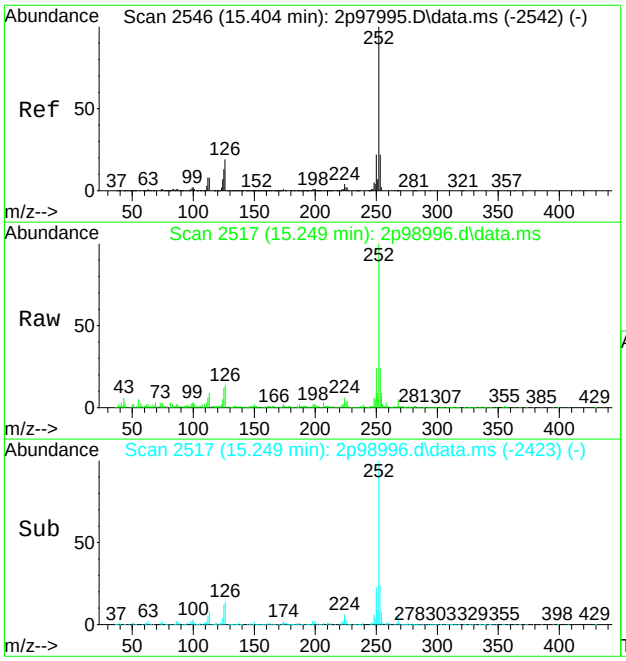


#93
Benzo[b]fluoranthene
Concen: 7.02 ppm
RT: 15.217 min Scan# 2511
Delta R.T. 0.000 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:252 Resp: 314425

Ion	Ratio	Lower	Upper
252	100		
253	22.1	0.0	51.4
125	10.5	0.0	39.2

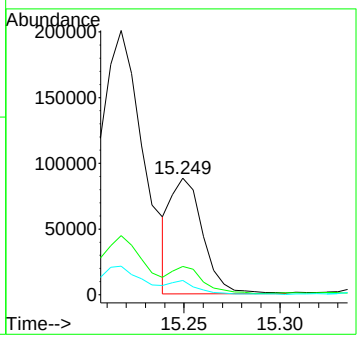


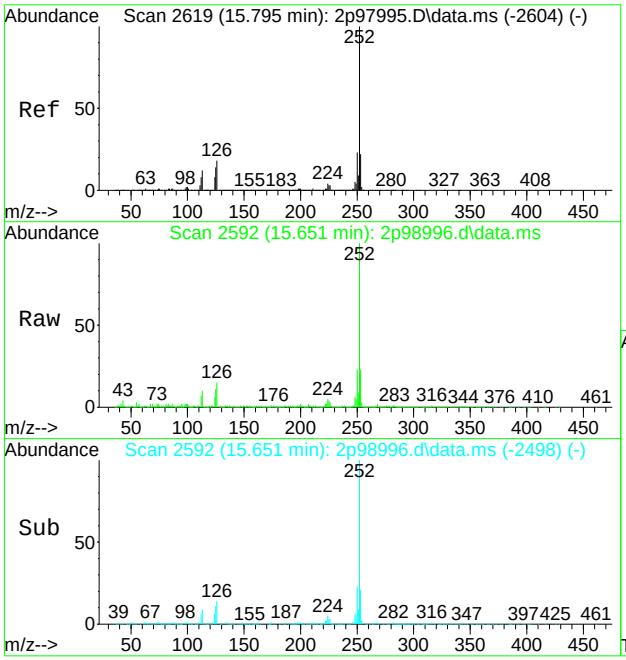


#94
Benzo[k]fluoranthene
Concen: 2.49 ppm
RT: 15.249 min Scan# 2517
Delta R.T. 0.000 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:252 Resp: 102775

Ion	Ratio	Lower	Upper
252	100		
253	24.5	0.0	51.6
125	12.5	0.0	40.9

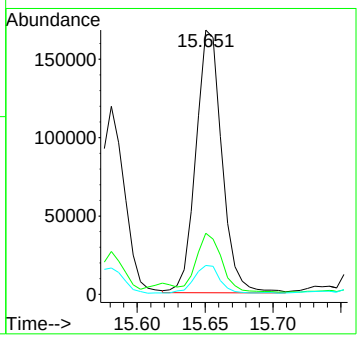


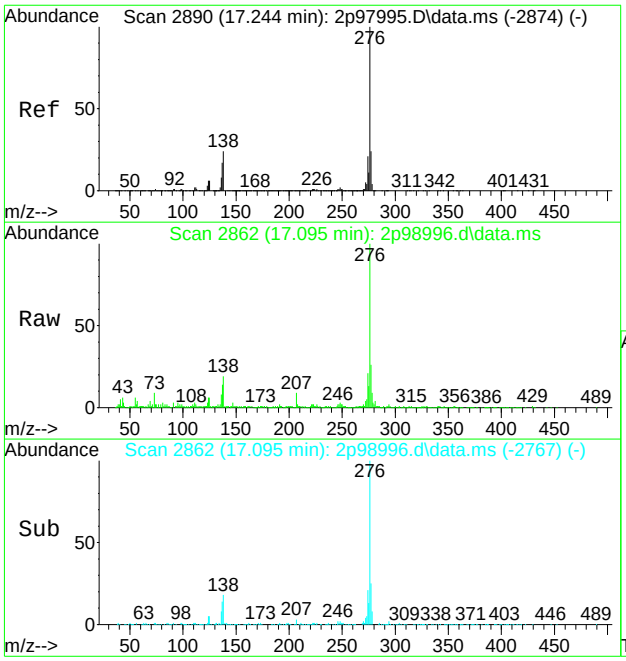


#95
Benzo[a]pyrene
Concen: 5.74 ppm
RT: 15.651 min Scan# 2592
Delta R.T. 0.000 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:252 Resp: 223256

Ion	Ratio	Lower	Upper
252	100		
253	20.8	0.0	51.7
125	10.6	0.0	41.0

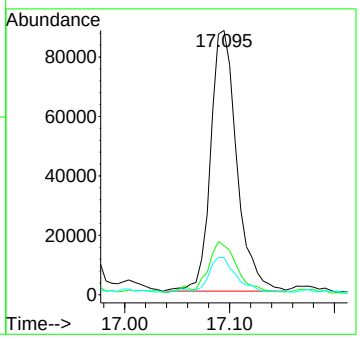


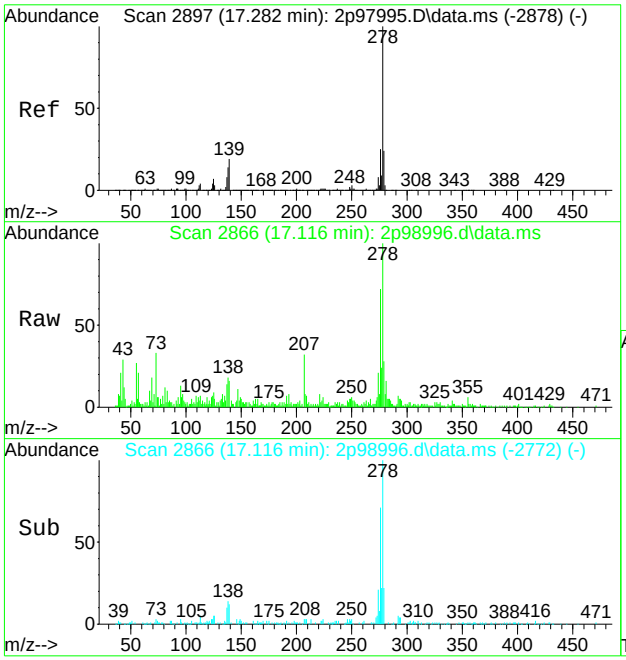


#96
Indeno[1,2,3-cd]pyrene
Concen: 3.65 ppm
RT: 17.095 min Scan# 2862
Delta R.T. 0.006 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:276 Resp: 152310

Ion	Ratio	Lower	Upper
276	100		
138	17.8	0.0	49.6
137	12.7	0.0	44.3

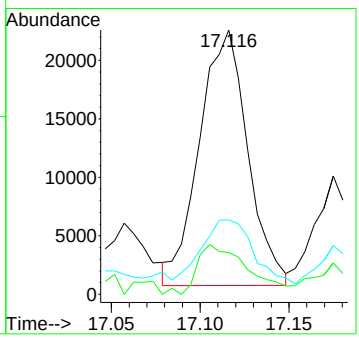


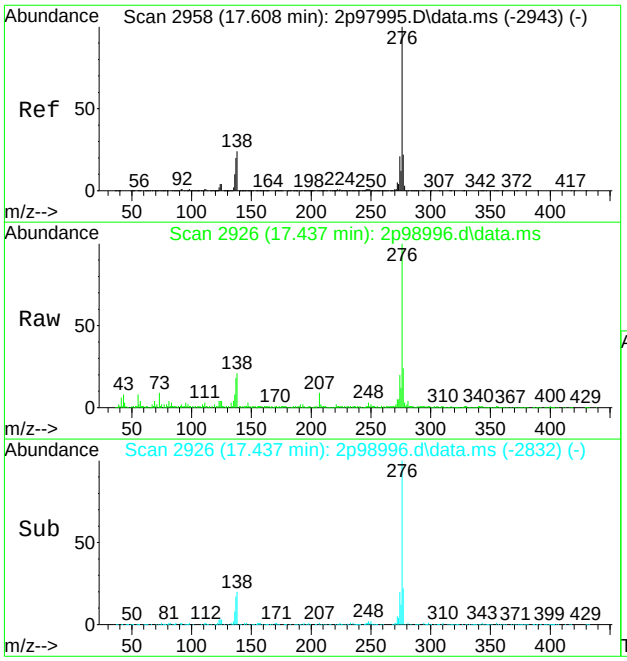


#98
Dibenz[a,h]anthracene
Concen: 0.95 ppm
RT: 17.116 min Scan# 2866
Delta R.T. 0.000 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:278 Resp: 41167

Ion	Ratio	Lower	Upper
278	100		
139	15.8	0.0	45.6
279	23.0	0.0	53.3

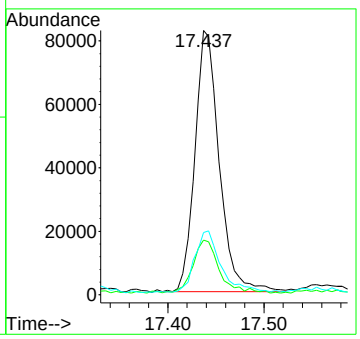




#100
Benzo[g,h,i]perylene
Concen: 3.52 ppm
RT: 17.437 min Scan# 2926
Delta R.T. 0.000 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:276 Resp: 144831

Ion	Ratio	Lower	Upper
276	100		
138	20.1	0.0	51.4
277	22.7	0.0	53.7



LSC Area Percent Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98996.d
Acq On : 15 Jan 2021 8:00 pm
Operator : hennys
Sample : jd18939-1
Misc : op31540,e2p4412,30.9,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Title : Semi Volatile Extractables by GC/MS

Signal : TIC: 2p98996.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.824	5	7	23	rVB2	192857	258740	4.76%	0.430%
2	2.119	60	62	74	rVV2	63898	82918	1.52%	0.138%
3	2.204	75	78	89	rVB2	104262	126205	2.32%	0.210%
4	2.557	141	144	152	rVB3	70127	73006	1.34%	0.121%
5	2.846	194	198	208	rVB3	234877	256663	4.72%	0.426%
6	2.985	221	224	229	rVB3	67690	62649	1.15%	0.104%
7	3.049	231	236	241	rVB2	89795	91043	1.67%	0.151%
8	3.119	243	249	252	rBV2	105816	105433	1.94%	0.175%
9	3.167	253	258	263	rVB	235028	241551	4.44%	0.401%
10	3.220	264	268	285	rVB	543213	540664	9.94%	0.898%
11	3.343	287	291	299	rVB2	83801	101928	1.87%	0.169%
12	3.520	319	324	341	rVV	2439632	2183261	40.15%	3.627%
13	3.905	389	396	413	rVB	151594	280128	5.15%	0.465%
14	4.012	413	416	432	rVB	46574	96302	1.77%	0.160%
15	4.199	448	451	453	rBV	257279	155431	2.86%	0.258%
16	4.226	453	456	463	rBV	2058055	1995510	36.70%	3.315%
17	4.269	463	464	472	rVB	150287	149913	2.76%	0.249%
18	4.429	489	494	508	rVB	5574840	4187614	77.01%	6.957%
19	4.670	534	539	559	rVV2	91415	253628	4.66%	0.421%
20	4.841	565	571	598	rVV	2845549	2353392	43.28%	3.910%
21	5.237	641	645	656	rVB	89803	93251	1.71%	0.155%
22	5.419	671	679	700	rVV	5542754	4760396	87.55%	7.908%
23	6.526	877	886	899	rBV	3884451	3411770	62.74%	5.668%
24	7.157	998	1004	1015	rVB	138171	161804	2.98%	0.269%
25	7.344	1029	1039	1059	rBV	5106749	4911712	90.33%	8.160%
26	8.055	1167	1172	1176	rBV5	36823	51893	0.95%	0.086%
27	8.098	1176	1180	1189	rVB2	36311	60297	1.11%	0.100%
28	8.446	1240	1245	1268	rBV	1500068	1894595	34.84%	3.147%
29	8.767	1300	1305	1316	rBV3	29369	56696	1.04%	0.094%
30	9.462	1428	1435	1439	rVV2	4317631	4847321	89.14%	8.053%
31	9.494	1439	1441	1448	rVV	396962	399290	7.34%	0.663%
32	9.575	1448	1456	1467	rVV2	128621	198452	3.65%	0.330%
33	10.248	1576	1582	1586	rBV	104704	123632	2.27%	0.205%
34	10.291	1586	1590	1598	rVB	111379	124242	2.28%	0.206%
35	10.404	1606	1611	1616	rVV2	114193	182316	3.35%	0.303%
36	10.446	1616	1619	1628	rVB	72872	103841	1.91%	0.173%
37	10.730	1665	1672	1676	rBV	66068	104890	1.93%	0.174%
38	10.773	1676	1680	1690	rVB2	67459	94223	1.73%	0.157%
39	11.126	1738	1746	1750	rBV2	103062	154583	2.84%	0.257%
40	11.168	1750	1754	1758	rVB5	44450	56275	1.03%	0.093%

LSC Area Percent Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98996.d
Acq On : 15 Jan 2021 8:00 pm
Operator : hennys
Sample : jd18939-1
Misc : op31540,e2p4412,30.9,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Title : Semi Volatile Extractables by GC/MS

41	11.238	1764	1767	1777	rVB4	54534	133495	2.46%	0.222%
42	11.340	1777	1786	1795	rBV	873826	1153859	21.22%	1.917%
43	11.489	1804	1814	1823	rBV2	57061	150830	2.77%	0.251%
44	11.682	1844	1850	1858	rBV	970563	1238010	22.77%	2.057%
45	11.800	1868	1872	1877	rBV3	47913	67522	1.24%	0.112%
46	11.917	1888	1894	1904	rBV6	78313	215006	3.95%	0.357%
47	12.013	1904	1912	1920	rBV	3387072	3921278	72.11%	6.514%
48	12.072	1920	1923	1929	rVB2	68569	116847	2.15%	0.194%
49	12.211	1939	1949	1951	rBV4	75969	159337	2.93%	0.265%
50	12.238	1951	1954	1961	rVB	154698	207827	3.82%	0.345%
51	12.345	1968	1974	1979	rBV	127538	170448	3.13%	0.283%
52	12.393	1979	1983	1987	rBV	100598	142237	2.62%	0.236%
53	12.425	1987	1989	1997	rVB3	51963	58023	1.07%	0.096%
54	12.532	2005	2009	2013	rVB	78901	100861	1.85%	0.168%
55	12.575	2013	2017	2023	rVB2	86107	110799	2.04%	0.184%
56	12.933	2082	2084	2092	rVB7	33597	59955	1.10%	0.100%
57	13.030	2092	2102	2104	rBV9	35684	67097	1.23%	0.111%
58	13.062	2104	2108	2117	rVB2	59312	93591	1.72%	0.155%
59	13.212	2130	2136	2139	rBV	88658	123574	2.27%	0.205%
60	13.254	2139	2144	2147	rBV2	62532	90283	1.66%	0.150%
61	13.335	2154	2159	2165	rVB3	58645	82025	1.51%	0.136%
62	13.399	2165	2171	2178	rBV	75701	113734	2.09%	0.189%
63	13.484	2184	2187	2192	rVB	53644	62308	1.15%	0.104%
64	13.623	2199	2213	2217	rBV	3692449	5437623	100.00%	9.033%
65	13.656	2217	2219	2226	rVV	505497	574033	10.56%	0.954%
66	13.768	2236	2240	2246	rVB	95314	114041	2.10%	0.189%
67	13.864	2254	2258	2265	rBV4	48296	68866	1.27%	0.114%
68	13.944	2271	2273	2283	rVB4	35422	64887	1.19%	0.108%
69	14.035	2283	2290	2296	rVB6	46689	75887	1.40%	0.126%
70	14.169	2309	2315	2319	rBV7	33399	56786	1.04%	0.094%
71	14.260	2325	2332	2337	rBV	139353	206189	3.79%	0.343%
72	14.308	2337	2341	2345	rVB	68361	77318	1.42%	0.128%
73	14.463	2366	2370	2376	rVB3	62522	90701	1.67%	0.151%
74	14.517	2376	2380	2385	rBV6	41255	53969	0.99%	0.090%
75	14.592	2391	2394	2401	rVB2	35958	53586	0.99%	0.089%
76	14.666	2403	2408	2417	rBV3	52122	84351	1.55%	0.140%
77	14.886	2444	2449	2455	rBV7	51066	70027	1.29%	0.116%
78	15.009	2466	2472	2479	rBV8	32188	78050	1.44%	0.130%
79	15.142	2490	2497	2505	rVB10	43122	107434	1.98%	0.178%
80	15.217	2505	2511	2515	rBV	545805	894386	16.45%	1.486%
81	15.249	2515	2517	2524	rVB	263607	298128	5.48%	0.495%
82	15.356	2527	2537	2542	rBV2	119457	219119	4.03%	0.364%
83	15.410	2544	2547	2556	rVB	60495	102490	1.88%	0.170%
84	15.501	2557	2564	2571	rBV5	43678	131421	2.42%	0.218%
85	15.581	2574	2579	2586	rBV	328009	488016	8.97%	0.811%

LSC Area Percent Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98996.d
Acq On : 15 Jan 2021 8:00 pm
Operator : hennys
Sample : jd18939-1
Misc : op31540,e2p4412,30.9,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Title : Semi Volatile Extractables by GC/MS

86	15.651	2587	2592	2600	rVV	434180	586962	10.79%	0.975%
87	15.736	2600	2608	2620	rVV	3297275	4394558	80.82%	7.300%
88	15.955	2643	2649	2652	rBV7	41169	82597	1.52%	0.137%
89	16.303	2711	2714	2722	rVB4	46842	77621	1.43%	0.129%
90	16.448	2737	2741	2743	rBV5	45548	64101	1.18%	0.106%
91	16.480	2745	2747	2752	rVB2	58863	70782	1.30%	0.118%
92	16.811	2805	2809	2815	rBV7	46772	85888	1.58%	0.143%
93	16.961	2831	2837	2842	rBV4	74420	130348	2.40%	0.217%
94	17.095	2857	2862	2873	rVB3	232403	473137	8.70%	0.786%
95	17.287	2895	2898	2904	rVV3	42656	64416	1.18%	0.107%
96	17.373	2910	2914	2921	rVV9	56990	109809	2.02%	0.182%
97	17.442	2921	2927	2936	rVB	209248	371935	6.84%	0.618%
98	17.635	2958	2963	2969	rBV	51575	97425	1.79%	0.162%
99	19.234	3256	3262	3272	rVB2	51261	125145	2.30%	0.208%
100	19.384	3285	3290	3301	rVB4	32917	87744	1.61%	0.146%

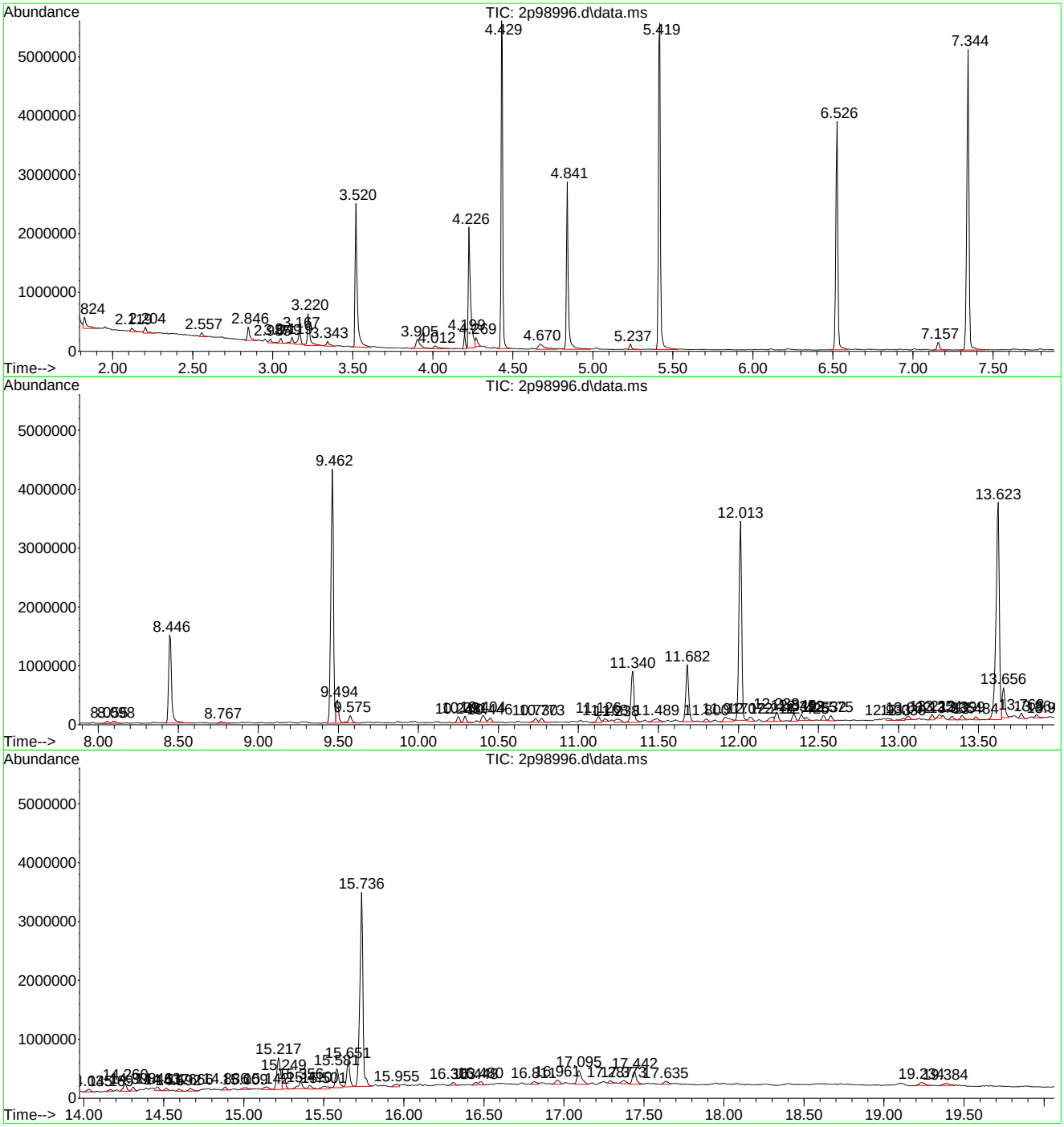
Sum of corrected areas: 60196180

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98996.d
Acq On : 15 Jan 2021 8:00 pm
Operator : hennys
Sample : jd18939-1
Misc : op31540,e2p4412,30.9,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98996.d
Acq On : 15 Jan 2021 8:00 pm
Operator : hennys
Sample : jd18939-1
Misc : op31540,e2p4412,30.9,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

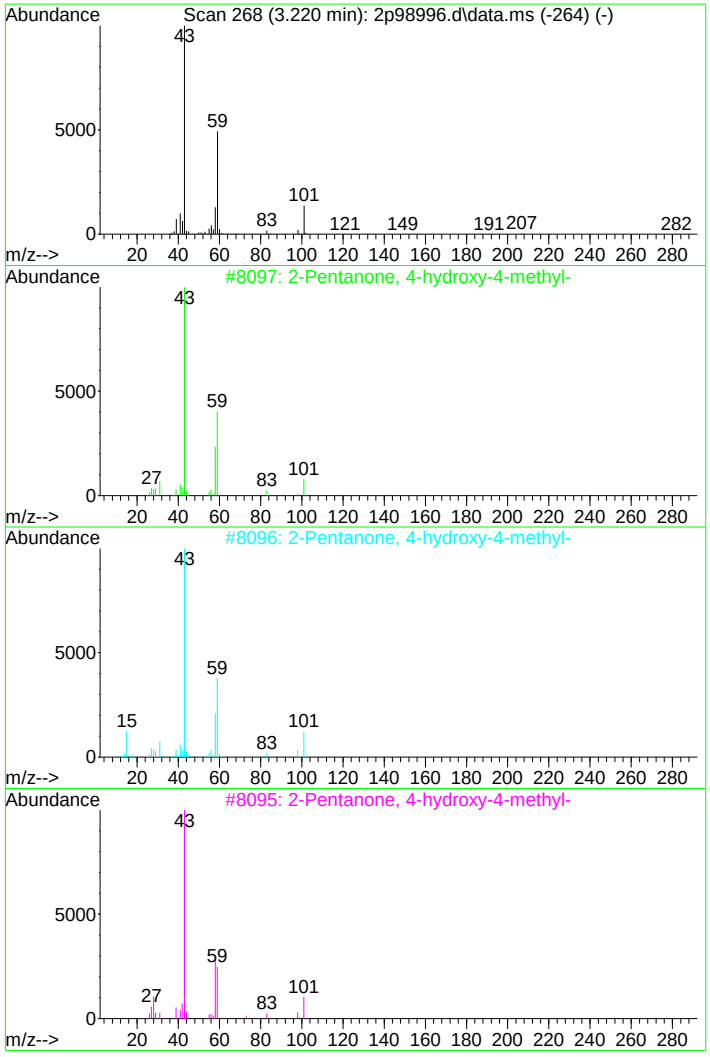
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

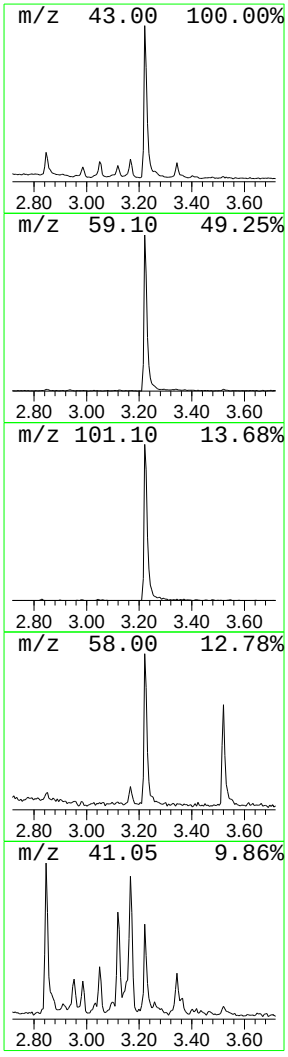
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Peak Number 1 System artifact/aldol-conde... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.220	5.16 ppm	540664	1,4-Dichlorobenzene-d4a	4.434

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
3	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	25
4	1-Butene, 4-ethoxy-	100	C6H12O	044611-46-3	23
5	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98996.d
Acq On : 15 Jan 2021 8:00 pm
Operator : hennys
Sample : jd18939-1
Misc : op31540,e2p4412,30.9,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

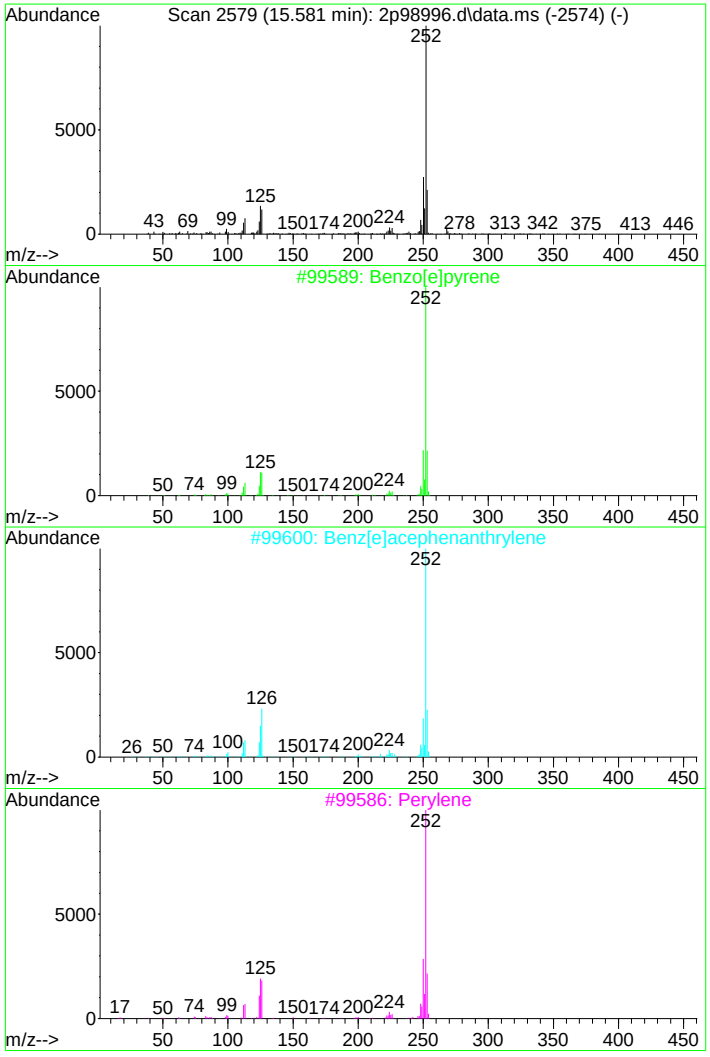
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

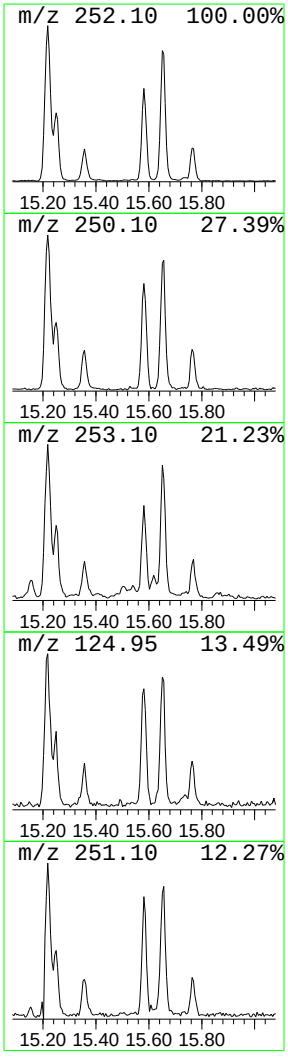
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Peak Number 2 Unknown PAH substance Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.581	4.44 ppm	488016	Perylene-d12	15.736

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	94
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
3	Perylene	252	C20H12	000198-55-0	90
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90
5	Benzo[e]pyrene	252	C20H12	000192-97-2	90





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98996.d
Acq On : 15 Jan 2021 8:00 pm
Operator : hennys
Sample : jd18939-1
Misc : op31540,e2p4412,30.9,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
System artifact...	3.220	5.2	ppm	540664	2	4.434	4187610	40.0
Unknown PAH sub...	15.581	4.4	ppm	488016	15	15.736	4394560	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
01/18/21 10:19

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2 Inst : MS2P
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Results File: M2P4365.RES
Quant Time: Jan 18 04:05:25 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jan 18 03:08:11 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.429	152	350081	40.00	ppm	0.00
24) Naphthalene-d8	5.419	136	1281323	40.00	ppm	0.00
47) Acenaphthene-d10	7.344	164	743837	40.00	ppm	0.00
69) Phenanthrene-d10	9.462	188	1205170	40.00	ppm	0.00
83) Chrysene-d12	13.629	240	1126776	40.00	ppm	0.01
91) Perylene-d12	15.752	264	1255285	40.00	ppm	0.02
101) 1,4-Dichlorobenzene-d4a	4.429	152	350081	40.00	ppm	0.00
103) Naphthalene-d8a	5.419	136	1281323	40.00	ppm	0.00
105) Acenaphthene-d10a	7.344	164	743837	40.00	ppm	0.00
107) Chrysene-d12a	13.629	240	1126776	40.00	ppm	0.01
109) Phenanthrene-d10a	9.462	188	1205170	40.00	ppm	0.00
112) 1,4-Dichlorobenzene-d4b	4.429	152	350081	40.00	ppm	0.00
115) Acenaphthene-d10b	7.344	164	743812	40.00	ppm	0.00
117) Phenanthrene-d10b	9.462	188	1205170	40.00	ppm	0.00
120) Chrysene-d12b	13.629	240	1126776	40.00	ppm	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.515	112	271344	22.75	ppm	0.01
Spiked Amount 50.000	Range 11 - 58		Recovery = 45.50%			
8) Phenol-d5	4.231	99	357172	23.64	ppm	0.01
Spiked Amount 50.000	Range 10 - 59		Recovery = 47.28%			
25) Nitrobenzene-d5	4.841	82	416842	28.98	ppm	0.00
Spiked Amount 50.000	Range 19 - 61		Recovery = 57.96%			
51) 2-Fluorobiphenyl	6.526	172	601750	24.60	ppm	0.00
Spiked Amount 50.000	Range 21 - 58		Recovery = 49.20%			
73) 2,4,6-Tribromophenol	8.451	330	117043	26.86	ppm	0.00
Spiked Amount 50.000	Range 12 - 68		Recovery = 53.72%			
85) Terphenyl-d14	12.014	244	749146	28.55	ppm	0.00
Spiked Amount 50.000	Range 16 - 65		Recovery = 57.10%			
118) 1-Chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000	Range 15 - 64		Recovery = 0.00%#			
119) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000	Range 15 - 64		Recovery = 0.00%#			
Target Compounds						Qvalue
38) Naphthalene	5.435	128	20649	0.65	ppm	98
44) 2-Methylnaphthalene	6.109	141	14634	0.86	ppm	96
53) Biphenyl	6.638	154	7816	0.27	ppm	98
56) Acenaphthylene	7.157	152	51633	1.51	ppm	97
59) Acenaphthene	7.387	153	55897m	2.48	ppm	
62) Dibenzofuran	7.622	168	42865	1.42	ppm	97
66) Fluorene	8.093	166	76595	3.15	ppm	100
77) Phenanthrene	9.500	178	760757	23.74	ppm	99
78) Anthracene	9.575	178	215957	6.73	ppm	99
79) Carbazole	9.869	167	76520	2.54	ppm	99
81) Fluoranthene	11.345	202	1381559	39.28	ppm	99
84) Pyrene	11.687	202	1197101	35.81	ppm	97
87) Benzo[a]anthracene	13.618	228	594358	18.15	ppm	98
89) Chrysene	13.666	228	647144	20.63	ppm	98
90) bis(2-Ethylhexyl)phtha...	13.837	149	51196	2.34	ppm	93
93) Benzo[b]fluoranthene	15.233	252	894896	23.86	ppm	97
94) Benzo[k]fluoranthene	15.265	252	252480	7.30	ppm	94
95) Benzo[a]pyrene	15.672	252	586479	18.01	ppm	97
96) Indeno[1,2,3-cd]pyrene	17.121	276	441450	12.64	ppm	99
98) Dibenz[a,h]anthracene	17.138	278	115840	3.19	ppm	97
100) Benzo[g,h,i]perylene	17.480	276	425144	12.36	ppm	99

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2 Inst : MS2P
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Results File: M2P4365.RES
Quant Time: Jan 18 04:05:25 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jan 18 03:08:11 2021
Response via : Initial Calibration

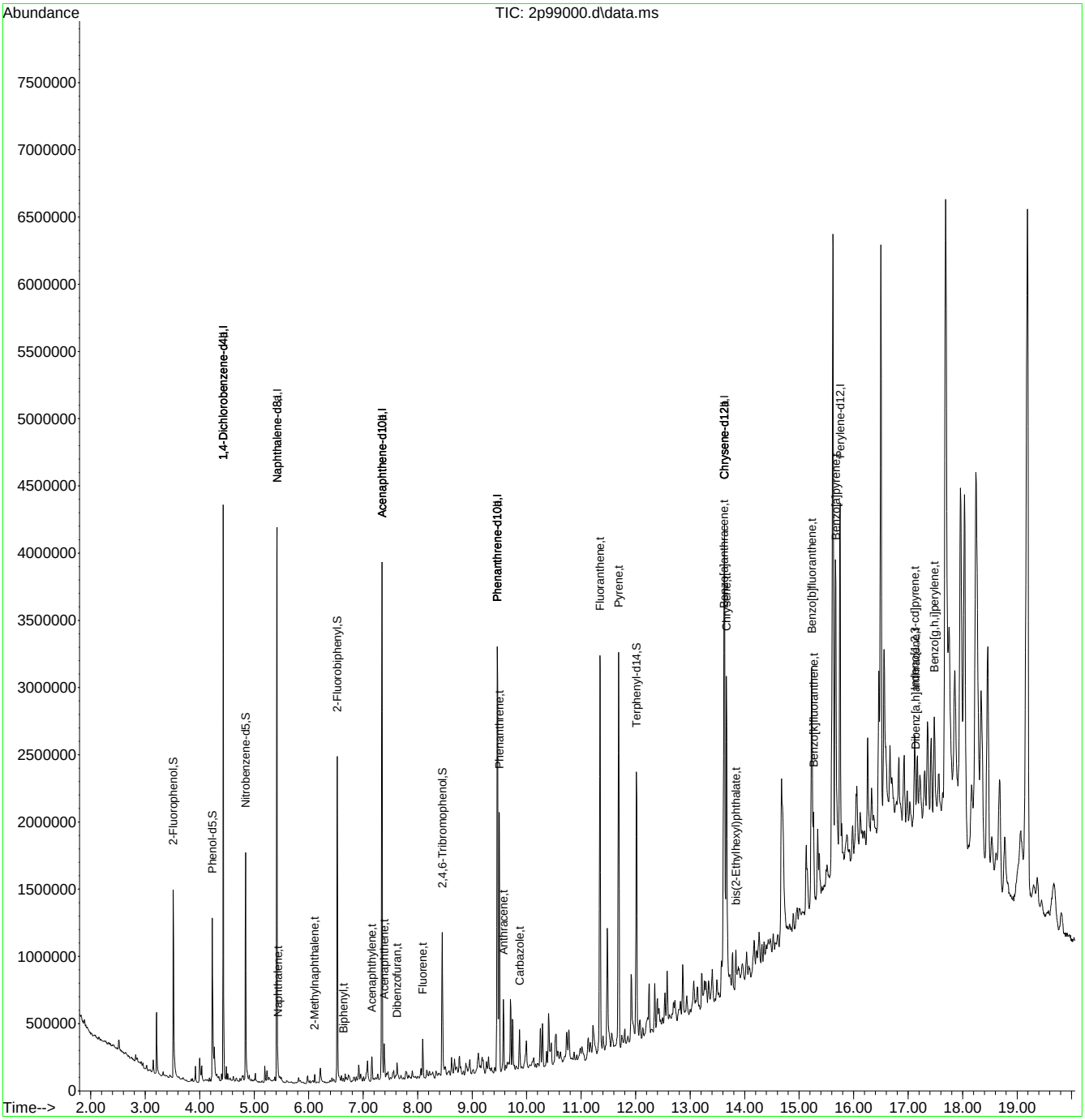
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

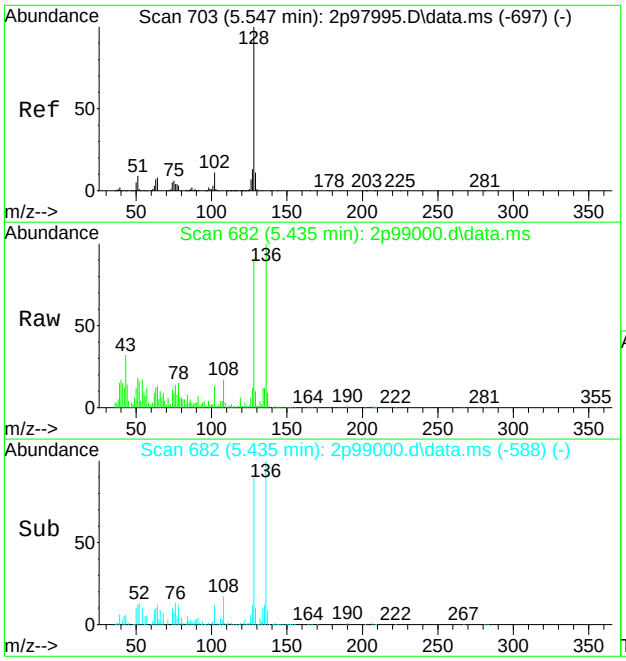
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2 Inst : MS2P
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Results File: M2P4365.RES
Quant Time: Jan 18 04:05:25 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jan 18 03:08:11 2021
Response via : Initial Calibration

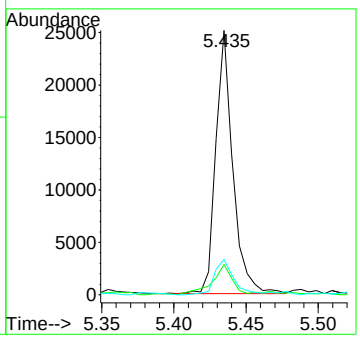


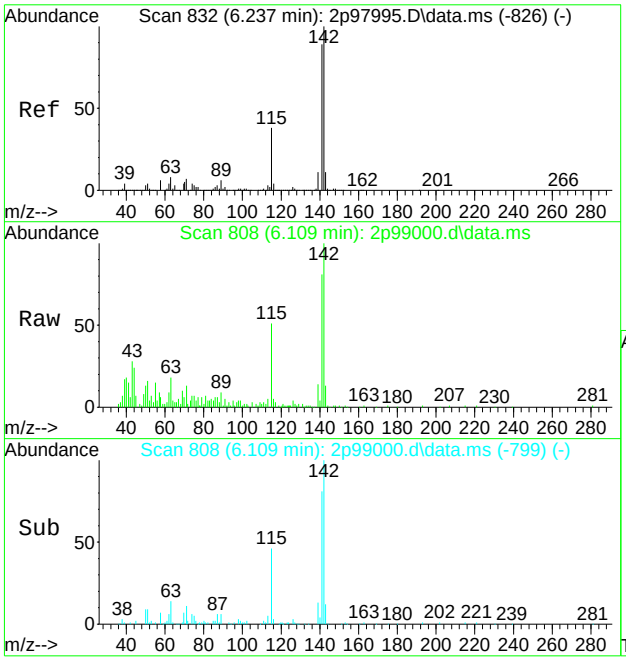


#38
Naphthalene
Concen: 0.65 ppm
RT: 5.435 min Scan# 682
Delta R.T. 0.000 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:128 Resp: 20649

Ion	Ratio	Lower	Upper
128	100		
129	10.9	0.0	41.2
127	12.5	0.0	43.7

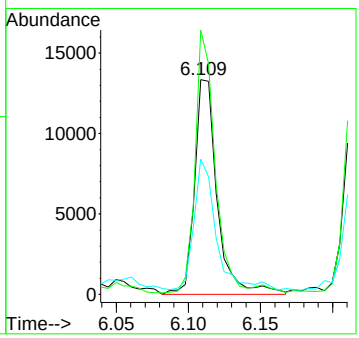


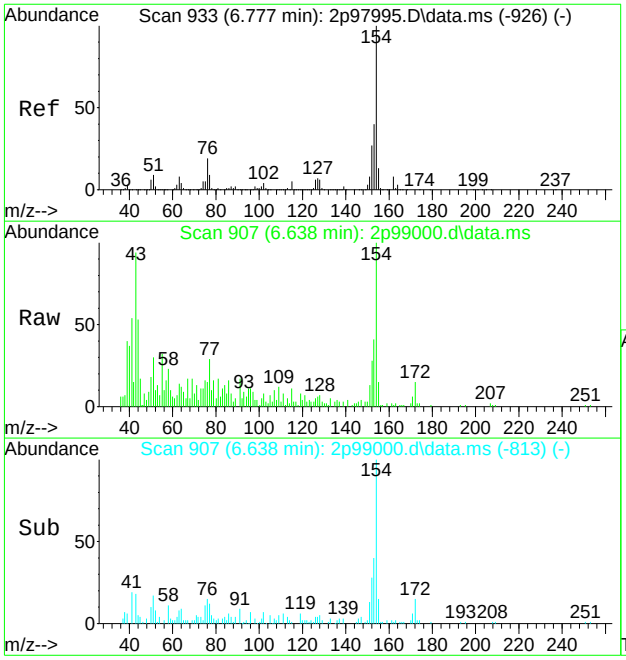


#44
2-Methylnaphthalene
Concen: 0.86 ppm
RT: 6.109 min Scan# 808
Delta R.T. 0.000 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:141 Resp: 14634

Ion	Ratio	Lower	Upper
141	100		
142	123.0	88.6	148.6
115	60.4	27.1	87.1

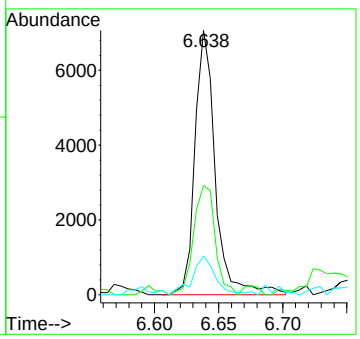


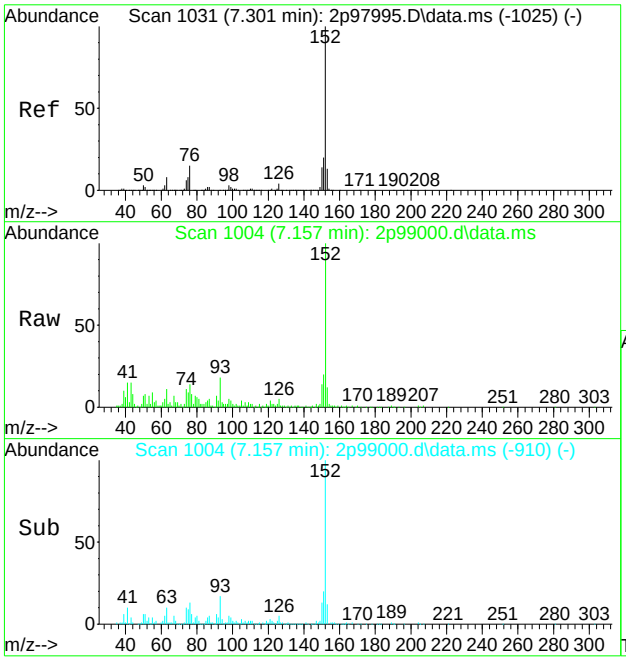


#53
Biphenyl
Concen: 0.27 ppm
RT: 6.638 min Scan# 907
Delta R.T. 0.000 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:154 Resp: 7816

Ion	Ratio	Lower	Upper
154	100		
153	39.9	11.2	71.2
155	13.0	0.0	42.9

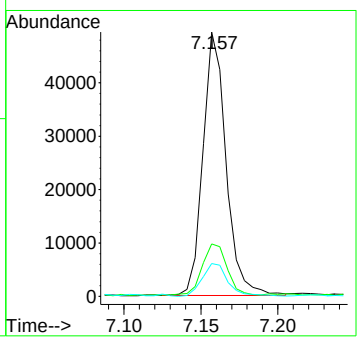


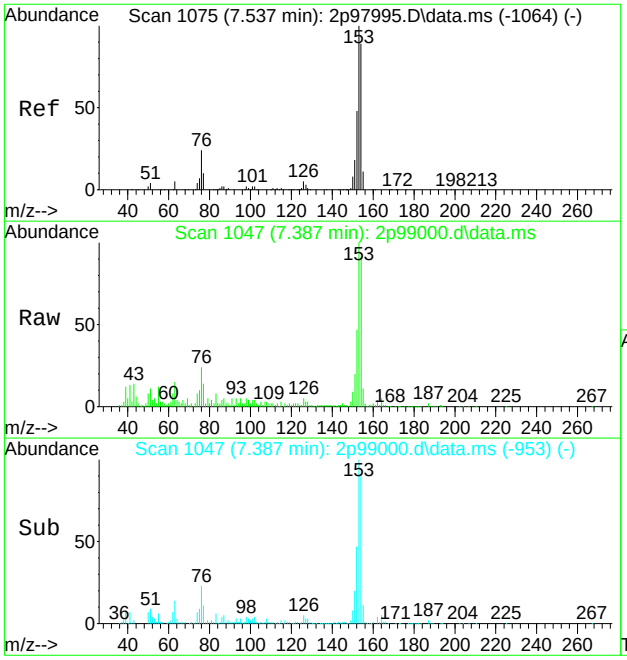


#56
Acenaphthylene
Concen: 1.51 ppm
RT: 7.157 min Scan# 1004
Delta R.T. 0.000 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:152 Resp: 51633

Ion	Ratio	Lower	Upper
152	100		
151	19.2	0.0	50.7
153	11.9	0.0	42.9

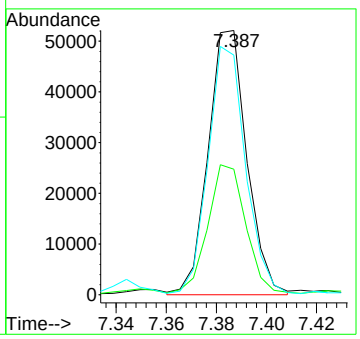


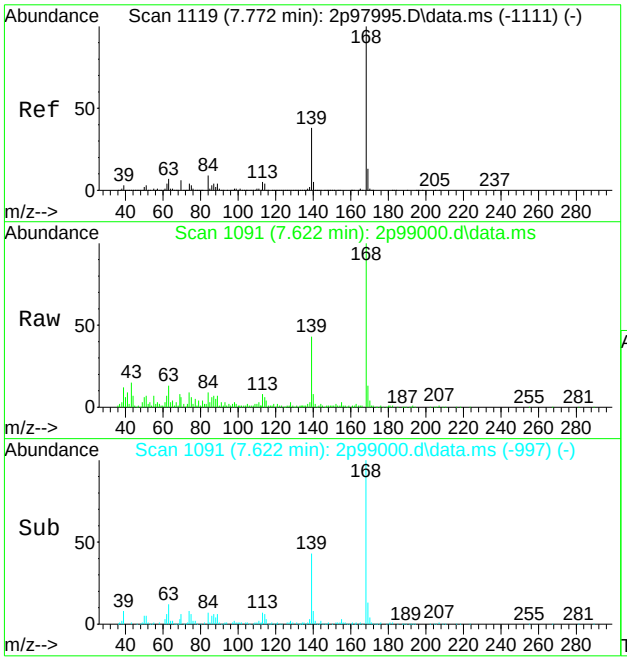


#59
Acenaphthene
Concen: 2.48 ppm m
RT: 7.387 min Scan# 1047
Delta R.T. 0.000 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:153 Resp: 55897

Ion	Ratio	Lower	Upper
153	100		
152	47.5	18.0	78.0
154	90.6	60.1	120.1

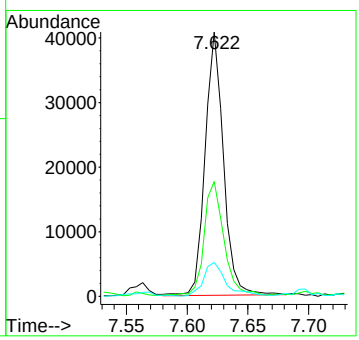


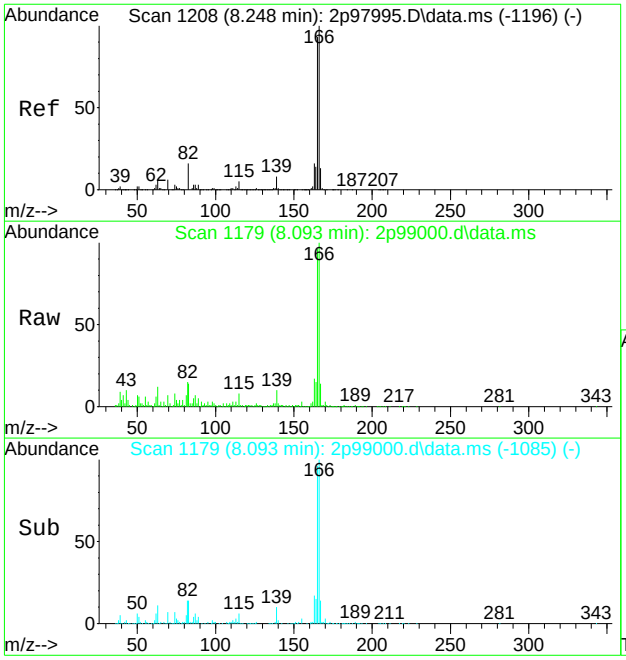


#62
Dibenzofuran
Concen: 1.42 ppm
RT: 7.622 min Scan# 1091
Delta R.T. 0.000 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:168 Resp: 42865

Ion	Ratio	Lower	Upper
168	100		
139	43.1	10.6	70.6
169	12.2	0.0	42.9

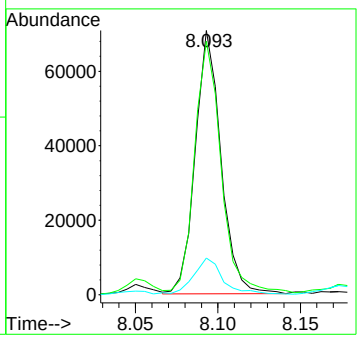


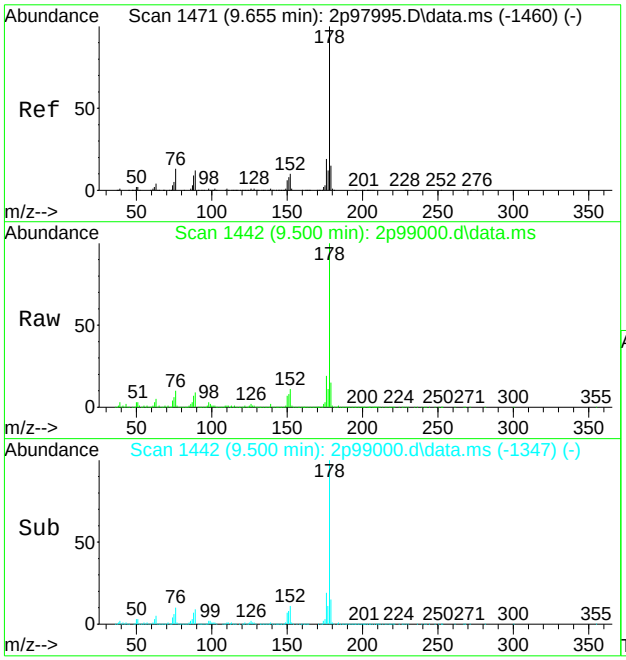


#66
Fluorene
Concen: 3.15 ppm
RT: 8.093 min Scan# 1179
Delta R.T. 0.000 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:166 Resp: 76595

Ion	Ratio	Lower	Upper
166	100		
165	95.0	65.3	125.3
167	13.5	0.0	43.3

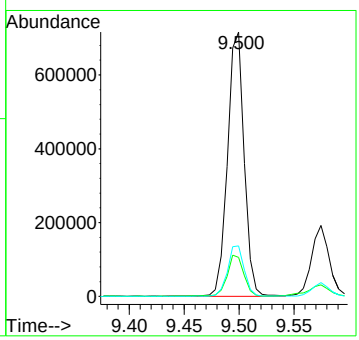


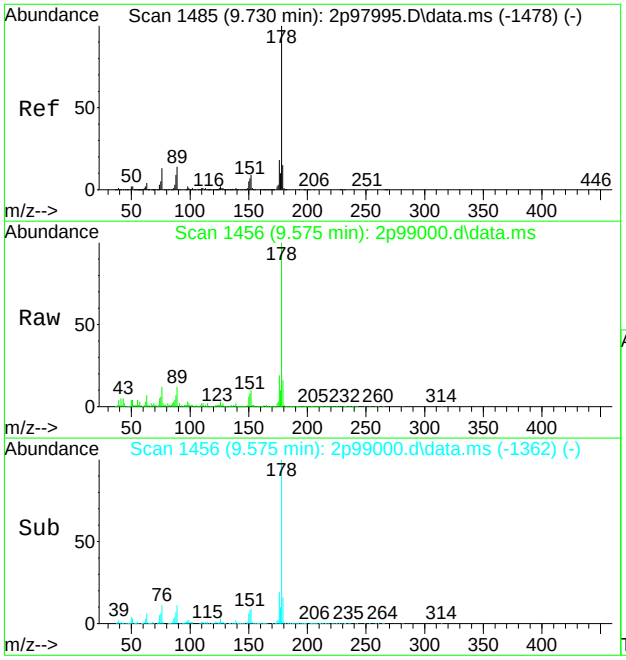


#77
Phenanthrene
Concen: 23.74 ppm
RT: 9.500 min Scan# 1442
Delta R.T. 0.006 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:178 Resp: 760757

Ion	Ratio	Lower	Upper
178	100		
179	14.6	0.0	44.9
176	19.0	0.0	49.2

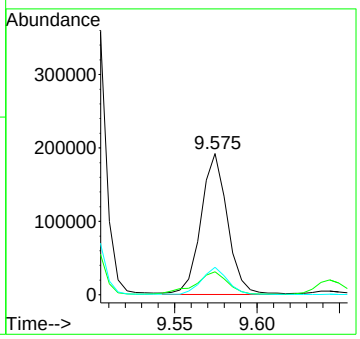


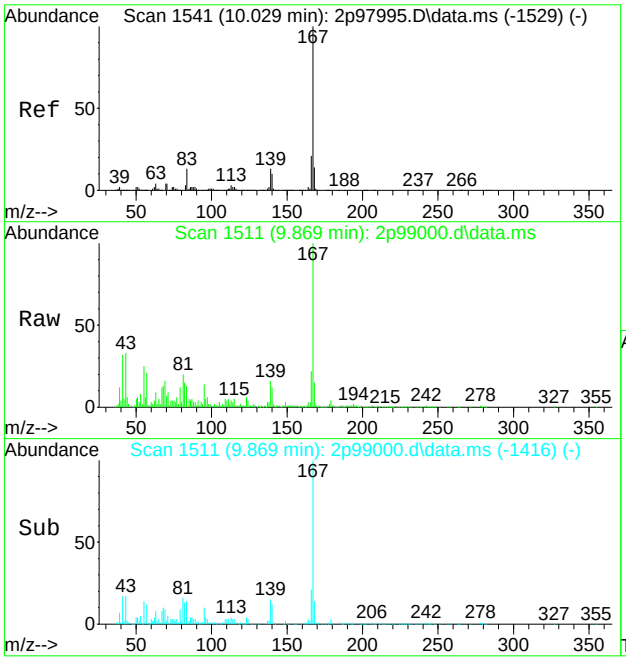


#78
Anthracene
Concen: 6.73 ppm
RT: 9.575 min Scan# 1456
Delta R.T. 0.000 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:178 Resp: 215957

Ion	Ratio	Lower	Upper
178	100		
179	15.7	0.0	44.8
176	19.2	0.0	49.1

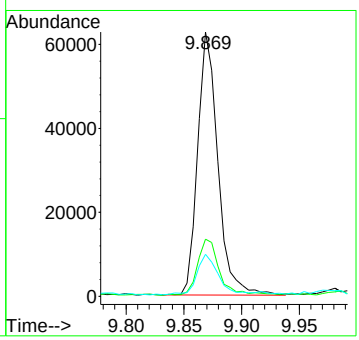


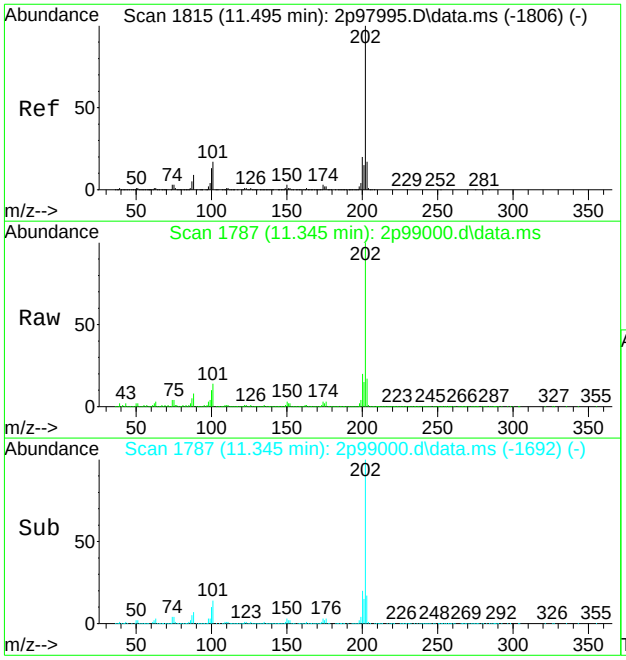


#79
Carbazole
Concen: 2.54 ppm
RT: 9.869 min Scan# 1511
Delta R.T. 0.006 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:167 Resp: 76520

Ion	Ratio	Lower	Upper
167	100		
166	21.1	0.0	51.3
139	15.2	0.0	44.4

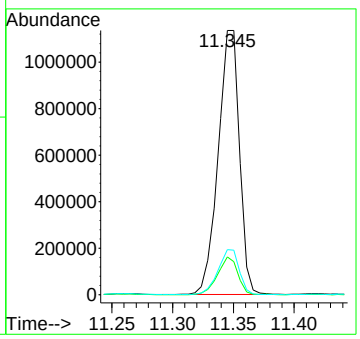


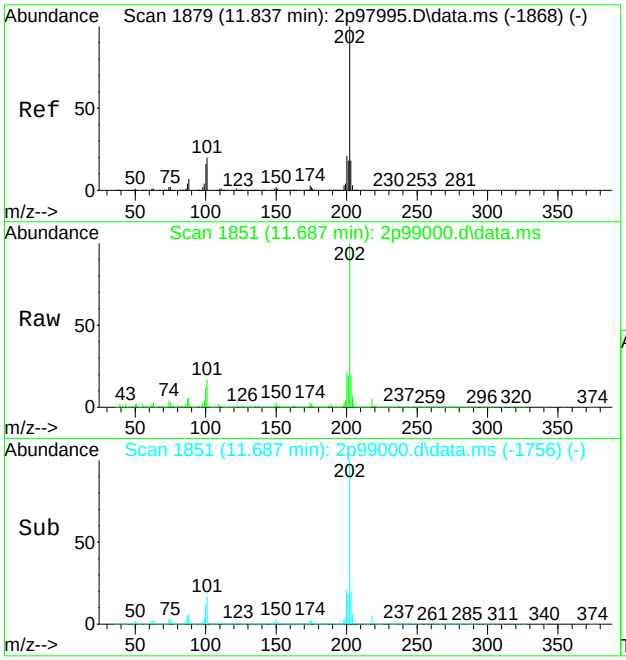


#81
Fluoranthene
Concen: 39.28 ppm
RT: 11.345 min Scan# 1787
Delta R.T. 0.006 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:202 Resp: 1381559

Ion	Ratio	Lower	Upper
202	100		
101	14.3	0.0	43.7
203	17.0	0.0	46.5

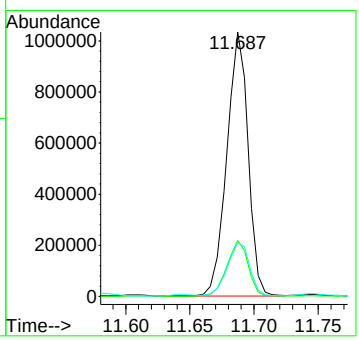


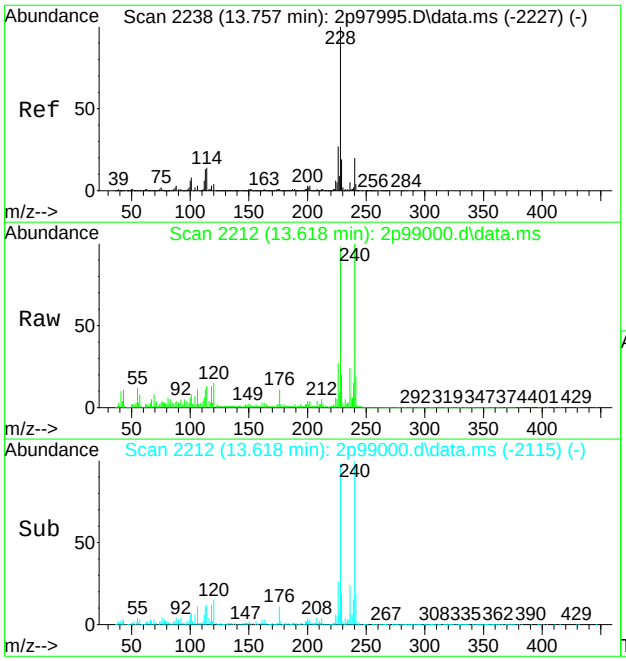


#84
Pyrene
Concen: 35.81 ppm
RT: 11.687 min Scan# 1851
Delta R.T. 0.006 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:202 Resp: 1197101

Ion	Ratio	Lower	Upper
202	100		
200	21.1	0.0	50.9
203	20.1	0.0	47.9

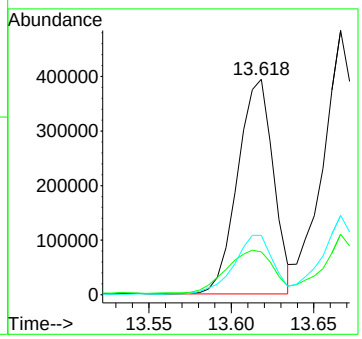


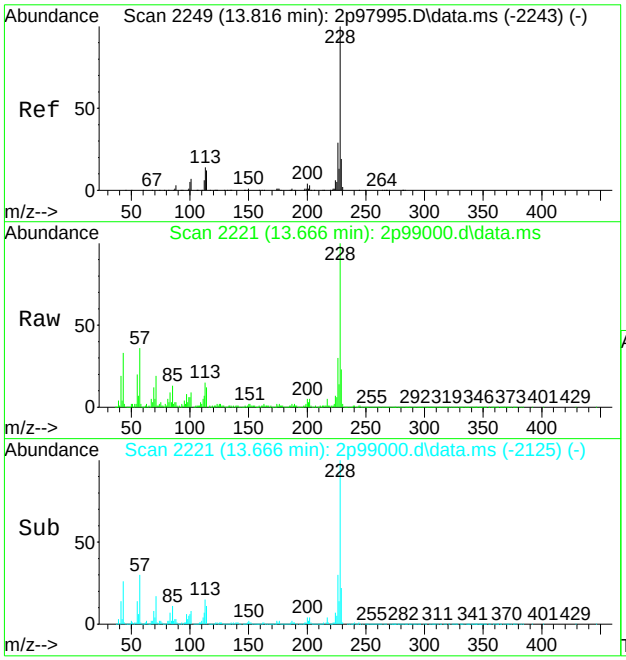


#87
Benzo[a]anthracene
Concen: 18.15 ppm
RT: 13.618 min Scan# 2212
Delta R.T. 0.016 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:228 Resp: 594358

Ion	Ratio	Lower	Upper
228	100		
229	18.8	0.0	50.0
226	27.4	0.0	56.8

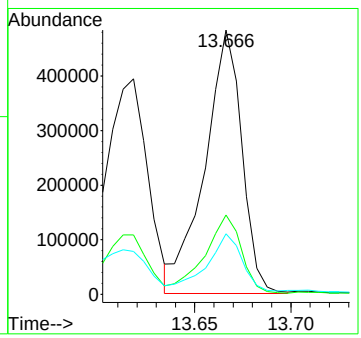


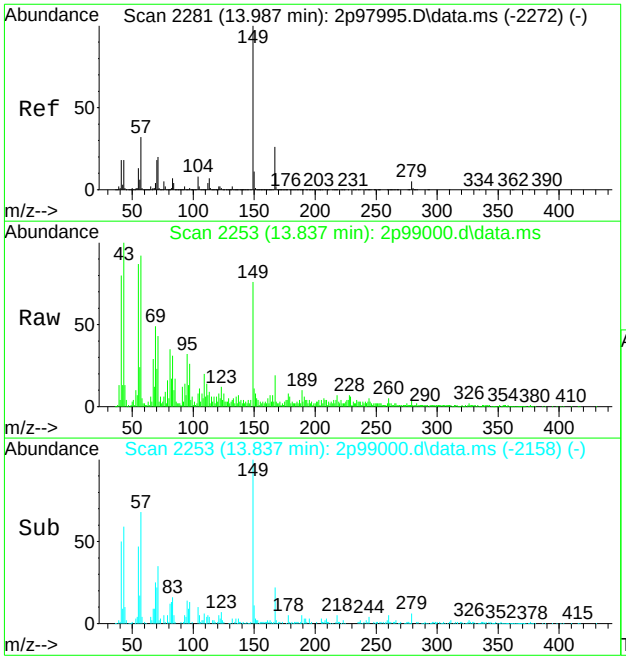


#89
Chrysene
Concen: 20.63 ppm
RT: 13.666 min Scan# 2221
Delta R.T. 0.011 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:228 Resp: 647144

Ion	Ratio	Lower	Upper
228	100		
226	30.0	0.3	60.3
229	21.9	0.0	49.6

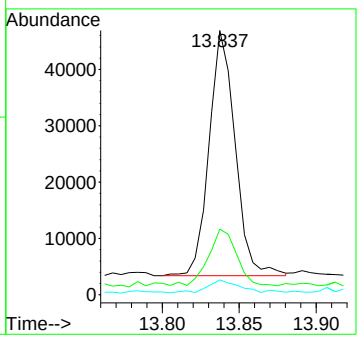


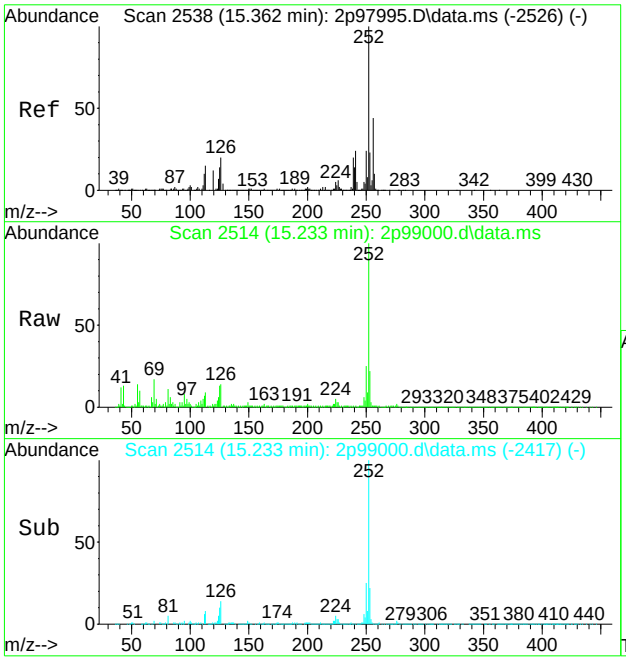


#90
bis(2-Ethylhexyl)phthalate
Concen: 2.34 ppm
RT: 13.837 min Scan# 2253
Delta R.T. 0.006 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:149 Resp: 51196

Ion	Ratio	Lower	Upper
149	100		
167	22.2	0.0	56.5
279	5.0	0.0	35.6

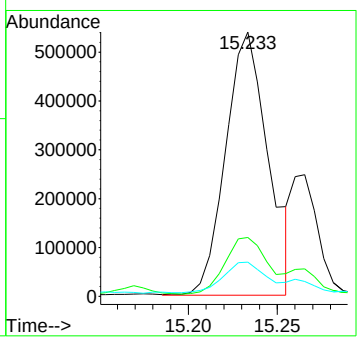


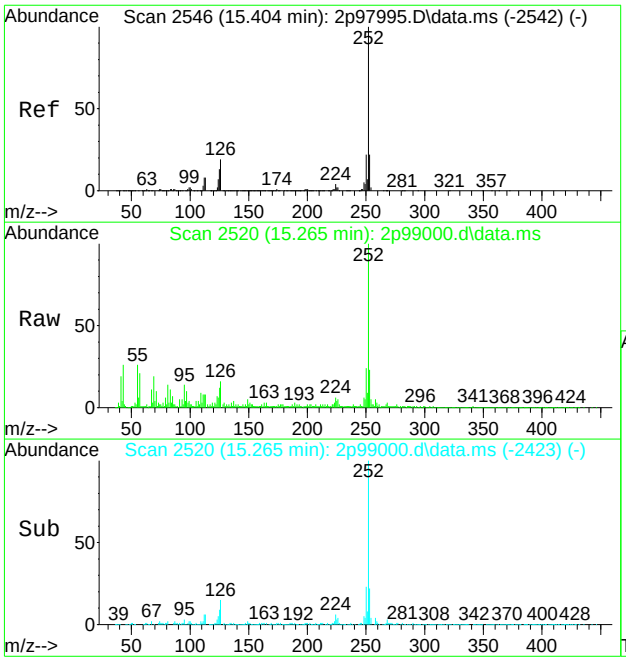


#93
Benzo[b]fluoranthene
Concen: 23.86 ppm
RT: 15.233 min Scan# 2514
Delta R.T. 0.016 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:252 Resp: 894896

Ion	Ratio	Lower	Upper
252	100		
253	20.9	0.0	51.4
125	11.5	0.0	39.2

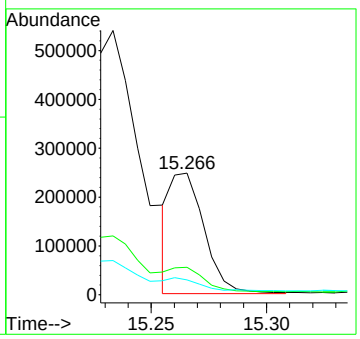


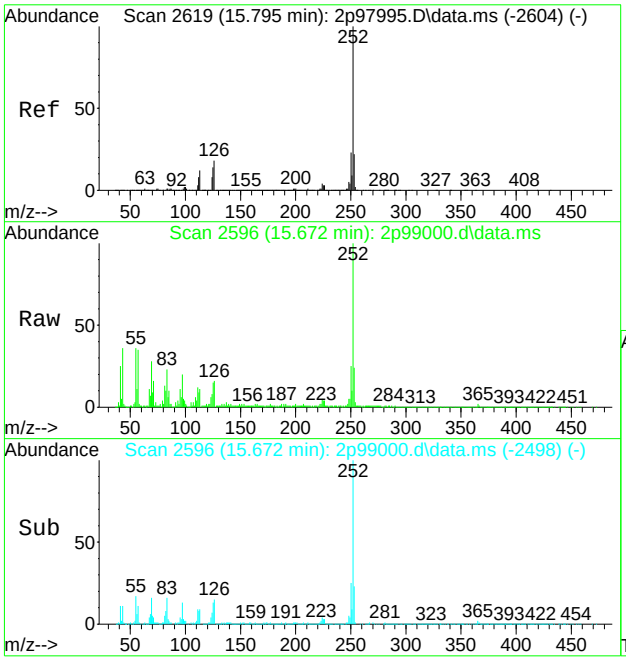


#94
Benzo[k]fluoranthene
Concen: 7.30 ppm
RT: 15.265 min Scan# 2520
Delta R.T. 0.016 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:252 Resp: 252480

Ion	Ratio	Lower	Upper
252	100		
253	19.4	0.0	51.6
125	7.8	0.0	40.9

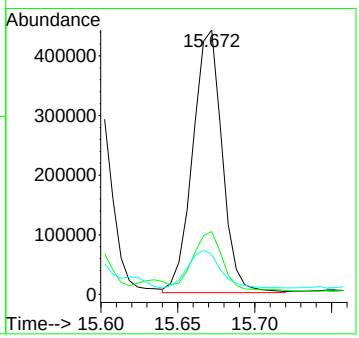


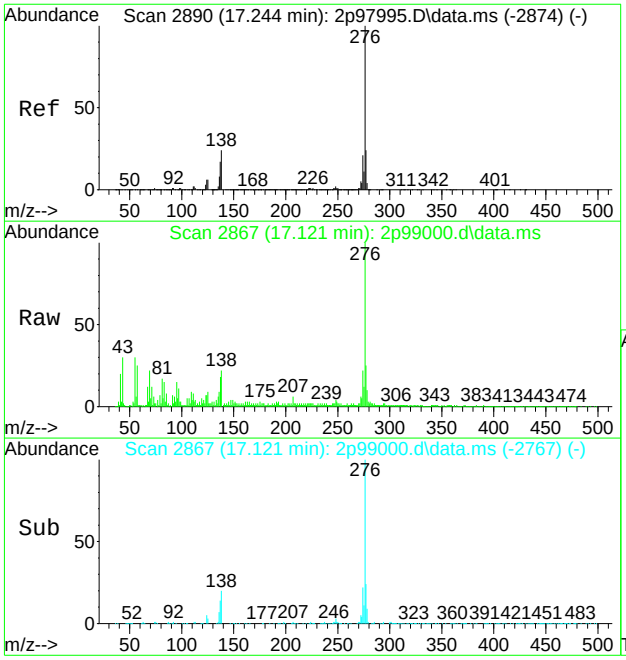


#95
Benzo[a]pyrene
Concen: 18.01 ppm
RT: 15.672 min Scan# 2596
Delta R.T. 0.022 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:252 Resp: 586479

Ion	Ratio	Lower	Upper
252	100		
253	20.8	0.0	51.7
125	13.0	0.0	41.0

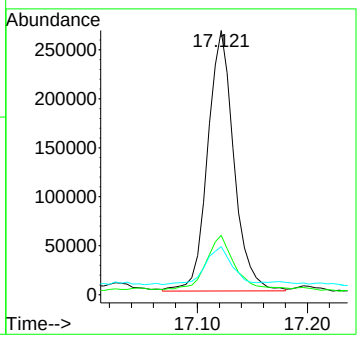


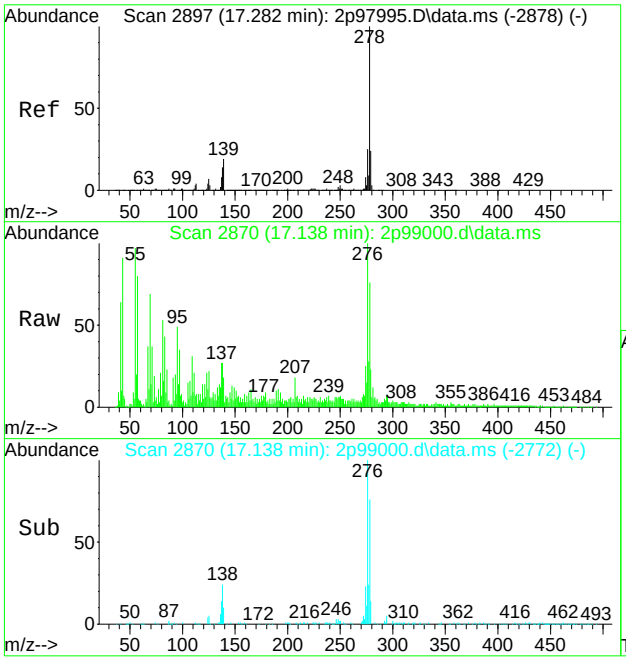


#96
Indeno[1,2,3-cd]pyrene
Concen: 12.64 ppm
RT: 17.121 min Scan# 2867
Delta R.T. 0.032 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:276 Resp: 441450

Ion	Ratio	Lower	Upper
276	100		
138	20.6	0.0	49.6
137	14.3	0.0	44.3

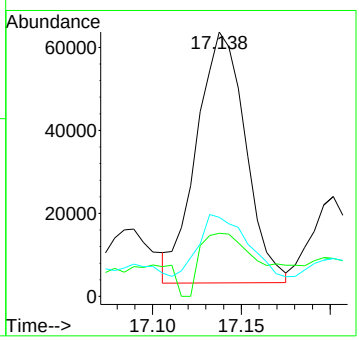


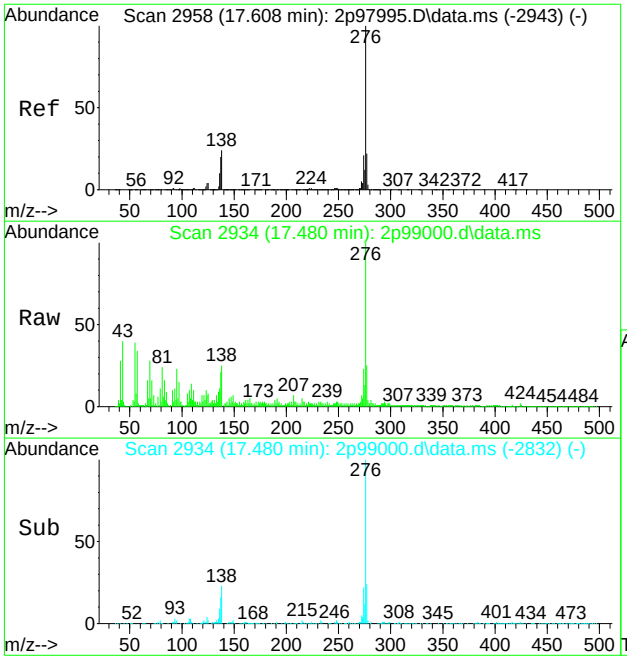


#98
Dibenz[a,h]anthracene
Concen: 3.19 ppm
RT: 17.138 min Scan# 2870
Delta R.T. 0.022 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:278 Resp: 115840

Ion	Ratio	Lower	Upper
278	100		
139	14.2	0.0	45.6
279	25.0	0.0	53.3

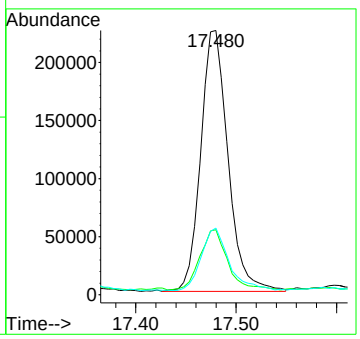




#100
Benzo[g,h,i]perylene
Concen: 12.36 ppm
RT: 17.480 min Scan# 2934
Delta R.T. 0.043 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:276 Resp: 425144

Ion	Ratio	Lower	Upper
276	100		
138	22.6	0.0	51.4
277	23.9	0.0	53.7



LSC Area Percent Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Title : Semi Volatile Extractables by GC/MS

Signal : TIC: 2p99000.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.210	262	266	282	rVB	473593	509416	3.55%	0.300%
2	3.515	320	323	341	rBV	1399272	1332237	9.28%	0.785%
3	4.001	407	414	418	rBV	183387	235036	1.64%	0.138%
4	4.231	452	457	462	rBV	1215121	1281694	8.93%	0.755%
5	4.269	462	464	470	rVV	229406	248024	1.73%	0.146%
6	4.429	491	494	502	rBV	4276957	3015272	21.00%	1.776%
7	4.841	566	571	581	rBV	1691938	1416106	9.86%	0.834%
8	5.419	674	679	687	rVV	4126898	3532775	24.61%	2.081%
9	6.216	821	828	842	rBV3	109824	185384	1.29%	0.109%
10	6.526	880	886	897	rBV	2424787	2259470	15.74%	1.331%
11	7.077	979	989	999	rVB4	155746	302666	2.11%	0.178%
12	7.157	999	1004	1009	rBV2	185692	236355	1.65%	0.139%
13	7.344	1030	1039	1044	rBV	3849855	3727687	25.96%	2.196%
14	7.382	1044	1046	1052	rVB	246907	278807	1.94%	0.164%
15	8.093	1175	1179	1188	rVB2	292568	332158	2.31%	0.196%
16	8.451	1241	1246	1253	rBV	1066051	1285942	8.96%	0.758%
17	8.767	1300	1305	1314	rVB3	134688	238997	1.66%	0.141%
18	9.115	1358	1370	1374	rBV9	150663	328684	2.29%	0.194%
19	9.184	1379	1383	1393	rVB6	121513	286367	1.99%	0.169%
20	9.462	1429	1435	1438	rBV2	3160372	3678153	25.62%	2.167%
21	9.494	1438	1441	1447	rVB	1929498	2104125	14.66%	1.240%
22	9.575	1448	1456	1461	rBV	537313	638850	4.45%	0.376%
23	9.703	1476	1480	1484	rVB	489391	500838	3.49%	0.295%
24	9.740	1484	1487	1497	rVB	376010	462673	3.22%	0.273%
25	9.869	1506	1511	1517	rBV	294661	357879	2.49%	0.211%
26	9.992	1523	1534	1541	rBV4	204865	393487	2.74%	0.232%
27	10.254	1578	1583	1586	rBV	281064	335075	2.33%	0.197%
28	10.291	1586	1590	1596	rVB	319132	382300	2.66%	0.225%
29	10.404	1607	1611	1616	rBV3	367109	516843	3.60%	0.304%
30	10.452	1616	1620	1626	rVB	162690	226195	1.58%	0.133%
31	10.537	1626	1636	1640	rBV4	228255	480531	3.35%	0.283%
32	10.735	1668	1673	1677	rBV	185500	270863	1.89%	0.160%
33	10.773	1677	1680	1689	rVB2	218178	313663	2.18%	0.185%
34	11.013	1722	1725	1736	rVB3	105448	254121	1.77%	0.150%
35	11.131	1740	1747	1751	rBV2	160197	290269	2.02%	0.171%
36	11.217	1759	1763	1776	rVB8	213036	485637	3.38%	0.286%
37	11.345	1777	1787	1794	rBV	2961251	3771132	26.27%	2.222%
38	11.479	1804	1812	1823	rBV4	905312	1453486	10.12%	0.856%
39	11.687	1842	1851	1858	rVB	2941220	3673051	25.58%	2.164%
40	11.917	1889	1894	1906	rBV3	498475	992834	6.92%	0.585%

LSC Area Percent Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Title : Semi Volatile Extractables by GC/MS

41	12.014	1907	1912	1920	rVB	1961593	2494354	17.37%	1.469%
42	12.078	1920	1924	1929	rVB2	137093	226758	1.58%	0.134%
43	12.249	1942	1956	1960	rVV2	369590	732717	5.10%	0.432%
44	12.351	1970	1975	1979	rBV2	363770	473764	3.30%	0.279%
45	12.399	1980	1984	1987	rBV	209282	275602	1.92%	0.162%
46	12.538	2005	2010	2013	rBV2	227658	293563	2.04%	0.173%
47	12.580	2013	2018	2022	rVB2	360911	489980	3.41%	0.289%
48	12.720	2042	2044	2051	rVB5	152125	226905	1.58%	0.134%
49	12.864	2066	2071	2077	rVV2	372984	518092	3.61%	0.305%
50	12.939	2081	2085	2092	rVB6	141359	216456	1.51%	0.128%
51	13.067	2104	2109	2113	rVB3	167821	225445	1.57%	0.133%
52	13.131	2118	2121	2131	rVB2	169049	296341	2.06%	0.175%
53	13.212	2132	2136	2141	rBV	259921	399349	2.78%	0.235%
54	13.287	2148	2150	2156	rVB2	159428	240307	1.67%	0.142%
55	13.340	2156	2160	2165	rBV3	164065	246593	1.72%	0.145%
56	13.404	2166	2172	2179	rVB3	242490	418909	2.92%	0.247%
57	13.490	2184	2188	2193	rBV2	157483	248419	1.73%	0.146%
58	13.575	2200	2204	2206	rBV2	267420	356975	2.49%	0.210%
59	13.629	2206	2214	2218	rVV3	3389379	5818254	40.53%	3.427%
60	13.666	2218	2221	2230	rVB2	2239236	2907269	20.25%	1.713%
61	13.779	2238	2242	2249	rVB	279793	352890	2.46%	0.208%
62	13.837	2249	2253	2257	rBV3	298708	433234	3.02%	0.255%
63	14.035	2286	2290	2295	rBV2	175543	228349	1.59%	0.135%
64	14.174	2309	2316	2320	rBV3	231359	453853	3.16%	0.267%
65	14.265	2330	2333	2339	rVB2	230748	319335	2.22%	0.188%
66	14.677	2403	2410	2427	rBV2	1216298	4070994	28.36%	2.398%
67	15.132	2490	2495	2505	rBV4	514404	1137647	7.92%	0.670%
68	15.228	2507	2513	2518	rBV2	1764323	3201542	22.30%	1.886%
69	15.340	2529	2534	2537	rBV2	502886	682171	4.75%	0.402%
70	15.619	2577	2586	2591	rBV2	4771208	8012604	55.81%	4.720%
71	15.667	2591	2595	2605	rVV2	2183577	3861290	26.90%	2.275%
72	15.752	2605	2611	2615	rVV	2539424	3222697	22.45%	1.898%
73	15.982	2650	2654	2658	rVB6	210892	276016	1.92%	0.163%
74	16.057	2662	2668	2675	rVB3	451721	954698	6.65%	0.562%
75	16.121	2677	2680	2688	rVB8	200888	373231	2.60%	0.220%
76	16.260	2701	2706	2715	rBV2	771363	1325646	9.23%	0.781%
77	16.330	2715	2719	2724	rBV3	322337	500208	3.48%	0.295%
78	16.464	2738	2744	2746	rBV3	1176514	1716438	11.96%	1.011%
79	16.501	2746	2751	2757	rVV	4272232	6015640	41.90%	3.544%
80	16.560	2757	2762	2778	rVV2	1185053	2875664	20.03%	1.694%
81	16.667	2778	2782	2787	rBV	420079	665824	4.64%	0.392%
82	16.827	2809	2812	2823	rVB8	469967	880153	6.13%	0.518%
83	16.929	2825	2831	2836	rVB3	499426	905250	6.31%	0.533%
84	17.121	2862	2867	2871	rBV	606999	920768	6.41%	0.542%
85	17.170	2872	2876	2880	rVB	364965	482188	3.36%	0.284%

LSC Area Percent Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Title : Semi Volatile Extractables by GC/MS

86	17.303	2898	2901	2906	rVB7	260411	391750	2.73%	0.231%
87	17.357	2906	2911	2918	rVB3	653729	1216085	8.47%	0.716%
88	17.426	2919	2924	2929	rVB	552306	866815	6.04%	0.511%
89	17.480	2929	2934	2943	rBV	709850	1358500	9.46%	0.800%
90	17.688	2965	2973	2981	rBV3	4452095	11346850	79.03%	6.684%
91	17.854	2998	3004	3015	rVV5	870605	2317892	16.14%	1.365%
92	17.961	3016	3024	3031	rVV3	2453073	6610419	46.04%	3.894%
93	18.036	3032	3038	3049	rVB3	2636901	6071329	42.29%	3.577%
94	18.164	3057	3062	3067	rBV9	378438	871524	6.07%	0.513%
95	18.245	3068	3077	3089	rVV4	2751220	9747118	67.89%	5.742%
96	18.341	3090	3095	3107	rVB4	1245726	3516613	24.49%	2.072%
97	18.464	3109	3118	3126	rVB2	1605746	3826449	26.65%	2.254%
98	18.678	3151	3158	3167	rVB4	839039	2279605	15.88%	1.343%
99	18.774	3170	3176	3196	rVB4	446609	1387717	9.67%	0.817%
100	19.191	3241	3254	3267	rVB	5119523	14356789	100.00%	8.457%

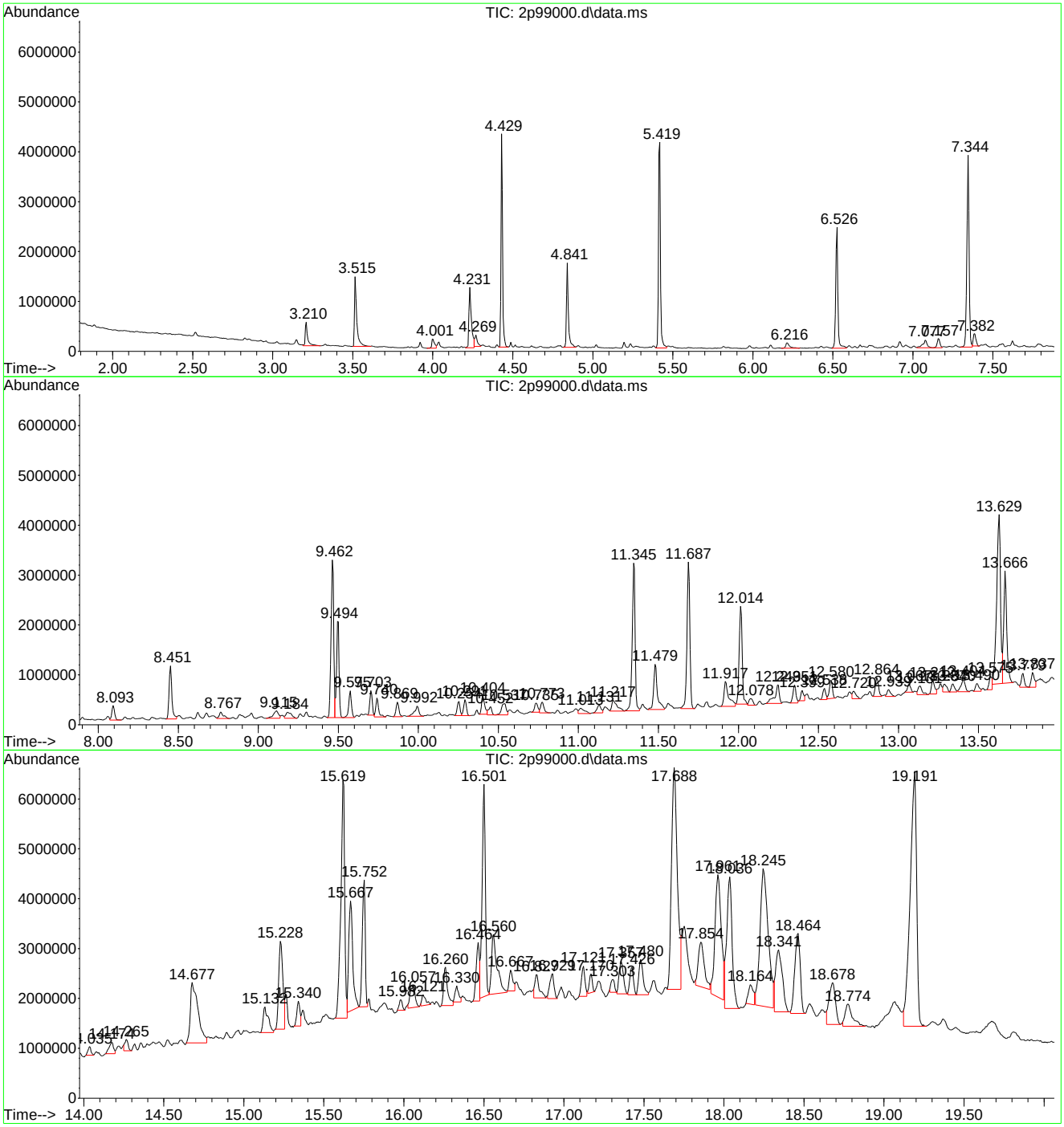
Sum of corrected areas: 169754919

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

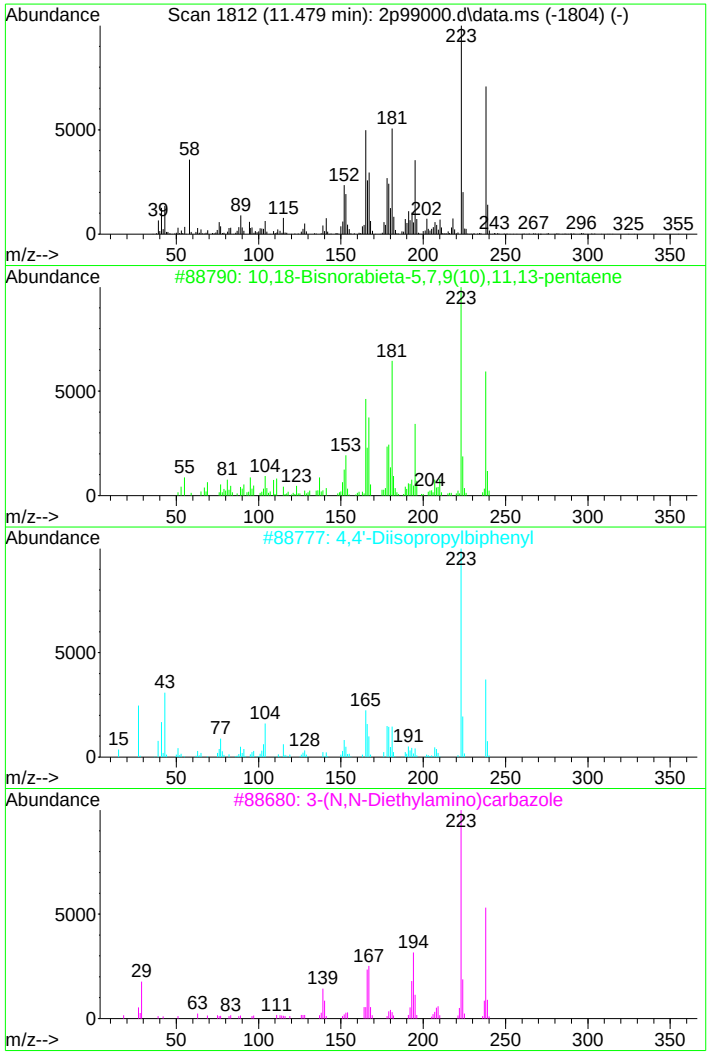
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

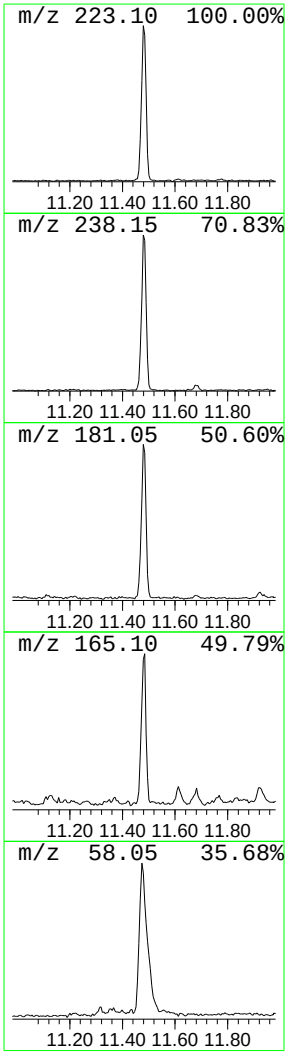
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Peak Number 1 Bisnorabieta-pentaene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.479	15.81 ppm	1453490	Phenanthrene-d10b	9.462

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	10,18-Bisnorabieta-5,7,9(10),11,...	238	C18H22	006566-19-4	99
2	4,4'-Diisopropylbiphenyl	238	C18H22	018970-30-4	55
3	3-(N,N-Diethylamino)carbazole	238	C16H18N2	054994-31-9	53
4	4,4'-Diisopropylbiphenyl	238	C18H22	018970-30-4	50
5	3,4'-Diisopropylbiphenyl	238	C18H22	061434-46-6	46





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

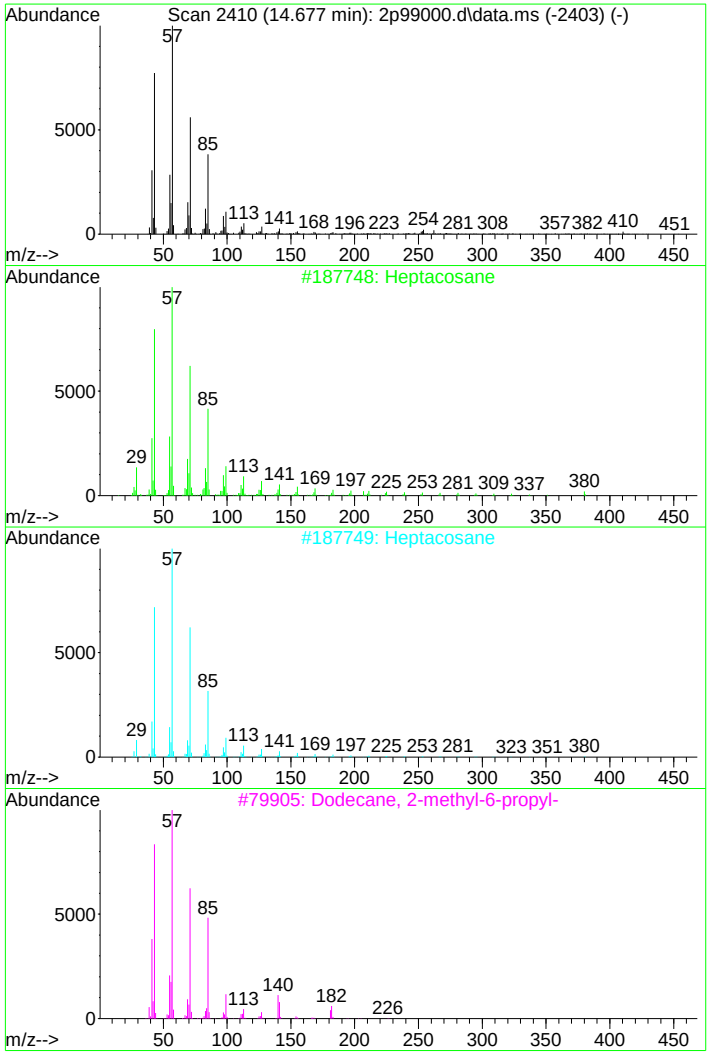
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

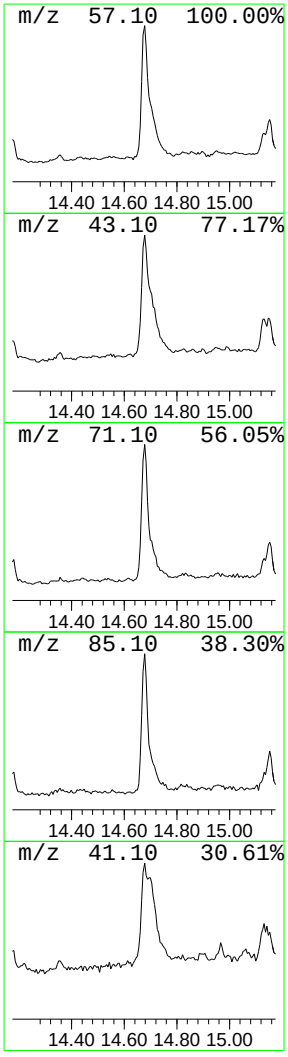
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Peak Number 2 Alkane Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.677	27.99 ppm	4070990	Chrysene-d12b	13.629

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptacosane	380	C27H56	000593-49-7	95
2	Heptacosane	380	C27H56	000593-49-7	93
3	Dodecane, 2-methyl-6-propyl-	226	C16H34	055045-08-4	91
4	Docosane, 11-butyl-	366	C26H54	013475-76-8	90
5	Octadecane	254	C18H38	000593-45-3	90





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

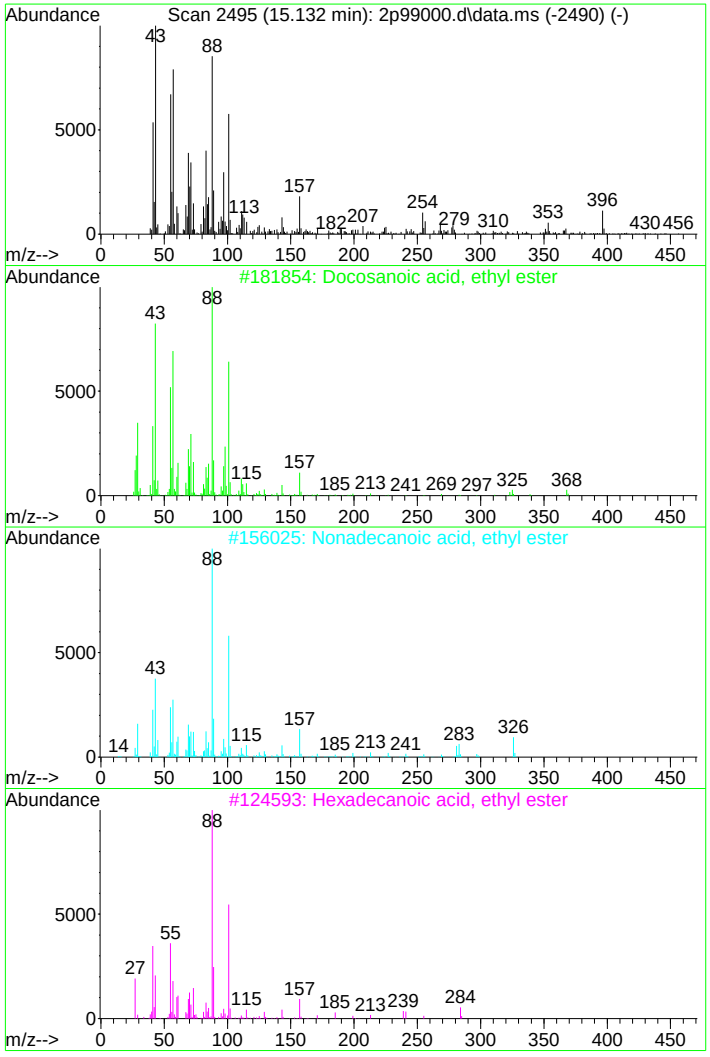
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

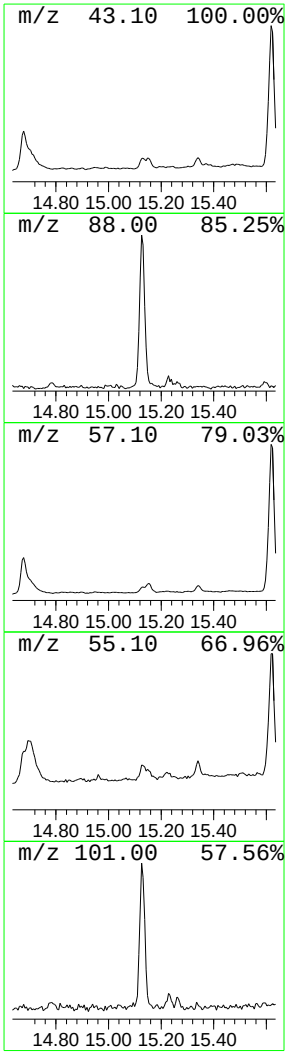
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Peak Number 3 Unknown Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.132	14.12 ppm	1137650	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Docosanoic acid, ethyl ester	368	C24H48O2	005908-87-2	52
2	Nonadecanoic acid, ethyl ester	326	C21H42O2	018281-04-4	50
3	Hexadecanoic acid, ethyl ester	284	C18H36O2	000628-97-7	47
4	Octadecanoic acid, ethyl ester	312	C20H40O2	000111-61-5	46
5	Tetradecanoic acid, 2-methyl-, m...	256	C16H32O2	055554-09-1	46





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

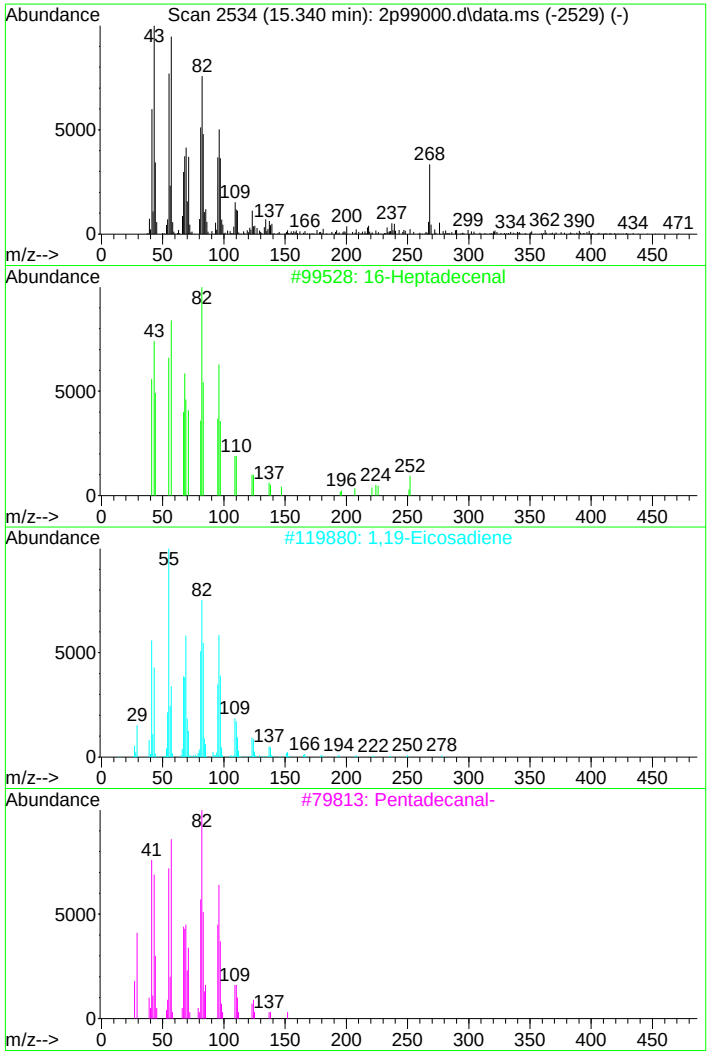
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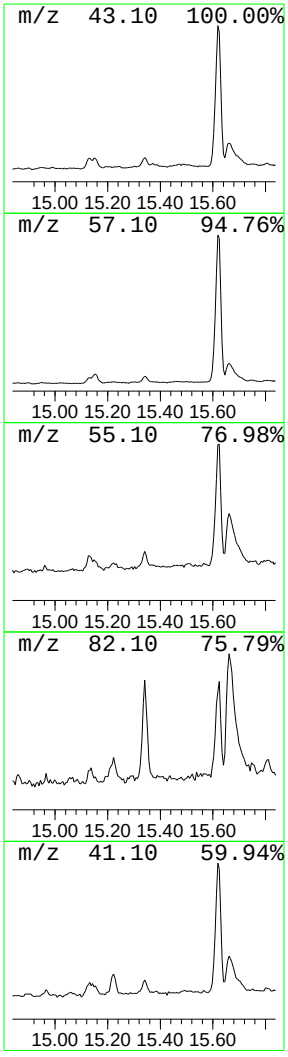
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Peak Number 4 Unknown Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.340	8.47 ppm	682171	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	16-Heptadecenal	252	C17H32O	1000144-57-9	87
2	1,19-Eicosadiene	278	C20H38	014811-95-1	87
3	Pentadecanal-	226	C15H30O	002765-11-9	87
4	11-Tetradecyn-1-ol acetate	252	C16H28O2	033925-72-3	86
5	1,16-Hexadecanediol	258	C16H34O2	007735-42-4	83





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

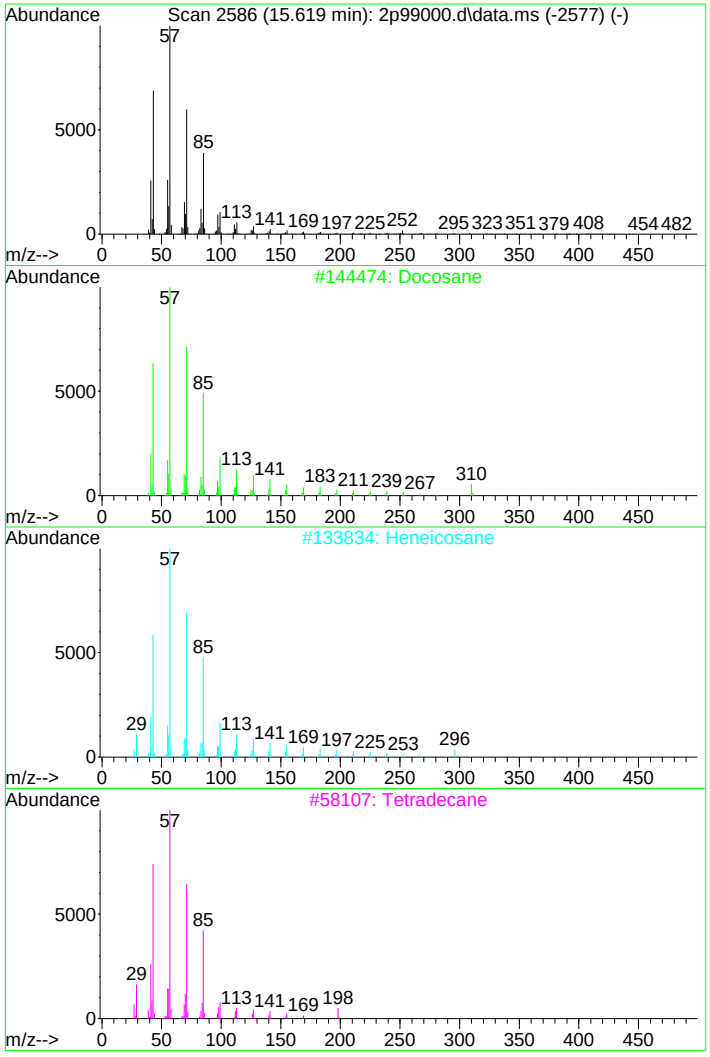
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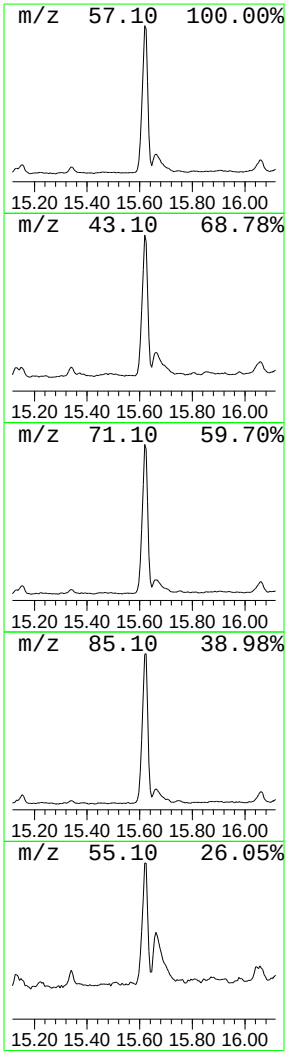
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Peak Number 5 Alkane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.618	99.45 ppm	8012600	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Docosane	310	C22H46	000629-97-0	95
2	Heneicosane	296	C21H44	000629-94-7	94
3	Tetradecane	198	C14H30	000629-59-4	94
4	Nonadecane	268	C19H40	000629-92-5	93
5	Hentriacontane	437	C31H64	000630-04-6	93





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

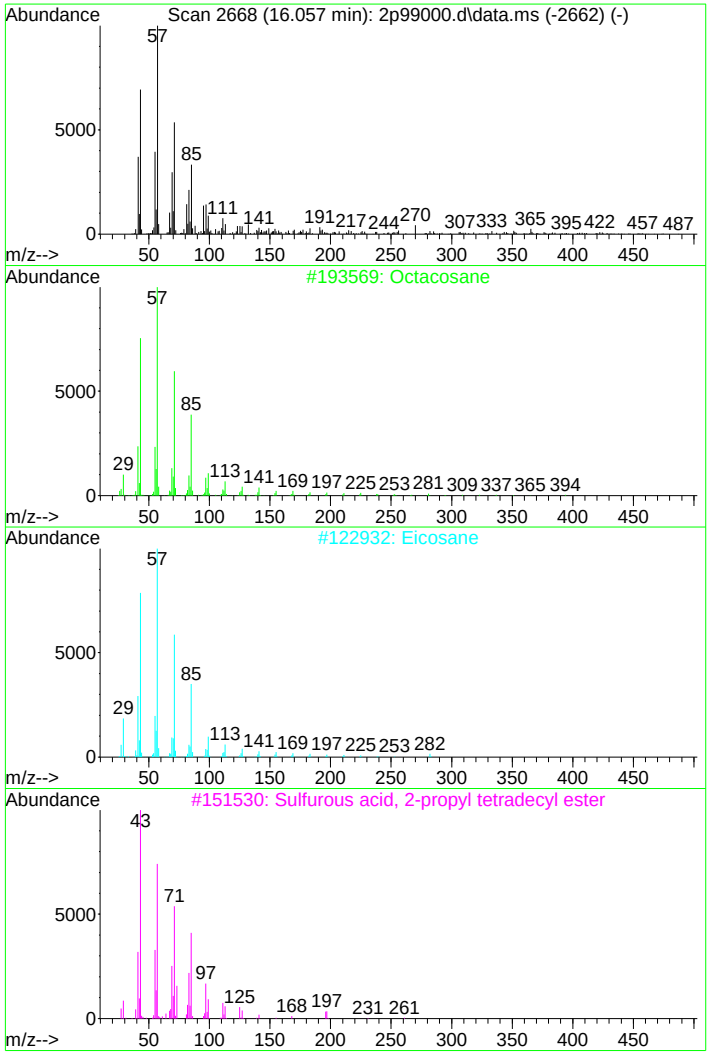
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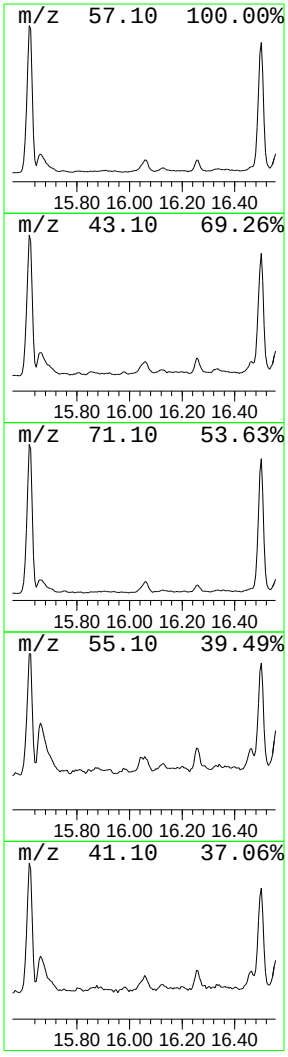
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Peak Number 6 Unknown Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.057	11.85 ppm	954698	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octacosane	394	C28H58	000630-02-4	78
2	Eicosane	282	C20H42	000112-95-8	78
3	Sulfurous acid, 2-propyl tetrade...	320	C17H36O3S	1000309-12-5	68
4	Sulfurous acid, 2-propyl tridecy...	306	C16H34O3S	1000309-12-4	68
5	Dodecane	170	C12H26	000112-40-3	60





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

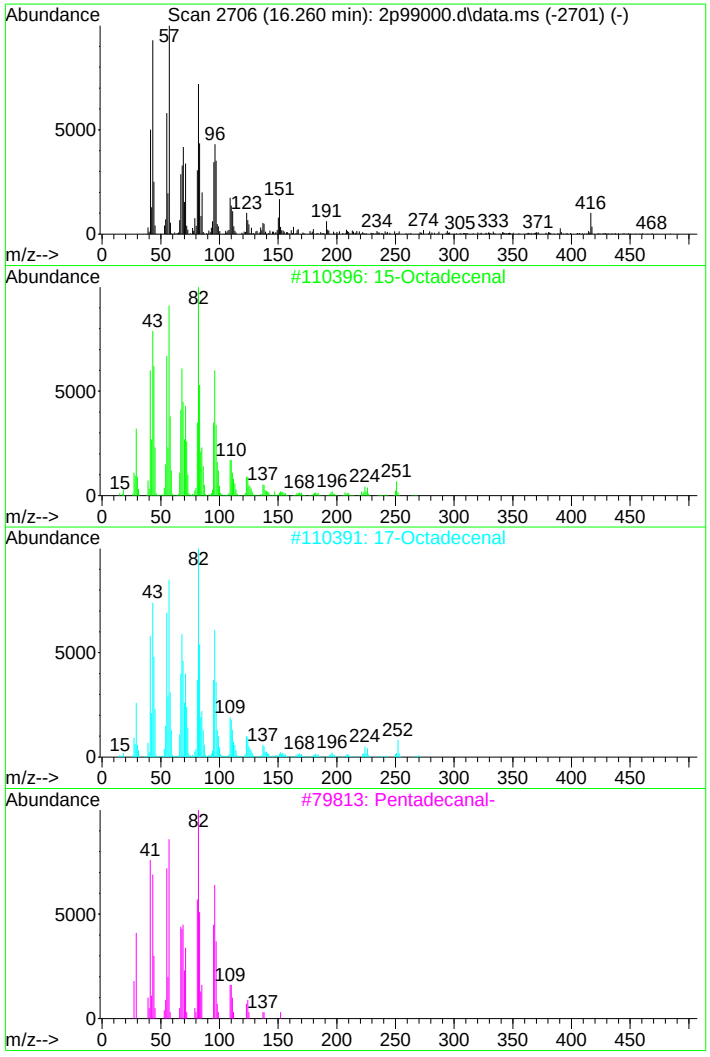
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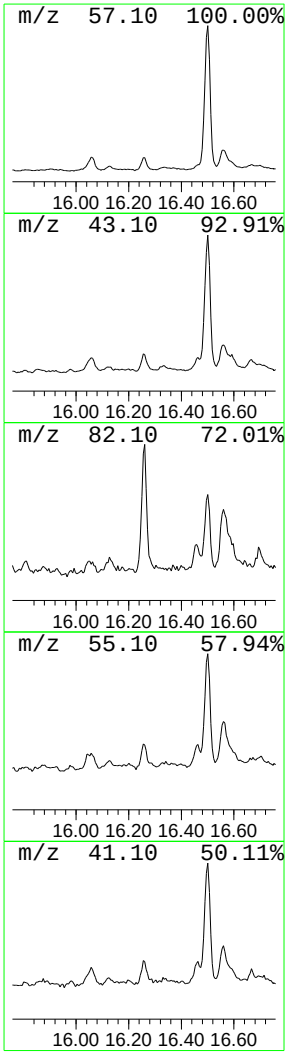
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Peak Number 7 Unknown alcohols Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.260	16.45 ppm	1325650	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	15-Octadecenal	266	C18H34O	056554-93-9	83
2	17-Octadecenal	266	C18H34O	056554-86-0	83
3	Pentadecanal-	226	C15H30O	002765-11-9	74
4	1,19-Eicosadiene	278	C20H38	014811-95-1	72
5	(Z)-14-Tricosenyl formate	366	C24H46O2	077899-10-6	64





Library Search Compound Report

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Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On    : 15 Jan 2021    9:44 pm
Operator  : hennys
Sample    : jd18939-2
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ALS Vial  : 20   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title  : Semi Volatile Extractables by GC/MS

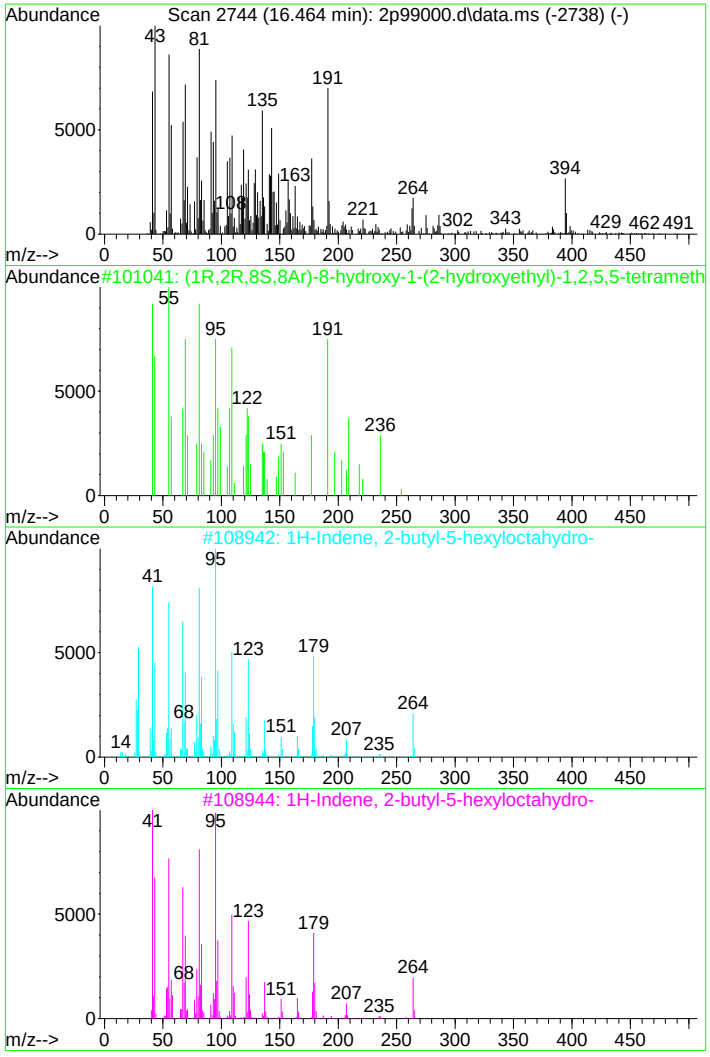
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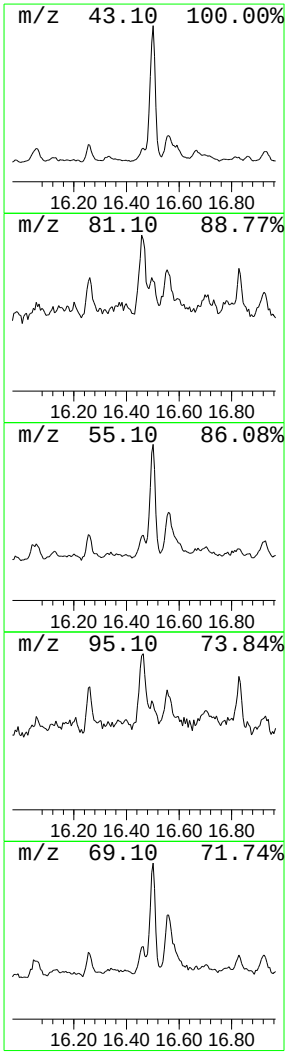
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Peak Number 8 Unknown Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.464	21.30 ppm	1716440	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(1R,2R,8S,8Ar)-8-hydroxy-1-(2-hy...	254	C16H30O2	1000298-98-6	70
2	1H-Indene, 2-butyl-5-hexyloctahy...	264	C19H36	055044-33-2	43
3	1H-Indene, 2-butyl-5-hexyloctahy...	264	C19H36	055044-33-2	41
4	28-Nor-17.alpha.(H)-hopane	398	C29H50	053584-60-4	38
5	(1R,2S,8R,8Ar)-8-acetoxy-1-(2-hy...	296	C18H32O3	1000298-98-4	35





Library Search Compound Report

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Operator  : hennys
Sample    : jd18939-2
Misc      : op31540,e2p4412,30.7,,,1,1
ALS Vial  : 20   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title  : Semi Volatile Extractables by GC/MS

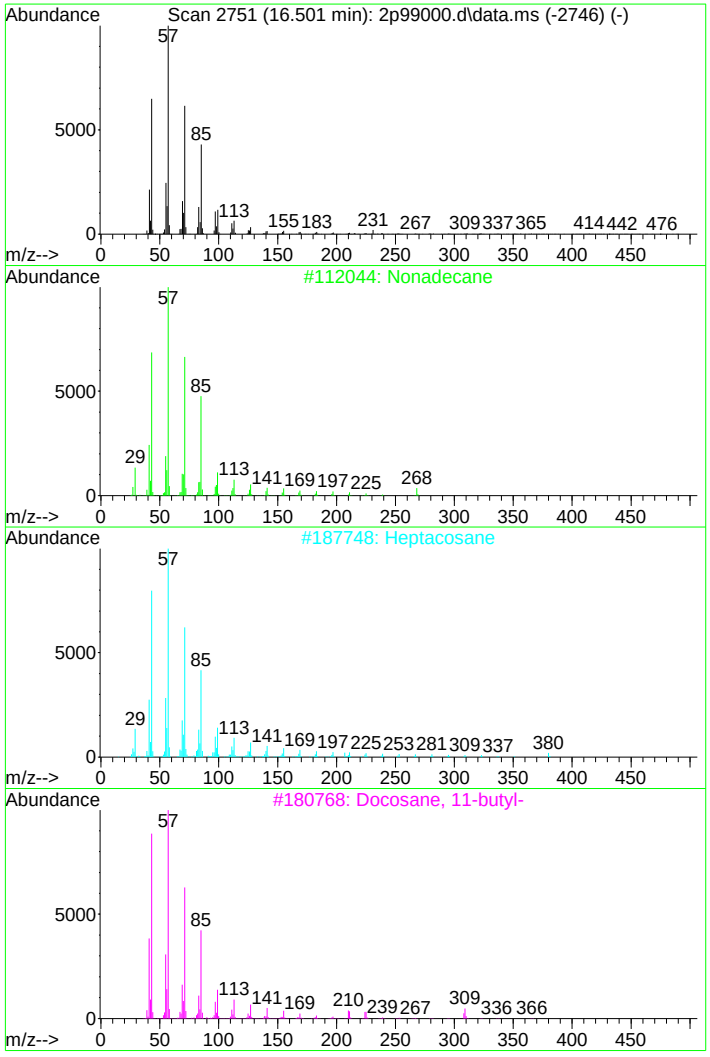
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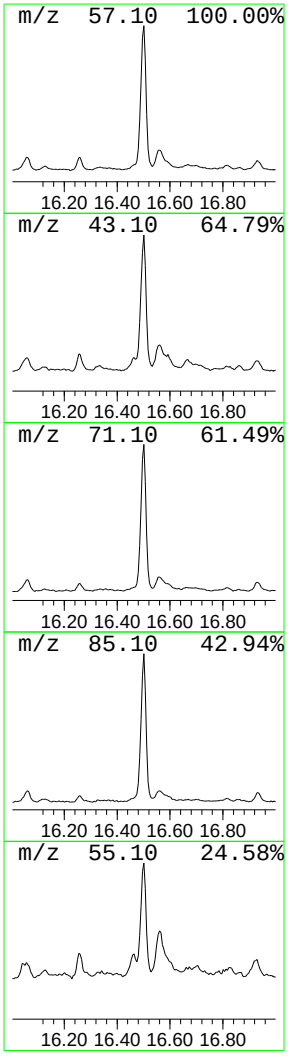
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Peak Number 9 Alkane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.501	74.67 ppm	6015640	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonadecane	268	C19H40	000629-92-5	95
2	Heptacosane	380	C27H56	000593-49-7	91
3	Docosane, 11-butyl-	366	C26H54	013475-76-8	90
4	Pentacosane	352	C25H52	000629-99-2	87
5	10-Methylnonadecane	282	C20H42	056862-62-5	86





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

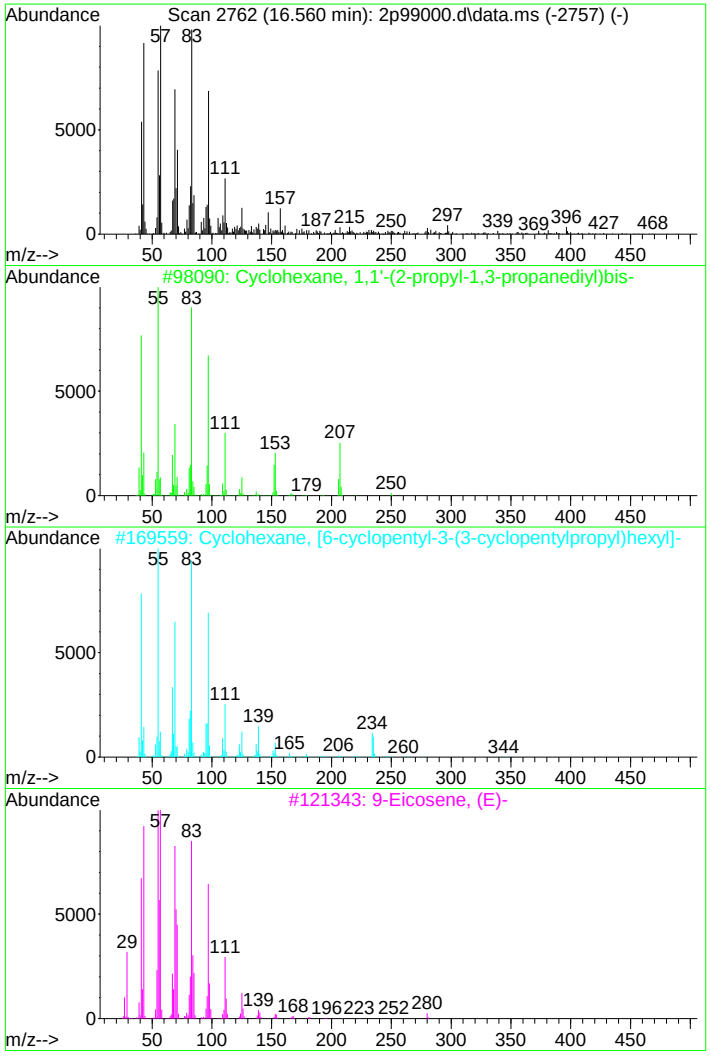
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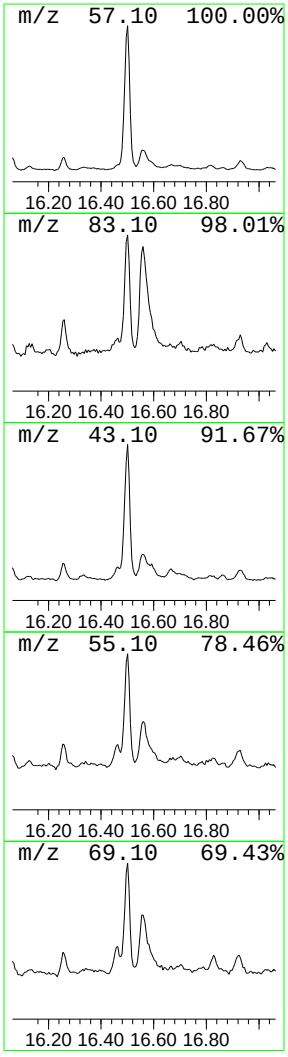
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Peak Number 10 Unknown Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.560	35.69 ppm	2875660	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1'-(2-propyl-1,3-...	250	C18H34	055030-21-2	86
2	Cyclohexane, [6-cyclopentyl-3-(3...	346	C25H46	055401-72-4	86
3	9-Eicosene, (E)-	280	C20H40	074685-29-3	83
4	Cyclooctadecane, ethyl-	280	C20H40	1000151-22-5	78
5	Octadecane, 1-(ethenyloxy)-	296	C20H40O	000930-02-9	66





Library Search Compound Report

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Data File : 2p99000.d
Acq On    : 15 Jan 2021    9:44 pm
Operator  : hennys
Sample    : jd18939-2
Misc      : op31540,e2p4412,30.7,,,1,1
ALS Vial  : 20   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title  : Semi Volatile Extractables by GC/MS

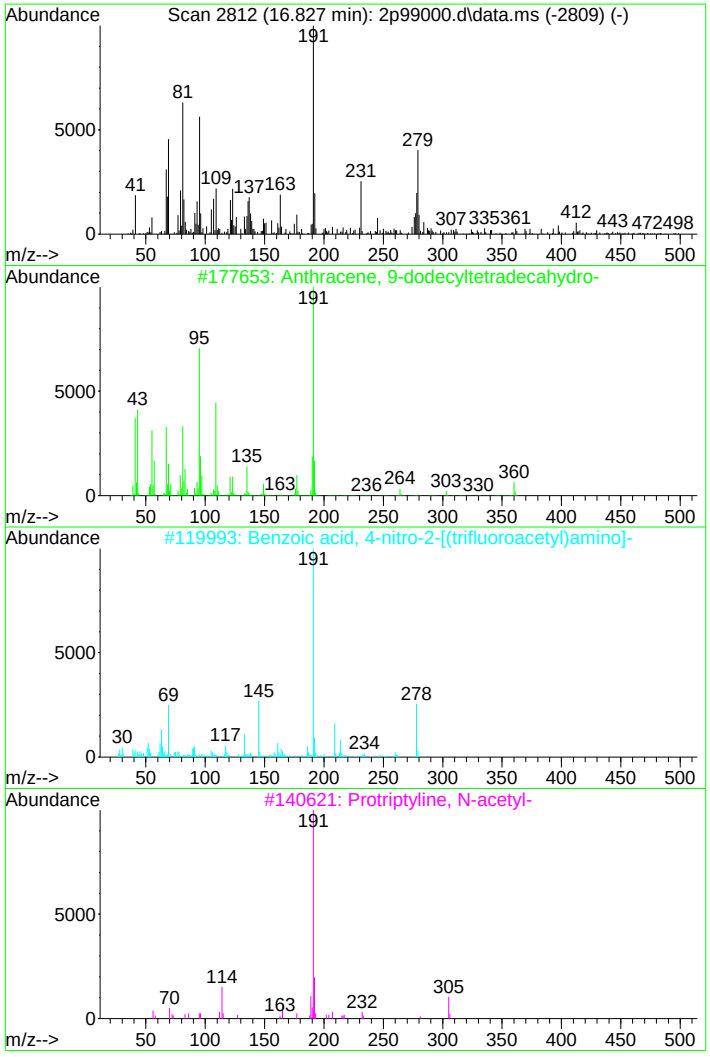
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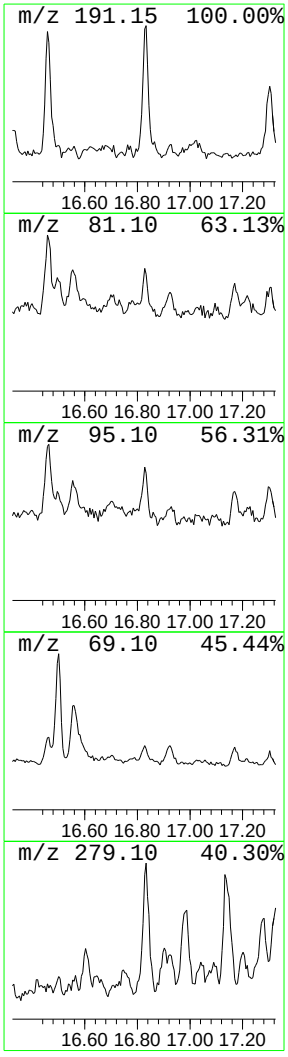
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Peak Number 11 Unknown Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.827	10.92 ppm	880153	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9-dodecyltetradecahy...	360	C26H48	055401-75-7	37
2	Benzoic acid, 4-nitro-2-[(triflu...	278	C9H5F3N2O5	091533-09-4	30
3	Protriptyline, N-acetyl-	305	C21H23NO	023047-28-1	22
4	4(1H)-Pteridinone, 2-amino-6,7-d...	191	C8H9N5O	000611-55-2	22
5	5H-Benzo[def]carbazole	191	C14H9N	000203-65-6	22





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

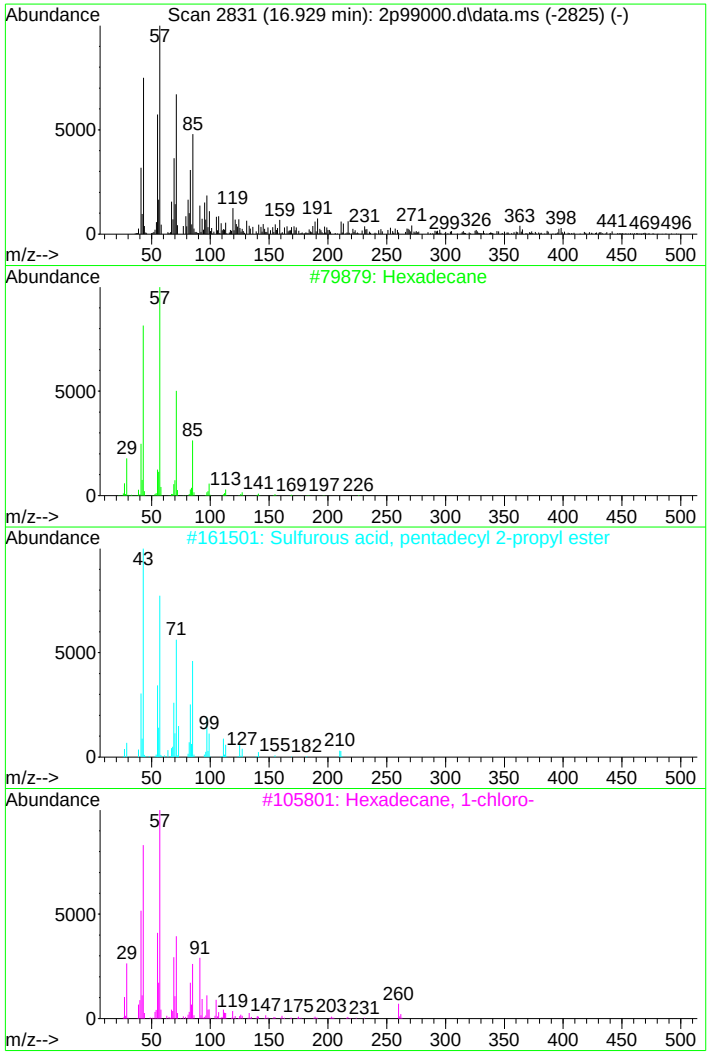
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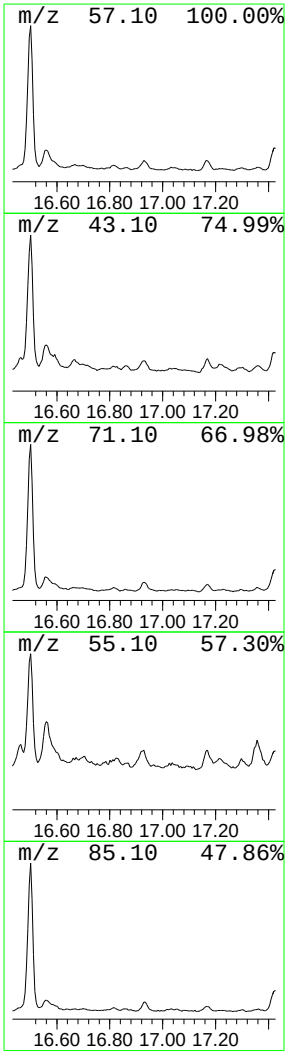
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Peak Number 12 Unknown Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.929	11.24 ppm	905250	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	83
2	Sulfurous acid, pentadecyl 2-pro...	334	C18H38O3S	1000309-12-6	72
3	Hexadecane, 1-chloro-	260	C16H33Cl	004860-03-1	72
4	Docosane, 1,22-dibromo-	466	C22H44Br2	034540-49-3	70
5	Tridecane, 6-propyl-	226	C16H34	055045-10-8	60





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

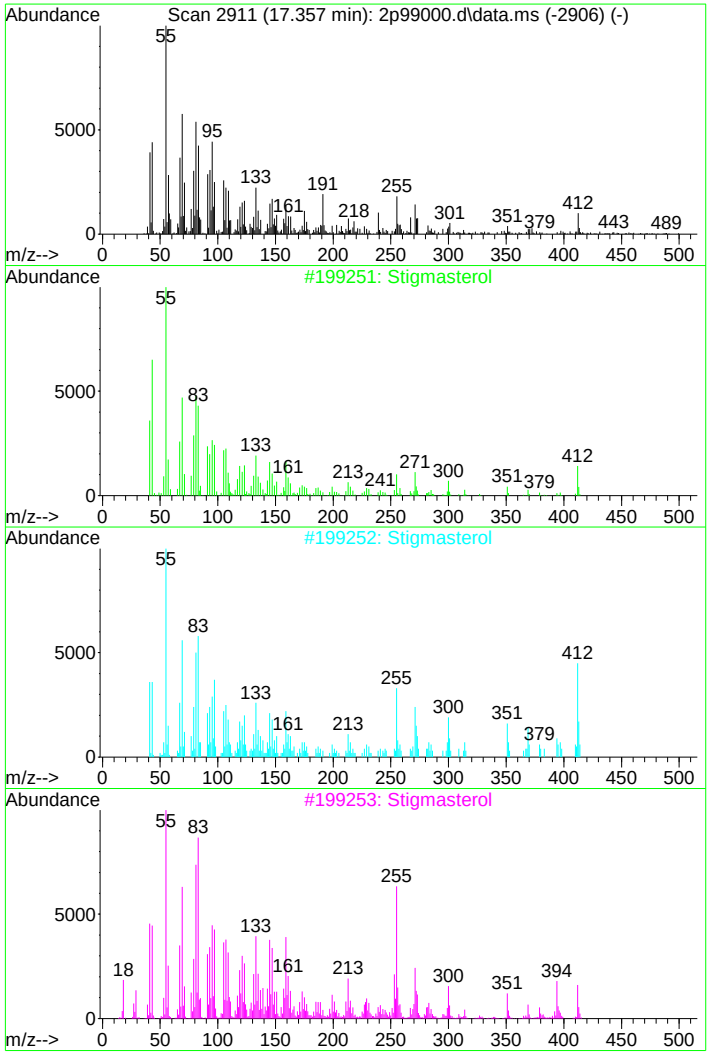
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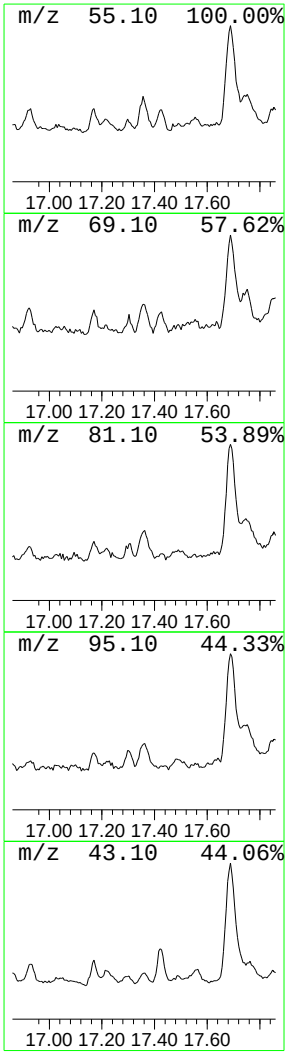
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Peak Number 13 Stigmasterol Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.357	15.09 ppm	1216090	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Stigmasterol	412	C29H48O	000083-48-7	93
2	Stigmasterol	412	C29H48O	000083-48-7	83
3	Stigmasterol	412	C29H48O	000083-48-7	64
4	Cholesta-22,24-dien-5-ol, 4,4-di...	412	C29H48O	1000128-66-1	52
5	Ergost-25-ene-3,5,6,12-tetrol, (...	448	C28H48O4	056052-97-2	32





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

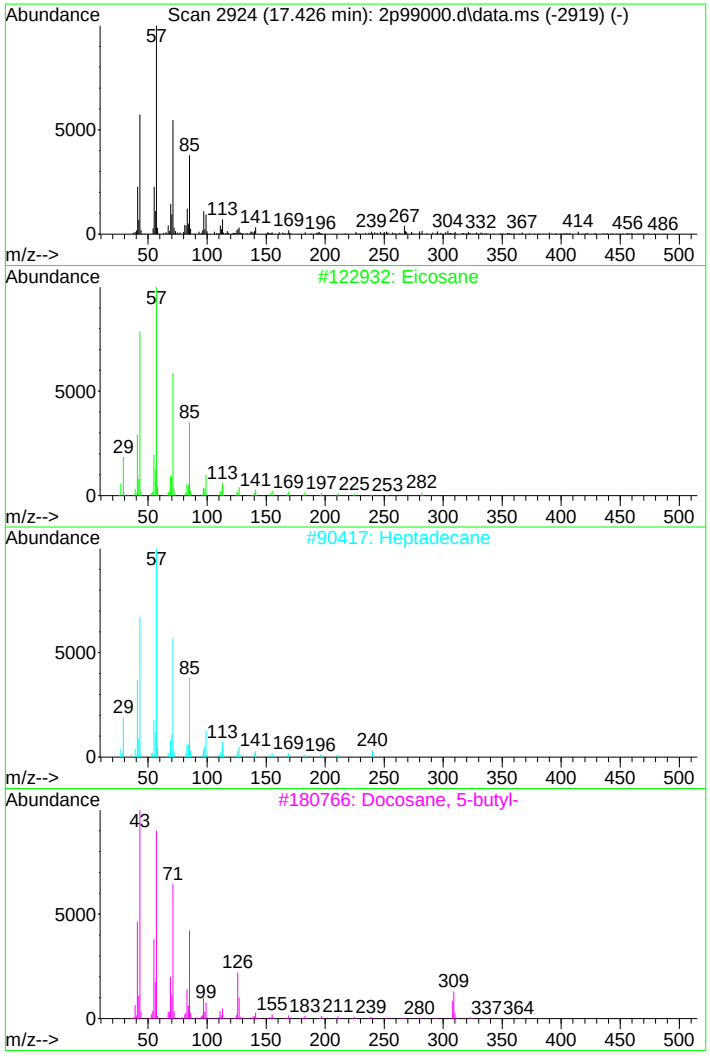
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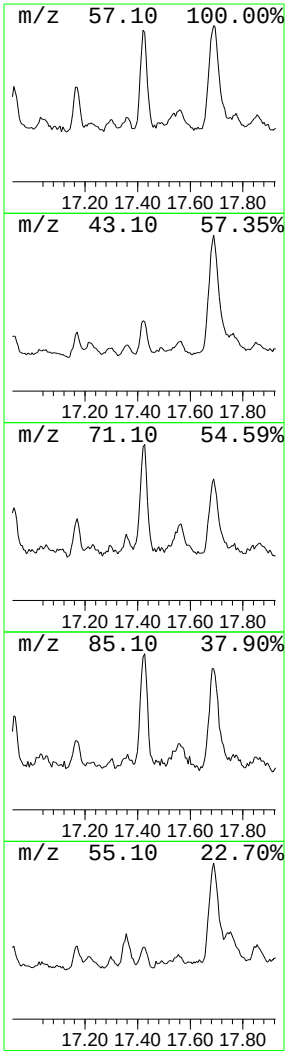
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Peak Number 14 Alkane Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.426	10.76 ppm	866815	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane	282	C20H42	000112-95-8	90
2	Heptadecane	240	C17H36	000629-78-7	90
3	Docosane, 5-butyl-	366	C26H54	055282-16-1	90
4	Octadecane, 5,14-dibutyl-	366	C26H54	055282-13-8	83
5	Tetratetracontane	619	C44H90	007098-22-8	83





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

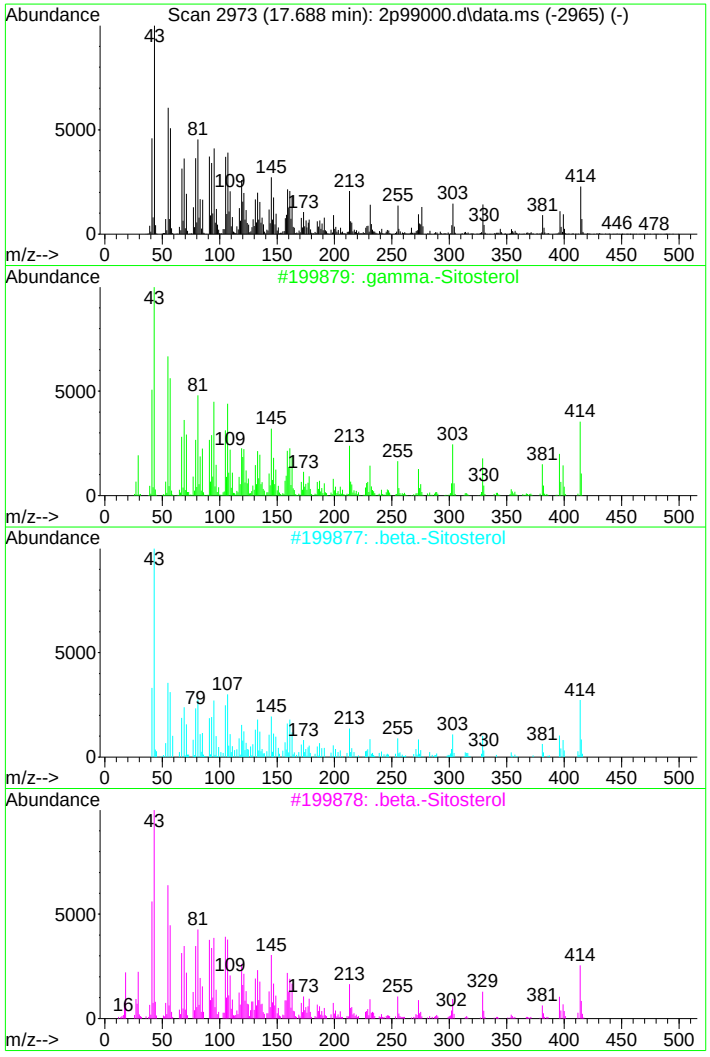
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TIC Integration Parameters: lscint.p

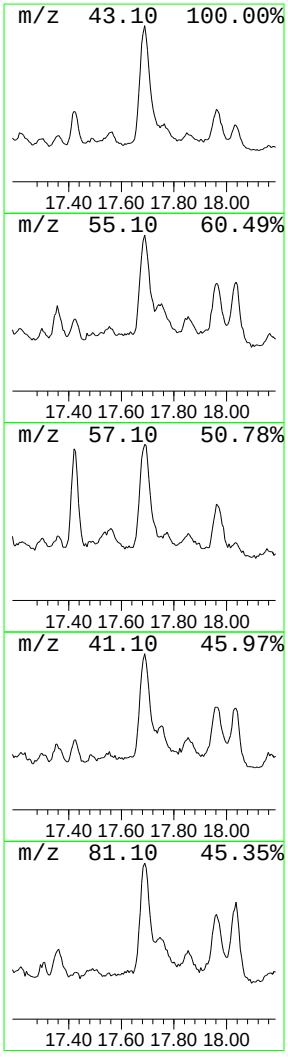
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Peak Number 15 Sitosterol Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.688	140.84 ppm	11346900	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.gamma.-Sitosterol	414	C29H50O	000083-47-6	99
2	.beta.-Sitosterol	414	C29H50O	000083-46-5	95
3	.beta.-Sitosterol	414	C29H50O	000083-46-5	95
4	.gamma.-Sitosterol	414	C29H50O	000083-47-6	94
5	17-(1,5-Dimethylhexyl)-10,13-dim...	414	C29H50O	1000210-86-9	86





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

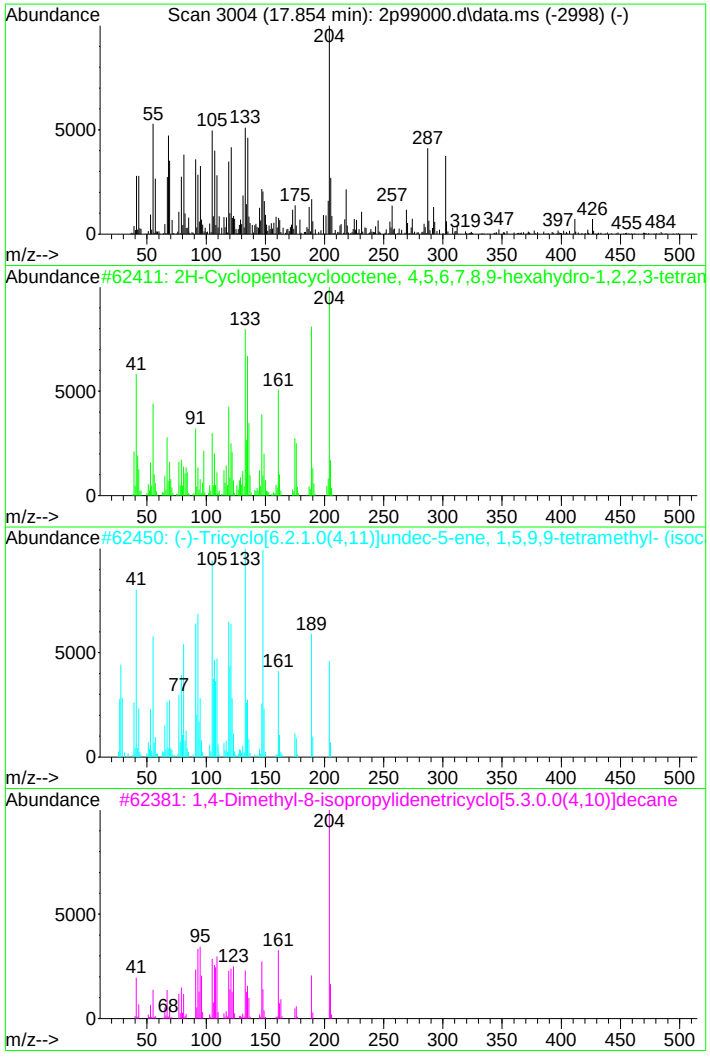
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TIC Integration Parameters: lscint.p

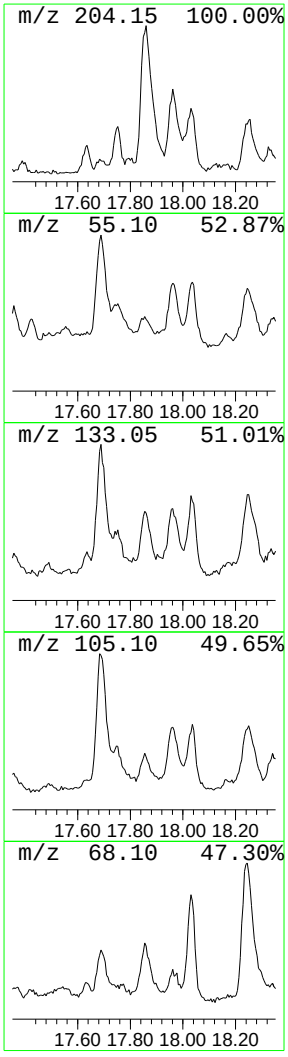
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Peak Number 16 Unknown Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.854	28.77 ppm	2317890	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2H-Cyclopentacyclooctene, 4,5,6,...	204	C15H24	1000221-85-8	53
2	(-)-Tricyclo[6.2.1.0(4,11)]undec...	204	C15H24	1000154-06-7	43
3	1,4-Dimethyl-8-isopropylidenetri...	204	C15H24	1000140-07-7	30
4	1,4-Naphthalenedione, 5,8-dihydr...	204	C11H8O4	014554-09-7	25
5	.beta.-D-Glucopyranoside, methyl...	482	C19H46O6Si4	002296-40-4	16





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

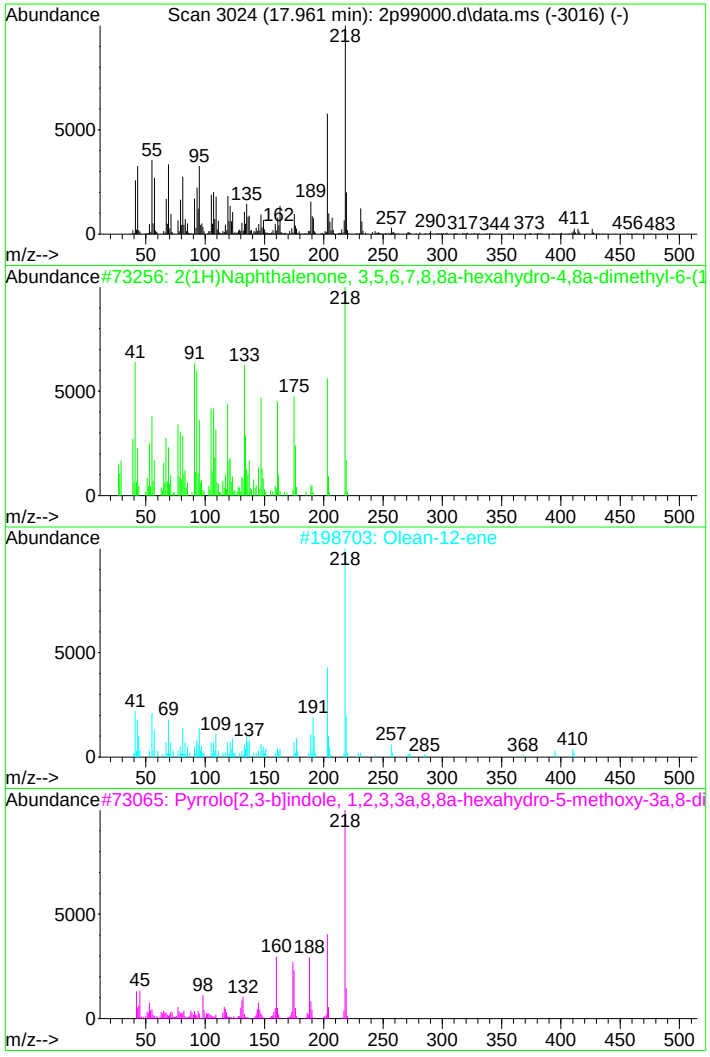
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TIC Integration Parameters: lscint.p

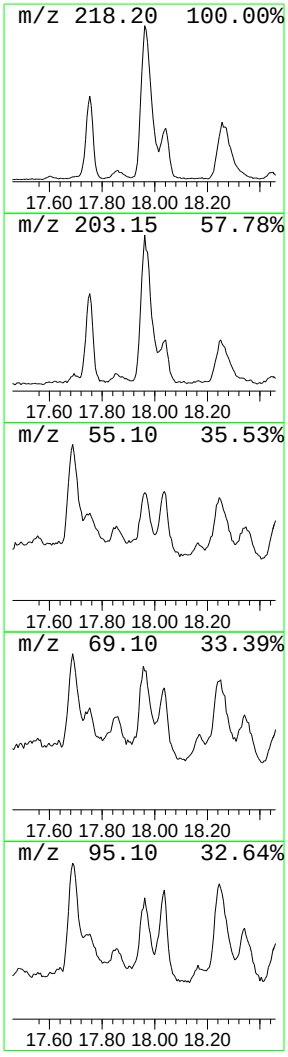
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Peak Number 17 Unknown Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.961	82.05 ppm	6610420	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2(1H)Naphthalenone, 3,5,6,7,8,8a...	218	C15H22O	1000188-66-5	80
2	Olean-12-ene	410	C30H50	000471-68-1	72
3	Pyrrolo[2,3-b]indole, 1,2,3,3a,8...	218	C13H18N2O	046479-70-3	70
4	.alpha.-Amyrin	426	C30H50O	000638-95-9	60
5	(1S,6R,9S)-5,5,9,10-Tetramethylt...	218	C16H26	1000298-97-8	58





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

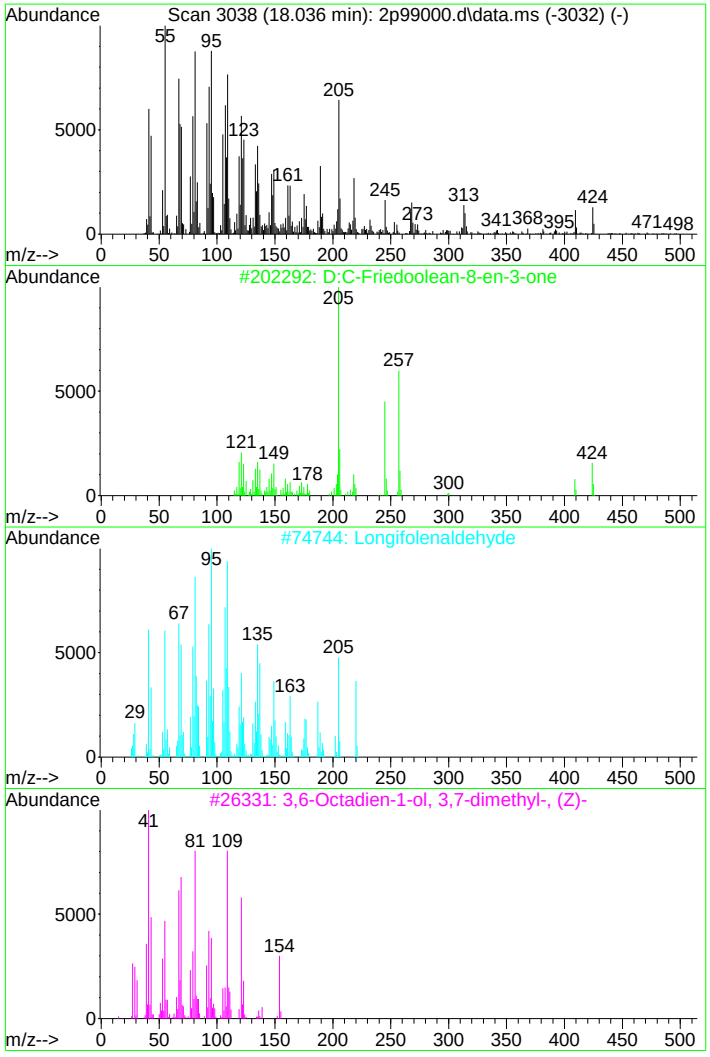
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TIC Integration Parameters: lscint.p

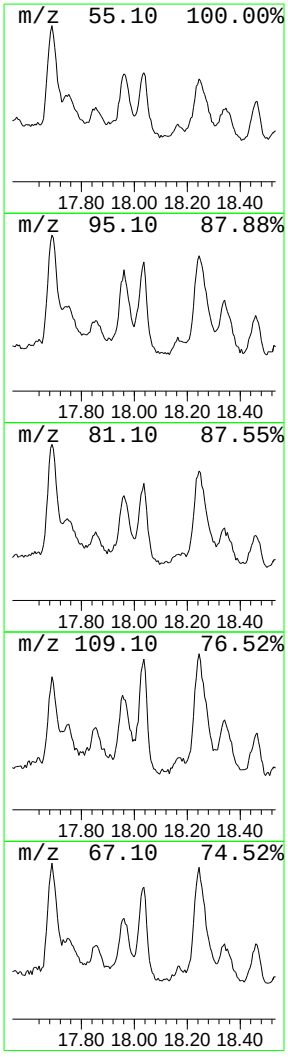
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Peak Number 18 Unknown Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.036	75.36 ppm	6071330	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	D:C-Friedoolean-8-en-3-one	424	C30H48O	022611-26-3	94
2	Longifolenaldehyde	220	C15H24O	019890-84-7	50
3	3,6-Octadien-1-ol, 3,7-dimethyl-...	154	C10H18O	005944-20-7	49
4	Iridomyrmecin	168	C10H16O2	000485-43-8	49
5	1,5-Dibromo-3-cyclohexylpentane	310	C11H20Br2	070928-50-6	46





Library Search Compound Report

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Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On    : 15 Jan 2021    9:44 pm
Operator  : hennys
Sample    : jd18939-2
Misc      : op31540,e2p4412,30.7,,,1,1
ALS Vial  : 20   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title  : Semi Volatile Extractables by GC/MS

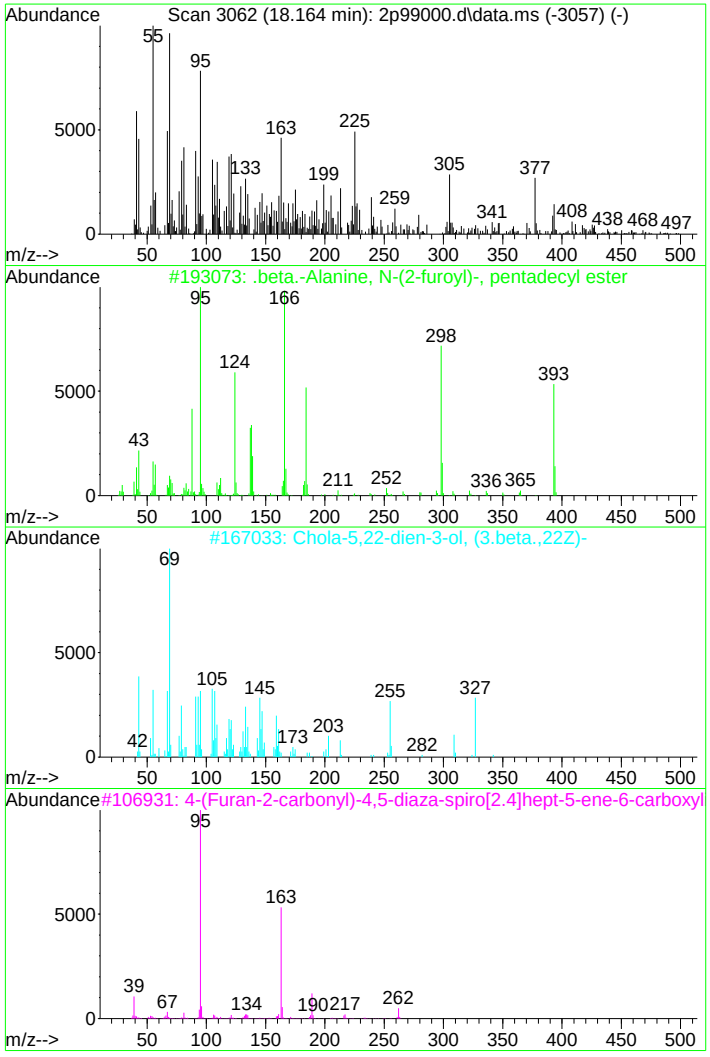
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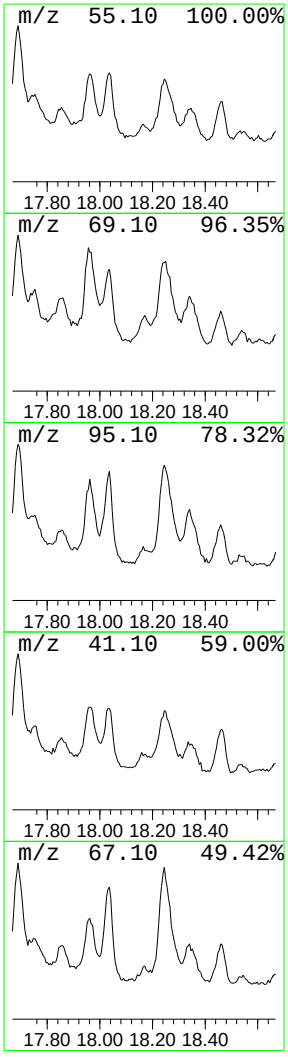
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Peak Number 19 Unknown Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.165	10.82 ppm	871524	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.beta.-Alanine, N-(2-furoyl)-, p...	393	C23H39NO4	1000321-98-4	59
2	Chola-5,22-dien-3-ol, (3.beta.,2...	342	C24H38O	057597-14-5	18
3	4-(Furan-2-carbonyl)-4,5-diaza-s...	262	C13H14N2O4	1000276-03-0	16
4	1,3-Dioxolane, 4-butyl-5-ethyl-2...	294	C11H16F6O2	038363-90-5	12
5	1,3-Dioxolane, 4-butyl-5-ethyl-2...	294	C11H16F6O2	038363-91-6	12





Library Search Compound Report

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Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On    : 15 Jan 2021    9:44 pm
Operator  : hennys
Sample    : jd18939-2
Misc      : op31540,e2p4412,30.7,,,1,1
ALS Vial  : 20   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title  : Semi Volatile Extractables by GC/MS

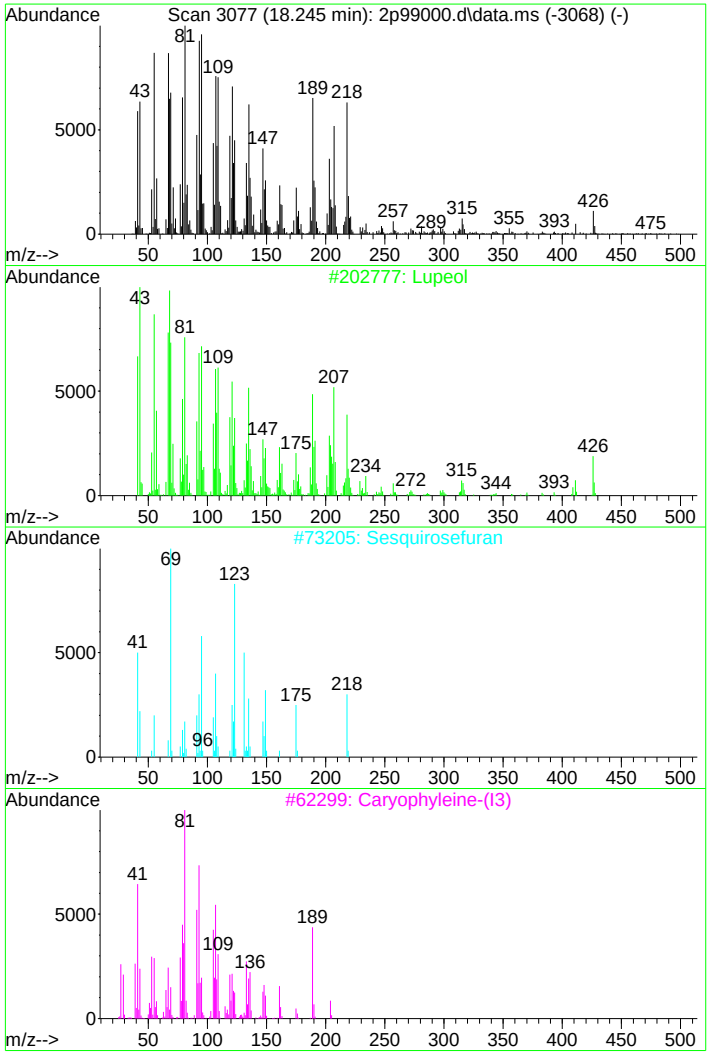
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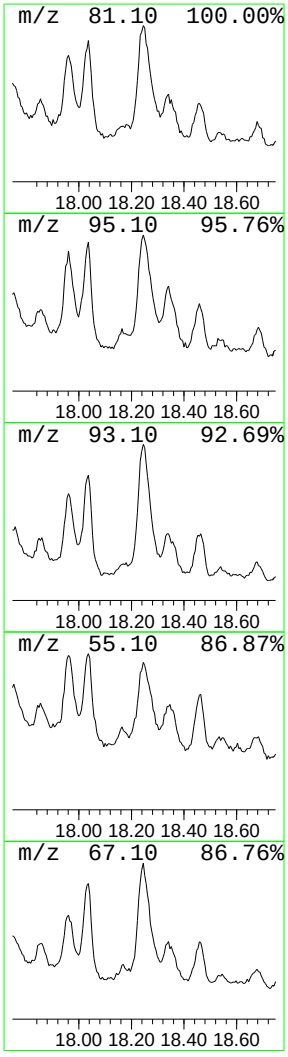
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Peak Number 20 Unknown Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.245	120.98 ppm	9747120	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Lupeol	426	C30H50O	000545-47-1	70
2	Sesquirosefuran	218	C15H22O	039007-93-7	55
3	Caryophyleine-(I3)	204	C15H24	136296-37-2	51
4	4,8-Methanoazulen-9-ol, decahydr...	222	C15H26O	004586-22-5	49
5	Taraxasterol	426	C30H50O	001059-14-9	47





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

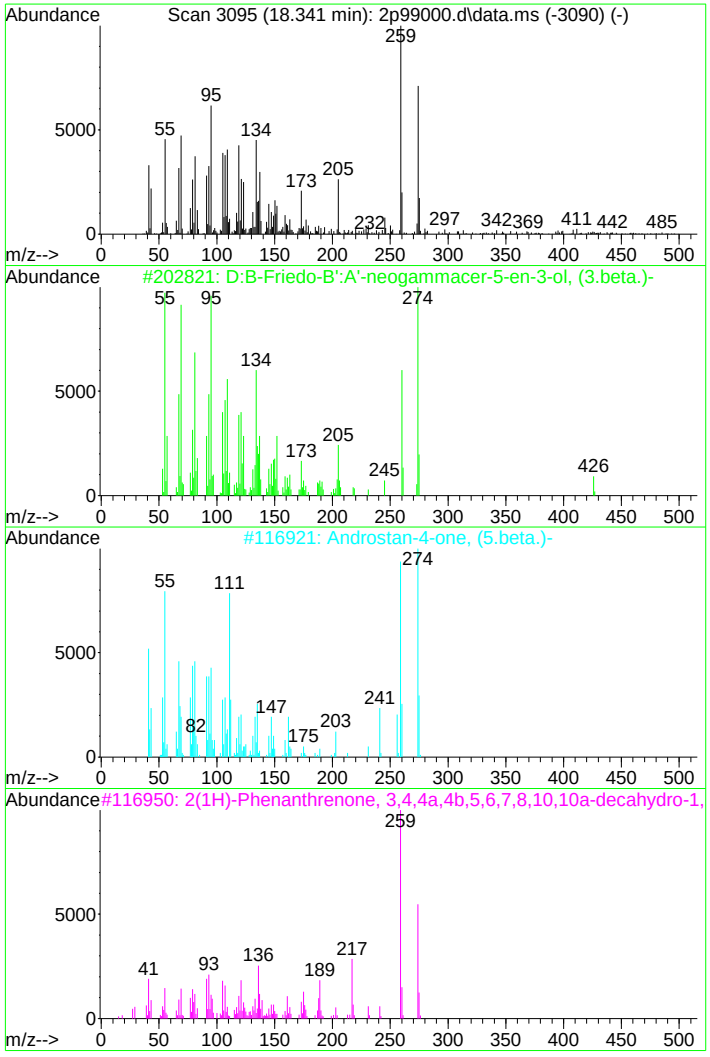
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TIC Integration Parameters: lscint.p

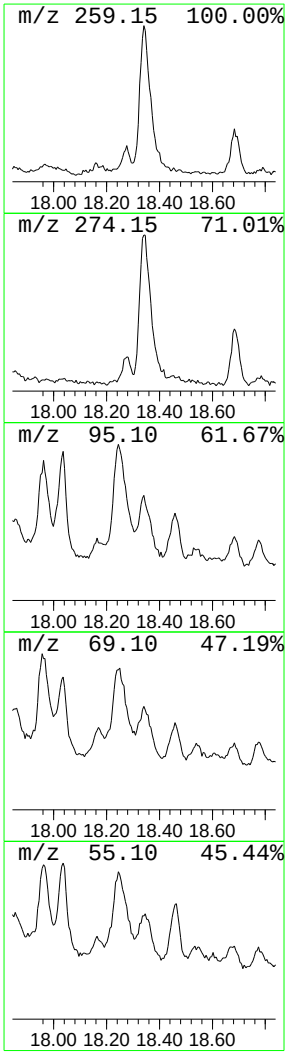
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Peak Number 21 Unknown Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.341	43.65 ppm	3516610	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	D:B-Friedo-B':A'-neogammacer-5-e...	426	C30H50O	001615-94-7	43
2	Androstan-4-one, (5.beta.)-	274	C19H30O	013583-71-6	42
3	2(1H)-Phenanthrenone, 3,4,4a,4b,...	274	C19H30O	007715-44-8	38
4	10H-Phenoxaphosphine, 2-ethyl-10...	274	C15H15O3P	036360-91-5	35
5	1-[p-Nitrophenyl]-3-[2-pyrimidyl...	259	C11H9N5O3	023656-31-7	27





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

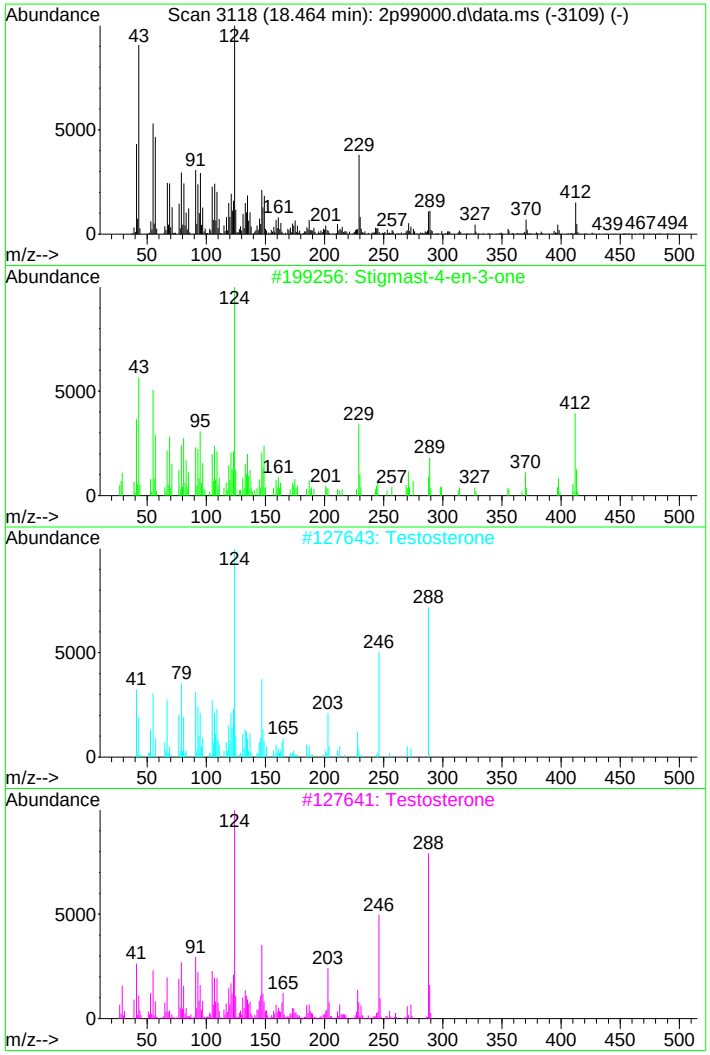
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TIC Integration Parameters: lscint.p

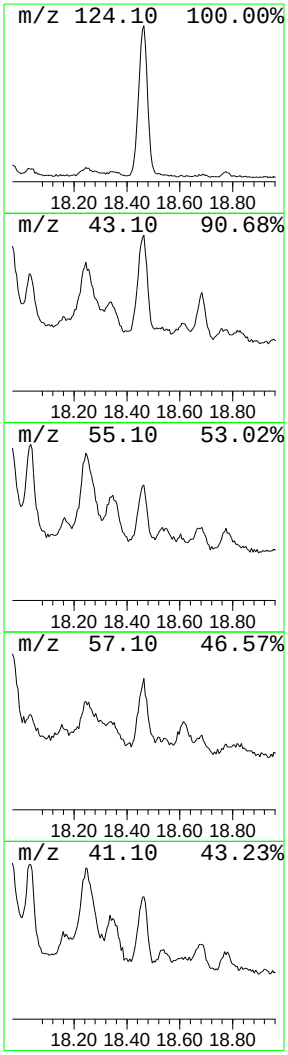
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Peak Number 22 Stigmastenone Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.464	47.49 ppm	3826450	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Stigmast-4-en-3-one	412	C29H48O	001058-61-3	96
2	Testosterone	288	C19H28O2	000058-22-0	70
3	Testosterone	288	C19H28O2	000058-22-0	70
4	Androst-4-en-3-one, 17-hydroxy-,...	288	C19H28O2	000604-39-7	49
5	5-Bromovaleric acid, 2,6-dimethy...	328	C16H25BrO2	1000292-56-9	49





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

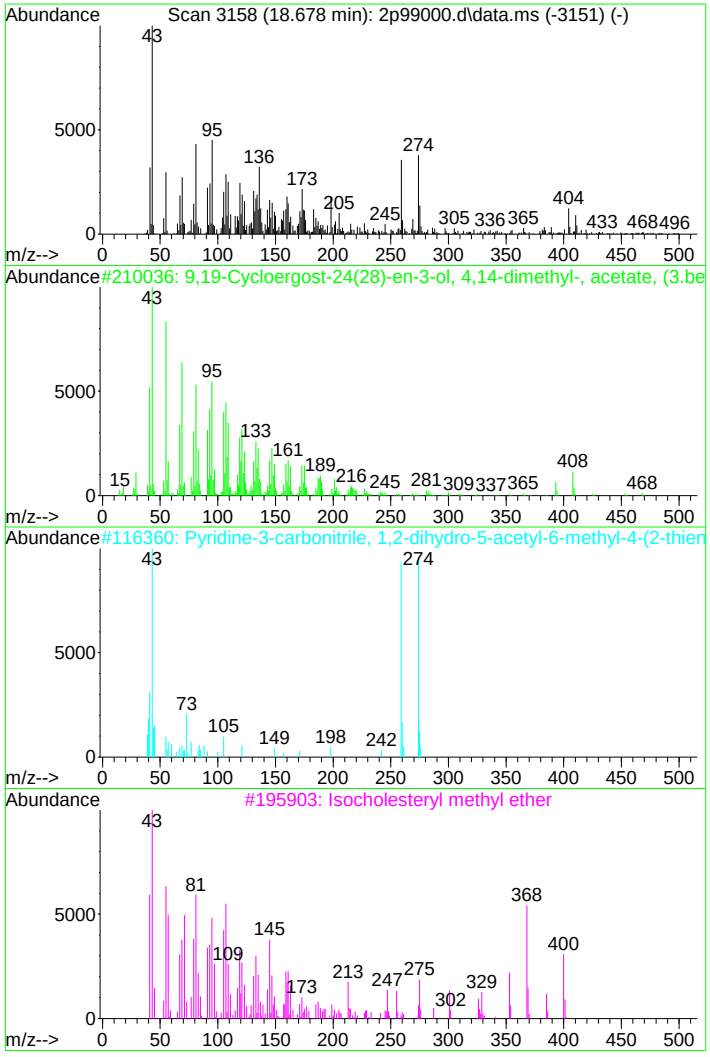
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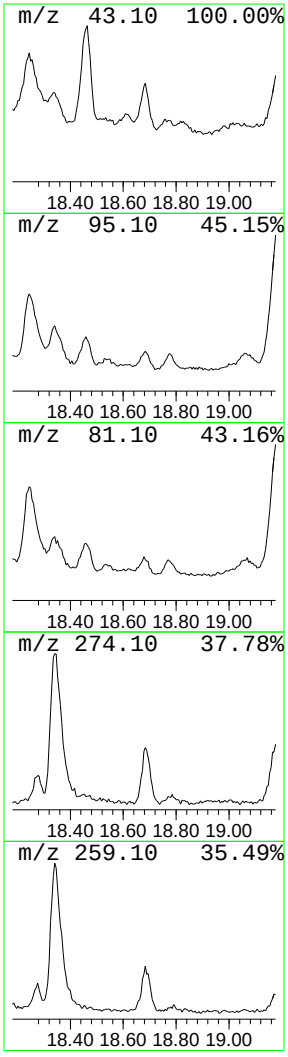
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Peak Number 23 Unknown Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.678	28.29 ppm	2279610	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,19-Cycloergost-24(28)-en-3-ol,...	468	C32H52O2	010376-42-8	18
2	Pyridine-3-carbonitrile, 1,2-dih...	274	C13H10N2OS2	179088-20-1	14
3	Isocholesteryl methyl ether	400	C28H48O	029944-53-4	9
4	5.beta.,6.beta.-Epoxycholest-7-e...	400	C27H44O2	095841-71-7	9
5	Octopamine	153	C8H11NO2	000104-14-3	7





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

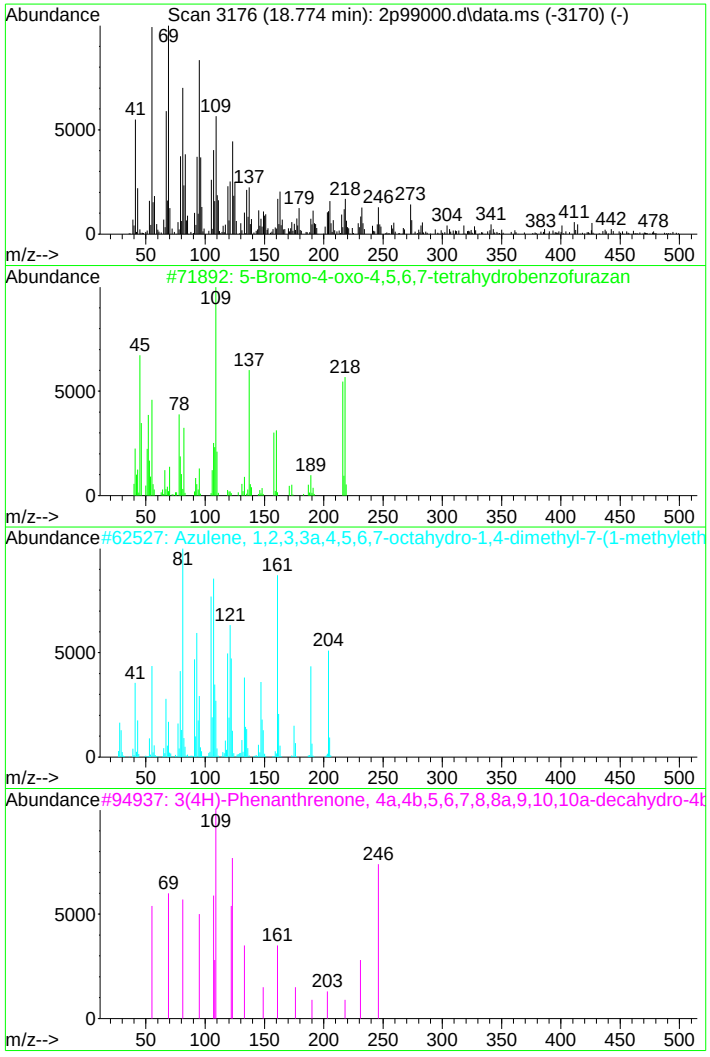
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TIC Integration Parameters: lscint.p

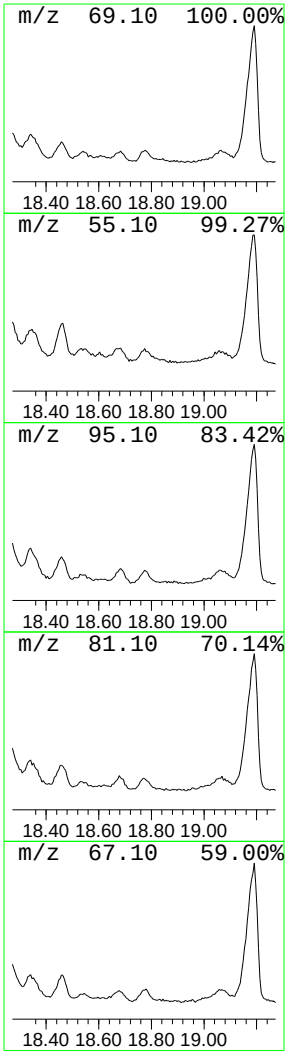
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Peak Number 24 Unknown Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.774	17.22 ppm	1387720	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Bromo-4-oxo-4,5,6,7-tetrahydro...	216	C6H5BrN2O2	300574-36-1	68
2	Azulene, 1,2,3,3a,4,5,6,7-octahy...	204	C15H24	022567-17-5	59
3	3(4H)-Phenanthrenone, 4a,4b,5,6,...	246	C17H26O	057684-12-5	52
4	Sandaracopimar-15-ene-6.beta.,8....	322	C20H34O3	041756-31-4	50
5	Bicyclo[3.1.1]heptane, 2,6,6-tri...	138	C10H18	000473-55-2	42





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

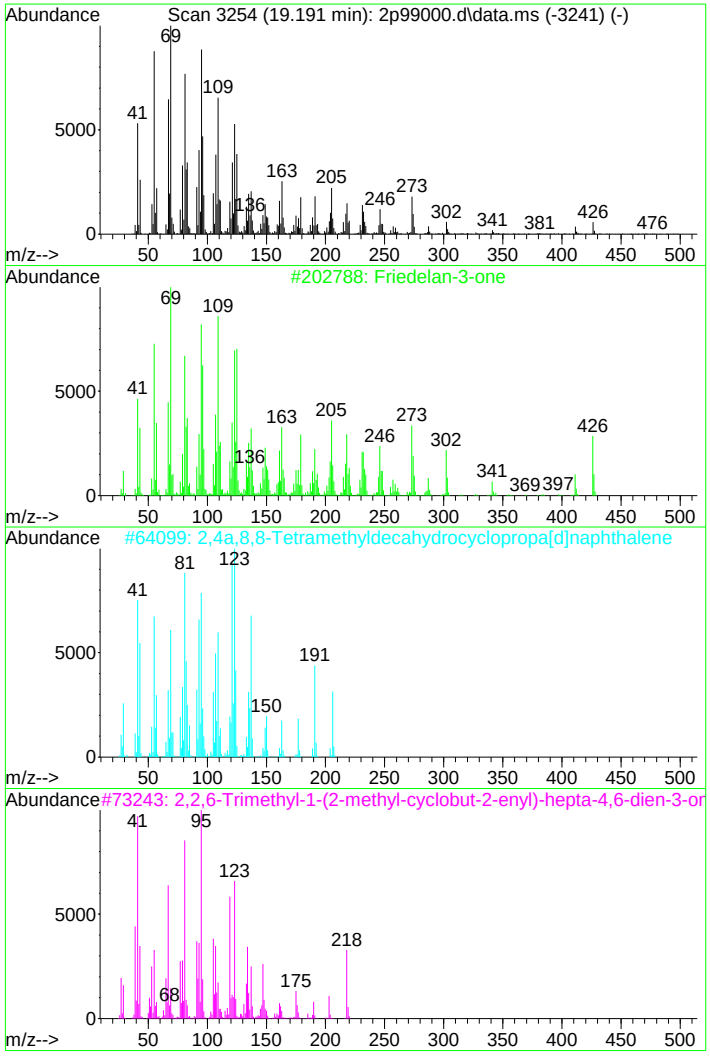
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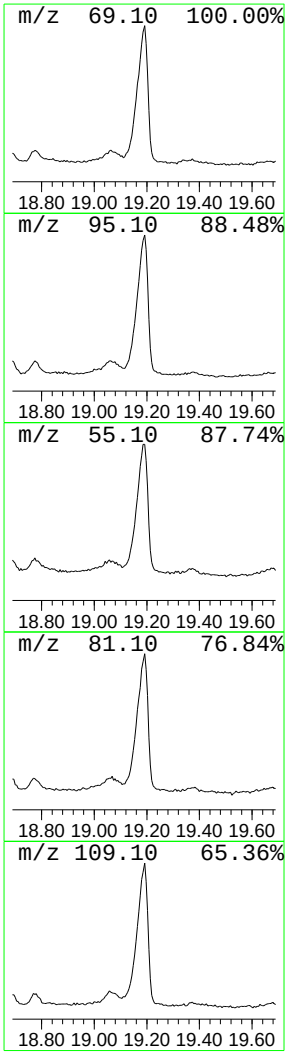
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Peak Number 25 Unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.191	178.20 ppm	14356800	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Friedelan-3-one	426	C30H50O	000559-74-0	96
2	2,4a,8,8-Tetramethyldecahydrocyc...	206	C15H26	074022-04-1	86
3	2,2,6-Trimethyl-1-(2-methyl-cycl...	218	C15H22O	1000188-72-8	64
4	5-Bromo-4-oxo-4,5,6,7-tetrahydro...	216	C6H5BrN2O2	300574-36-1	59
5	7-Tetradecyne	194	C14H26	035216-11-6	49





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Bisnorabieta-pe...	11.479	15.8	ppm	1453490	11	9.462	3678150	40.0
Alkane	14.677	28.0	ppm	4070990	14	13.629	5818250	40.0
Unknown	15.132	14.1	ppm	1137650	15	15.752	3222700	40.0
Unknown	15.340	8.5	ppm	682171	15	15.752	3222700	40.0
Alkane	15.618	99.5	ppm	8012600	15	15.752	3222700	40.0
Unknown	16.057	11.9	ppm	954698	15	15.752	3222700	40.0
Unknown alcohols	16.260	16.4	ppm	1325650	15	15.752	3222700	40.0
Unknown	16.464	21.3	ppm	1716440	15	15.752	3222700	40.0
Alkane	16.501	74.7	ppm	6015640	15	15.752	3222700	40.0
Unknown	16.560	35.7	ppm	2875660	15	15.752	3222700	40.0
Unknown	16.827	10.9	ppm	880153	15	15.752	3222700	40.0
Unknown	16.929	11.2	ppm	905250	15	15.752	3222700	40.0
Stigmasterol	17.357	15.1	ppm	1216090	15	15.752	3222700	40.0
Alkane	17.426	10.8	ppm	866815	15	15.752	3222700	40.0
Sitosterol	17.688	140.8	ppm	11346900	15	15.752	3222700	40.0
Unknown	17.854	28.8	ppm	2317890	15	15.752	3222700	40.0
Unknown	17.961	82.0	ppm	6610420	15	15.752	3222700	40.0
Unknown	18.036	75.4	ppm	6071330	15	15.752	3222700	40.0
Unknown	18.165	10.8	ppm	871524	15	15.752	3222700	40.0
Unknown	18.245	121.0	ppm	9747120	15	15.752	3222700	40.0
Unknown	18.341	43.6	ppm	3516610	15	15.752	3222700	40.0
Stigmastenone	18.464	47.5	ppm	3826450	15	15.752	3222700	40.0
Unknown	18.678	28.3	ppm	2279610	15	15.752	3222700	40.0
Unknown	18.774	17.2	ppm	1387720	15	15.752	3222700	40.0
Unknown	19.191	178.2	ppm	14356800	15	15.752	3222700	40.0

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3 Inst : MS2P
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Results File: M2P4365.RES
Quant Time: Jan 18 04:09:12 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jan 18 03:08:11 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.435	152	491760	40.00	ppm	0.00
24) Naphthalene-d8	5.419	136	1732455	40.00	ppm	0.00
47) Acenaphthene-d10	7.350	164	994022	40.00	ppm	0.00
69) Phenanthrene-d10	9.468	188	1587733	40.00	ppm	0.00
83) Chrysene-d12	13.640	240	1429985	40.00	ppm	0.02
91) Perylene-d12	15.758	264	1579449	40.00	ppm	0.03
101) 1,4-Dichlorobenzene-d4a	4.435	152	491760	40.00	ppm	0.00
103) Naphthalene-d8a	5.419	136	1732455	40.00	ppm	0.00
105) Acenaphthene-d10a	7.350	164	994022	40.00	ppm	0.00
107) Chrysene-d12a	13.640	240	1429985	40.00	ppm	0.02
109) Phenanthrene-d10a	9.468	188	1587733	40.00	ppm	0.00
112) 1,4-Dichlorobenzene-d4b	4.435	152	491760	40.00	ppm	0.00
115) Acenaphthene-d10b	7.350	164	994620	40.00	ppm	0.00
117) Phenanthrene-d10b	9.468	188	1587733	40.00	ppm	0.00
120) Chrysene-d12b	13.640	240	1429985	40.00	ppm	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	3.520	112	388169	23.16	ppm	0.02
Spiked Amount 50.000	Range 11 - 58		Recovery = 46.32%			
8) Phenol-d5	4.231	99	502615	23.68	ppm	0.01
Spiked Amount 50.000	Range 10 - 59		Recovery = 47.36%			
25) Nitrobenzene-d5	4.841	82	584213	30.04	ppm	0.00
Spiked Amount 50.000	Range 19 - 61		Recovery = 60.08%			
51) 2-Fluorobiphenyl	6.526	172	832652	25.47	ppm	0.00
Spiked Amount 50.000	Range 21 - 58		Recovery = 50.94%			
73) 2,4,6-Tribromophenol	8.457	330	167715	29.21	ppm	0.00
Spiked Amount 50.000	Range 12 - 68		Recovery = 58.42%			
85) Terphenyl-d14	12.024	244	1041964	31.29	ppm	0.02
Spiked Amount 50.000	Range 16 - 65		Recovery = 62.58%			
118) 1-Chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000	Range 15 - 64		Recovery = 0.00%#			
119) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000	Range 15 - 64		Recovery = 0.00%#			
Target Compounds						Qvalue
38) Naphthalene	5.440	128	10373	0.24	ppm	93
44) 2-Methylnaphthalene	6.114	141	4143	0.18	ppm	96
56) Acenaphthylene	7.162	152	67041	1.47	ppm	97
59) Acenaphthene	7.387	153	12714	0.42	ppm	98
62) Dibenzofuran	7.628	168	10595	0.26	ppm	90
66) Fluorene	8.098	166	18894	0.58	ppm	97
77) Phenanthrene	9.500	178	503302	11.92	ppm	99
78) Anthracene	9.580	178	177140	4.19	ppm	98
79) Carbazole	9.874	167	48204	1.21	ppm	96
81) Fluoranthene	11.356	202	1640041	35.39	ppm	98
84) Pyrene	11.693	202	1492849	35.19	ppm	97
87) Benzo[a]anthracene	13.623	228	811968	19.53	ppm	99
89) Chrysene	13.672	228	758470	19.05	ppm	98
93) Benzo[b]fluoranthene	15.239	252	1097761	23.27	ppm	97
94) Benzo[k]fluoranthene	15.271	252	299074	6.87	ppm	96
95) Benzo[a]pyrene	15.672	252	781225	19.07	ppm	96
96) Indeno[1,2,3-cd]pyrene	17.122	276	586570	13.35	ppm	97
98) Dibenz[a,h]anthracene	17.138	278	158747	3.48	ppm	95
100) Benzo[g,h,i]perylene	17.475	276	578861	13.37	ppm	99

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3 Inst : MS2P
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Results File: M2P4365.RES
Quant Time: Jan 18 04:09:12 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jan 18 03:08:11 2021
Response via : Initial Calibration

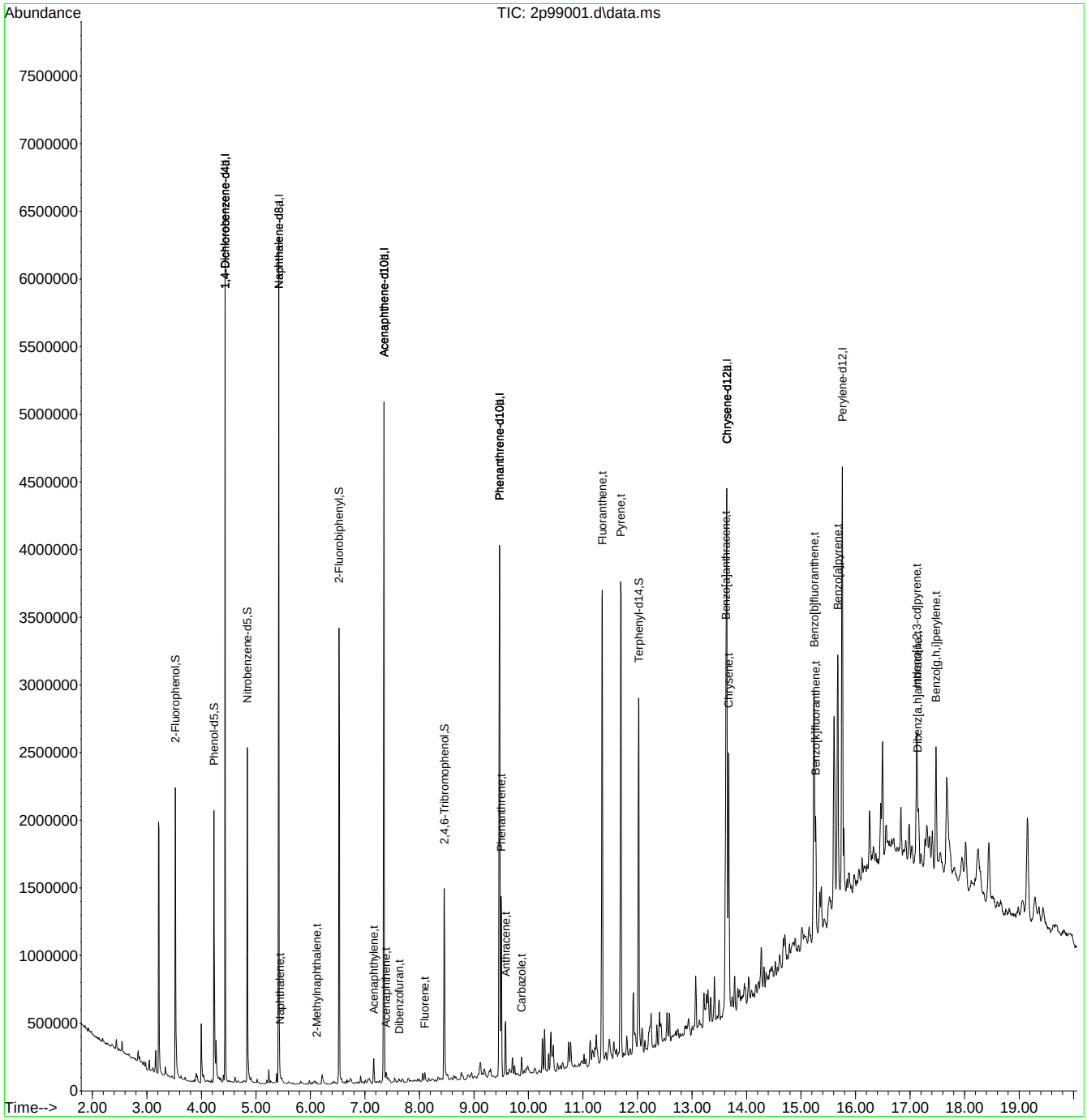
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

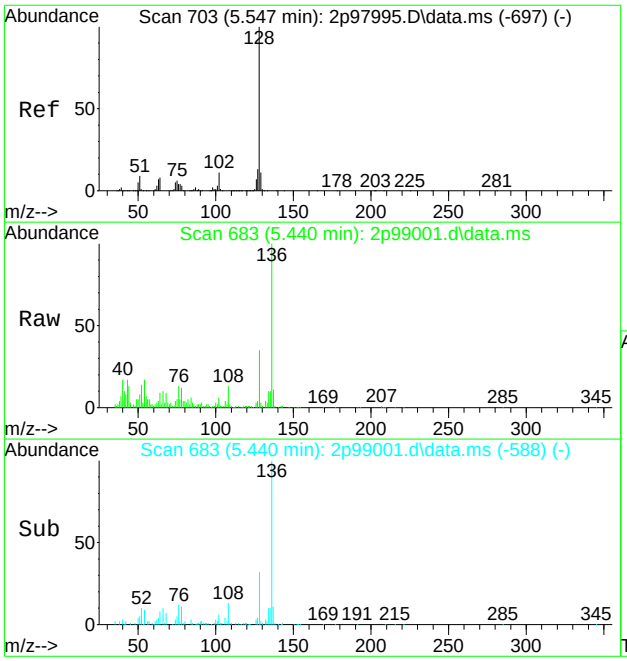
Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3 Inst : MS2P
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Results File: M2P4365.RES
Quant Time: Jan 18 04:09:12 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jan 18 03:08:11 2021
Response via : Initial Calibration



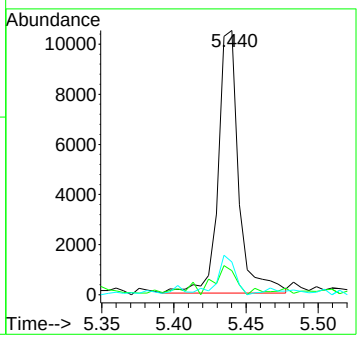
M2P4365.M Mon Jan 18 05:02:19 2021 Page: 3

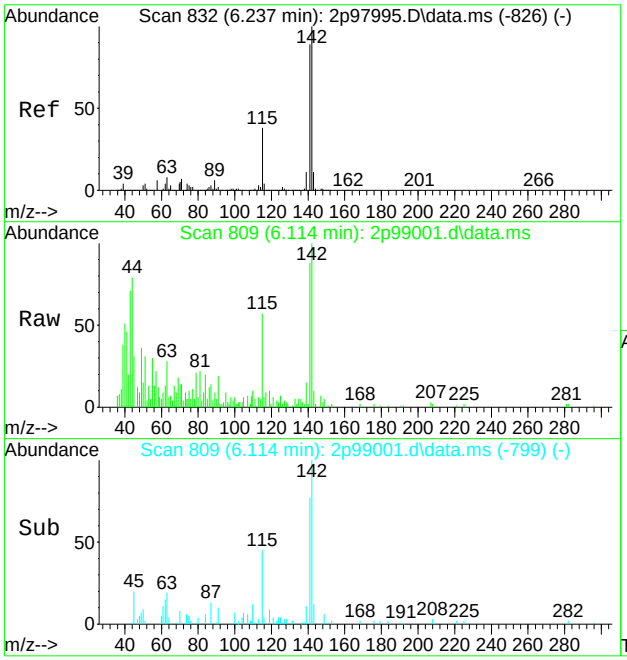


#38
Naphthalene
Concen: 0.24 ppm
RT: 5.440 min Scan# 683
Delta R.T. 0.006 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:128 Resp: 10373

Ion	Ratio	Lower	Upper
128	100		
129	7.6	0.0	41.2
127	11.7	0.0	43.7

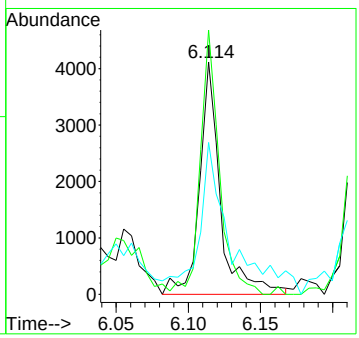


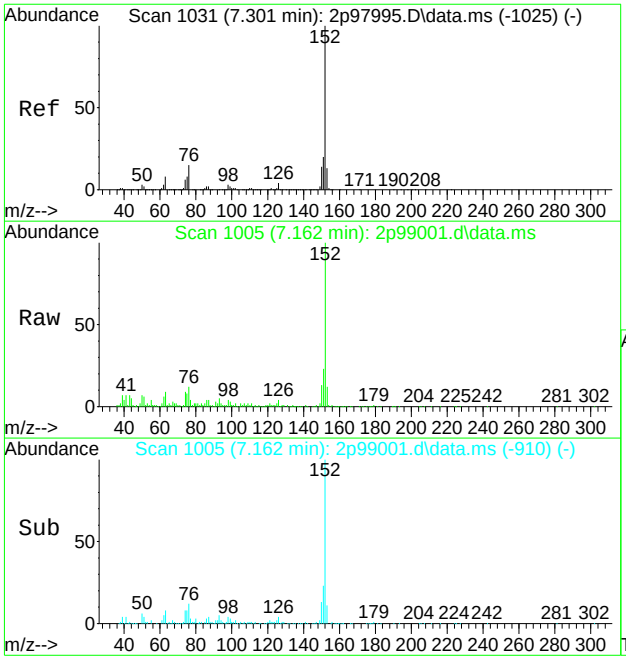


#44
2-Methylnaphthalene
Concen: 0.18 ppm
RT: 6.114 min Scan# 809
Delta R.T. 0.006 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:141 Resp: 4143

Ion	Ratio	Lower	Upper
141	100		
142	113.0	88.6	148.6
115	58.2	27.1	87.1

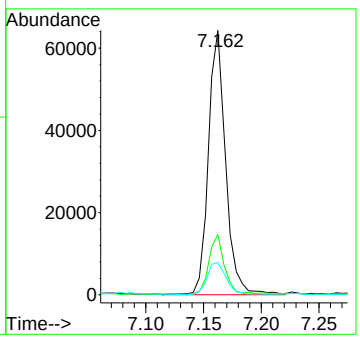


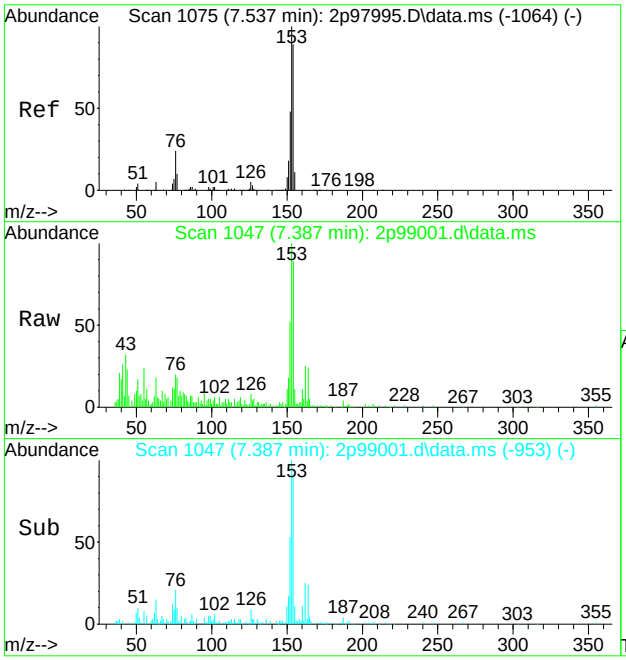


#56
Acenaphthylene
Concen: 1.47 ppm
RT: 7.162 min Scan# 1005
Delta R.T. 0.006 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:152 Resp: 67041

Ion	Ratio	Lower	Upper
152	100		
151	22.4	0.0	50.7
153	12.0	0.0	42.9

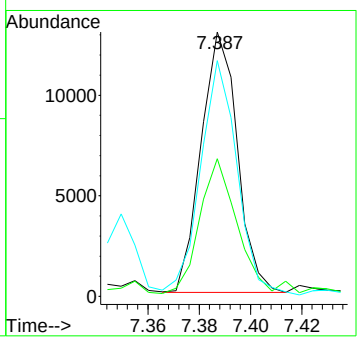


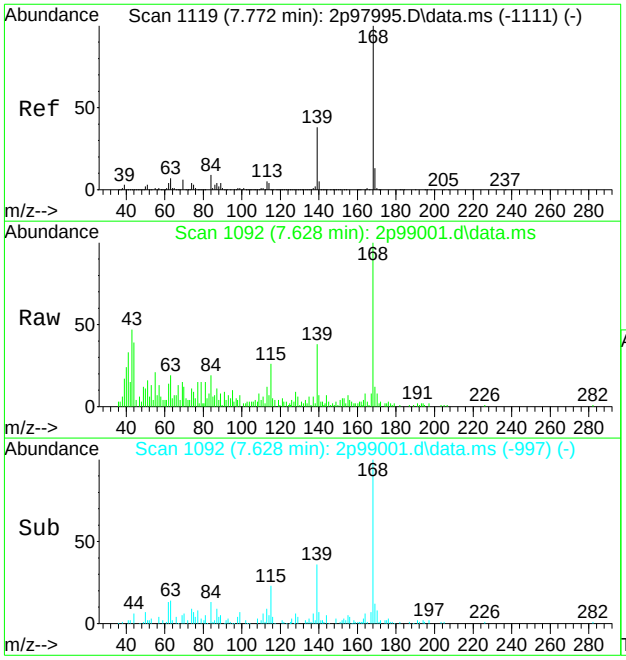


#59
Acenaphthene
Concen: 0.42 ppm
RT: 7.387 min Scan# 1047
Delta R.T. 0.000 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:153 Resp: 12714

Ion	Ratio	Lower	Upper
153	100		
152	49.4	18.0	78.0
154	88.5	60.1	120.1

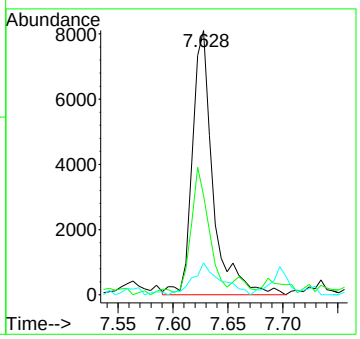


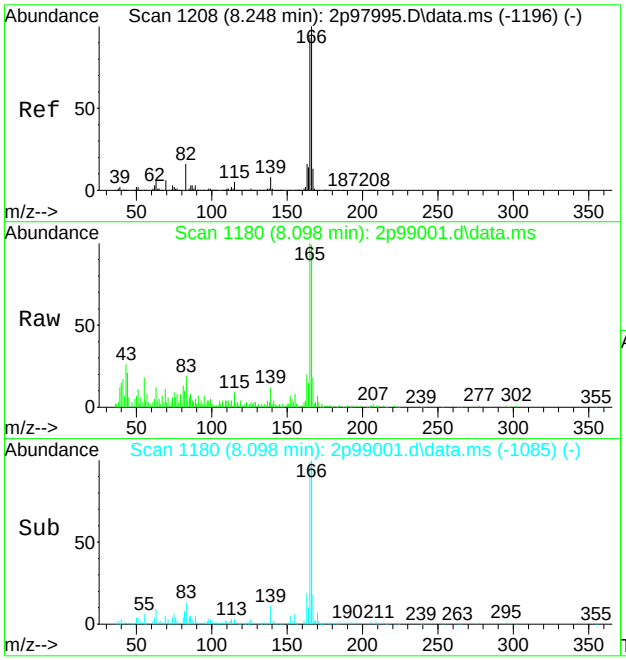


#62
Dibenzofuran
Concen: 0.26 ppm
RT: 7.628 min Scan# 1092
Delta R.T. 0.006 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:168 Resp: 10595

Ion	Ratio	Lower	Upper
168	100		
139	34.9	10.6	70.6
169	8.0	0.0	42.9

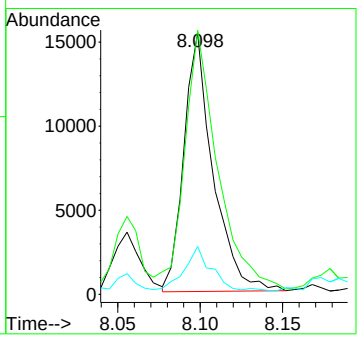


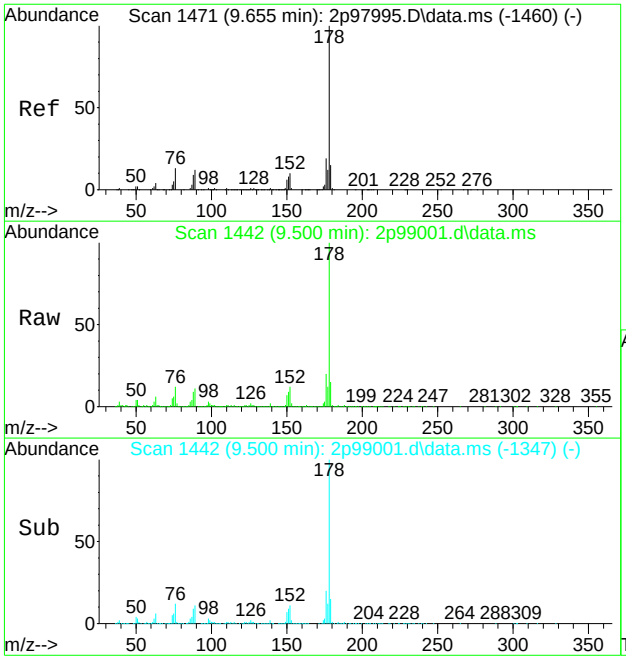


#66
Fluorene
Concen: 0.58 ppm
RT: 8.098 min Scan# 1180
Delta R.T. 0.006 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:166 Resp: 18894

Ion	Ratio	Lower	Upper
166	100		
165	97.9	65.3	125.3
167	16.3	0.0	43.3

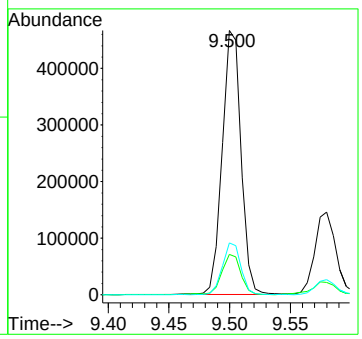


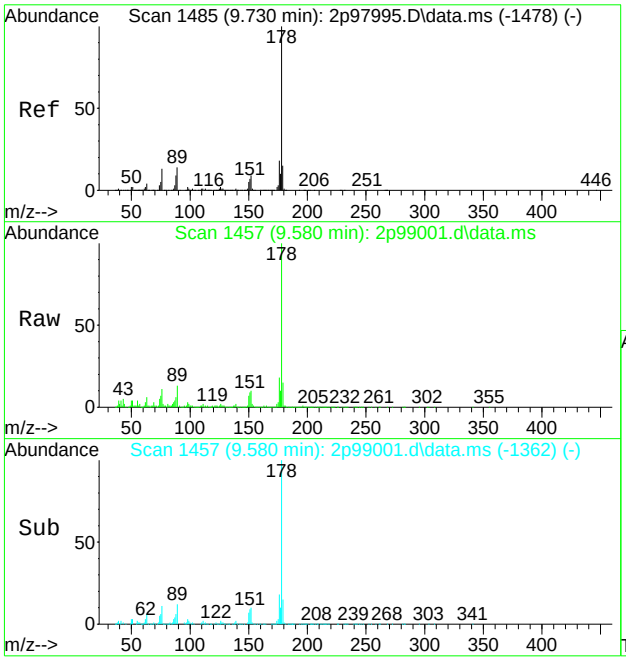


#77
Phenanthrene
Concen: 11.92 ppm
RT: 9.500 min Scan# 1442
Delta R.T. 0.006 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:178 Resp: 503302

Ion	Ratio	Lower	Upper
178	100		
179	15.0	0.0	44.9
176	19.6	0.0	49.2

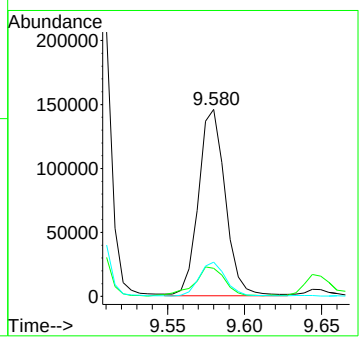


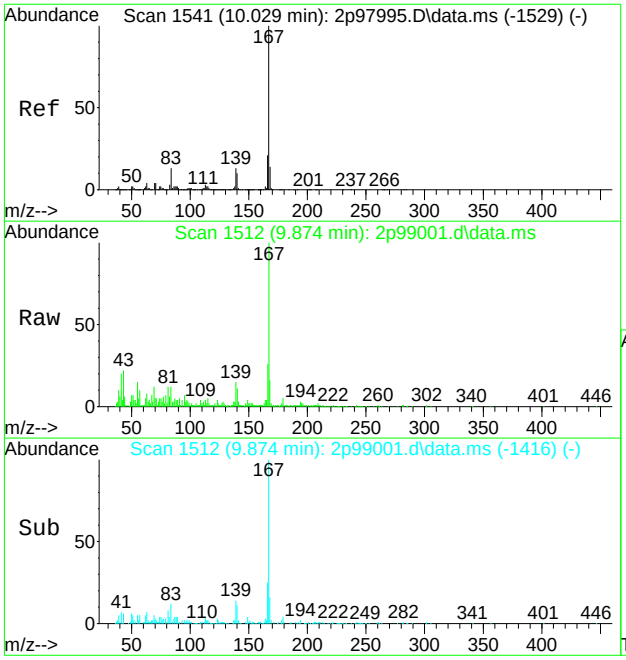


#78
Anthracene
Concen: 4.19 ppm
RT: 9.580 min Scan# 1457
Delta R.T. 0.006 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:178 Resp: 177140

Ion	Ratio	Lower	Upper
178	100		
179	14.4	0.0	44.8
176	18.2	0.0	49.1

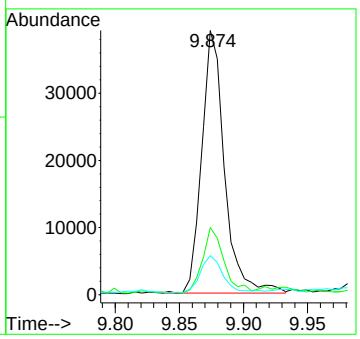


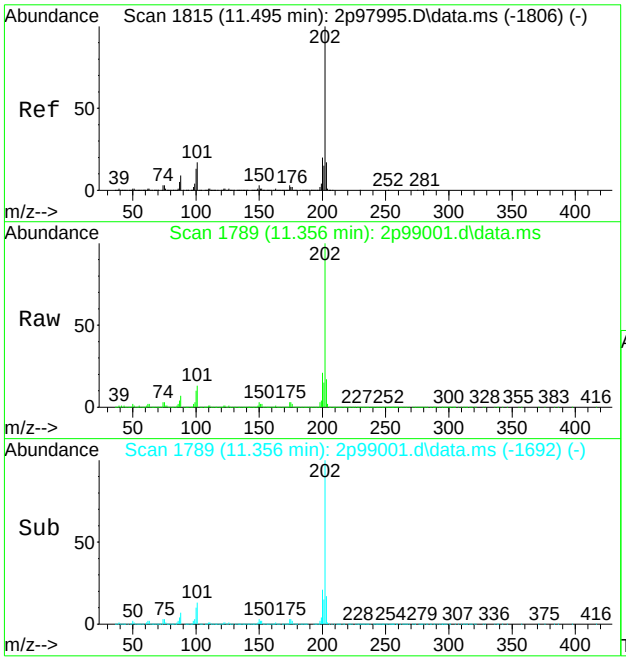


#79
Carbazole
Concen: 1.21 ppm
RT: 9.874 min Scan# 1512
Delta R.T. 0.011 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:167 Resp: 48204

Ion	Ratio	Lower	Upper
167	100		
166	23.7	0.0	51.3
139	13.5	0.0	44.4

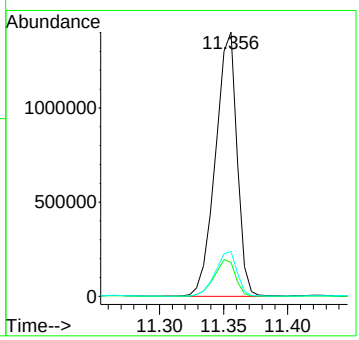


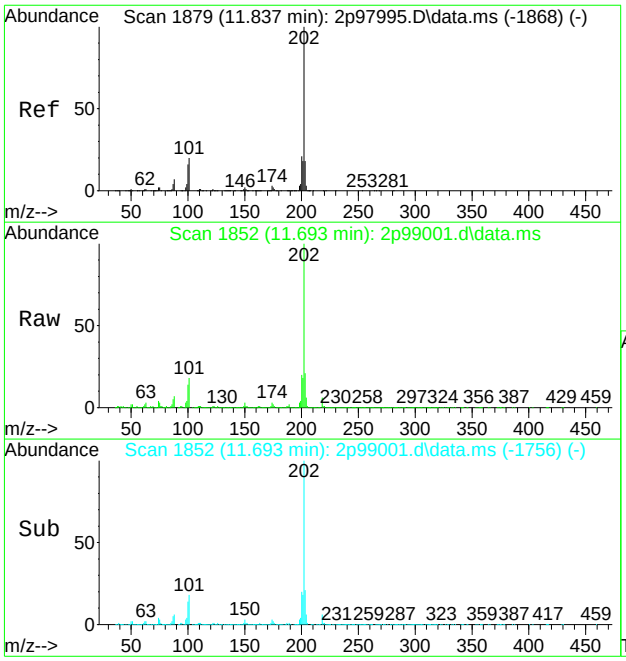


#81
Fluoranthene
Concen: 35.39 ppm
RT: 11.356 min Scan# 1789
Delta R.T. 0.016 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:202 Resp: 1640041

Ion	Ratio	Lower	Upper
202	100		
101	12.8	0.0	43.7
203	16.9	0.0	46.5

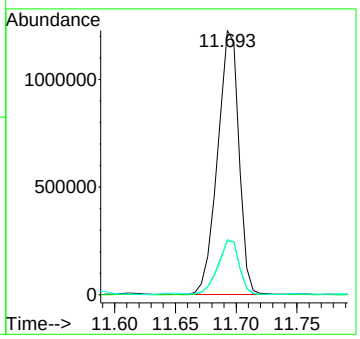


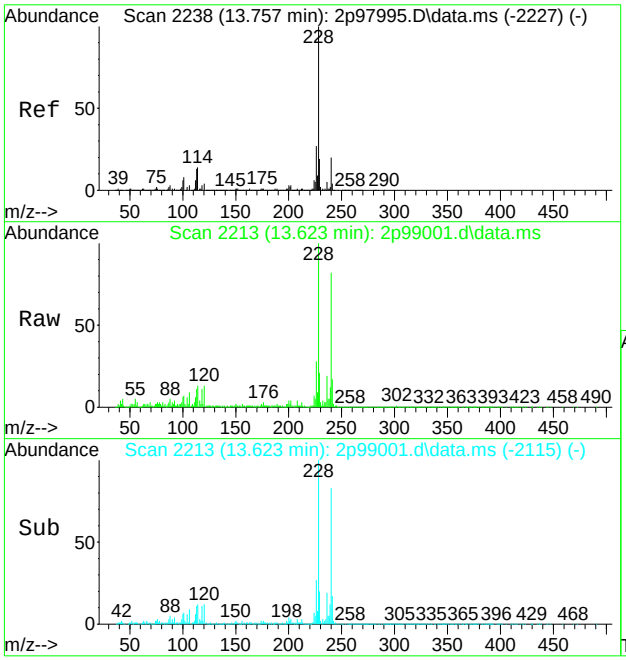


#84
Pyrene
Concen: 35.19 ppm
RT: 11.693 min Scan# 1852
Delta R.T. 0.011 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:202 Resp: 1492849

Ion	Ratio	Lower	Upper
202	100		
200	20.4	0.0	50.9
203	20.6	0.0	47.9

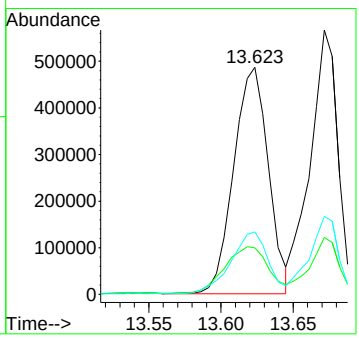


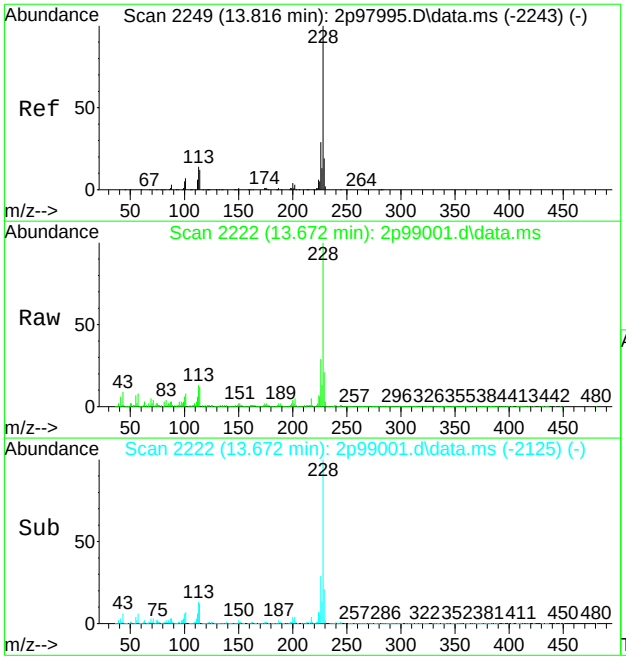


#87
Benzo[a]anthracene
Concen: 19.53 ppm
RT: 13.623 min Scan# 2213
Delta R.T. 0.022 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:228 Resp: 811968

Ion	Ratio	Lower	Upper
228	100		
229	19.3	0.0	50.0
226	27.2	0.0	56.8

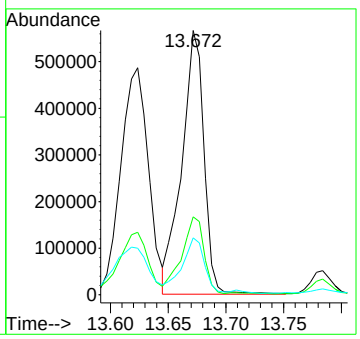


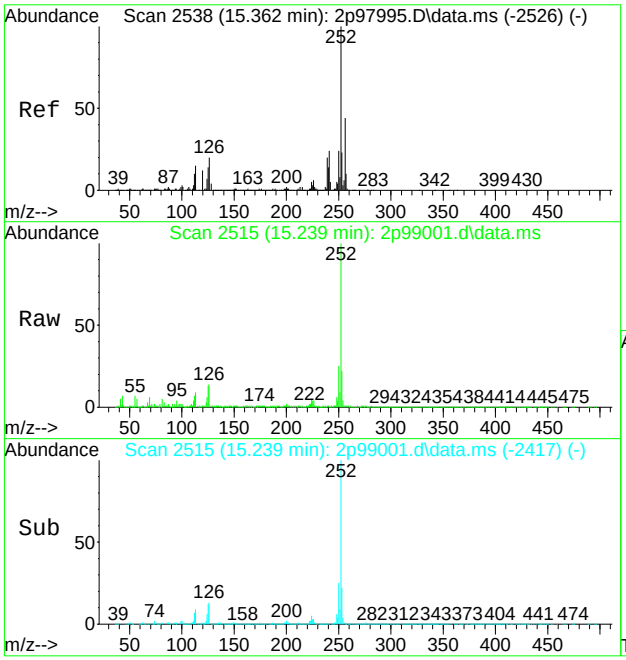


#89
Chrysene
Concen: 19.05 ppm
RT: 13.672 min Scan# 2222
Delta R.T. 0.016 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:228 Resp: 758470

Ion	Ratio	Lower	Upper
228	100		
226	29.2	0.3	60.3
229	20.3	0.0	49.6

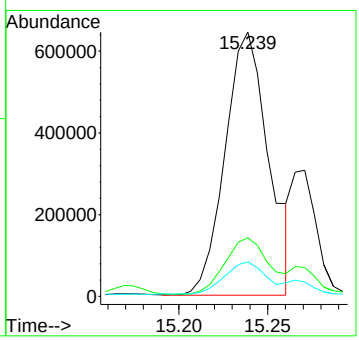


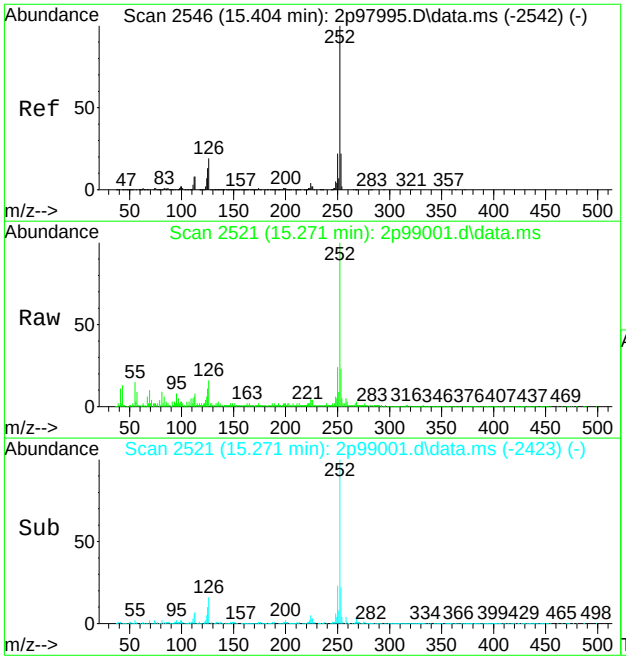


#93
Benzo[b]fluoranthene
Concen: 23.27 ppm
RT: 15.239 min Scan# 2515
Delta R.T. 0.022 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:252 Resp: 1097761

Ion	Ratio	Lower	Upper
252	100		
253	21.1	0.0	51.4
125	12.2	0.0	39.2

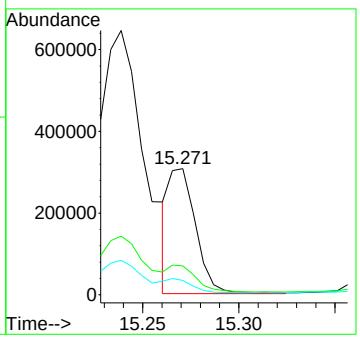


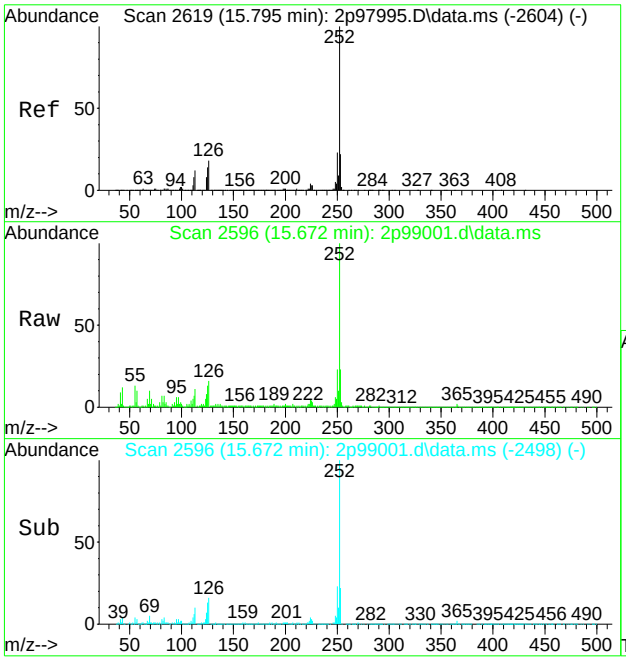


#94
Benzo[k]fluoranthene
Concen: 6.87 ppm
RT: 15.271 min Scan# 2521
Delta R.T. 0.022 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:252 Resp: 299074

Ion	Ratio	Lower	Upper
252	100		
253	20.5	0.0	51.6
125	8.0	0.0	40.9

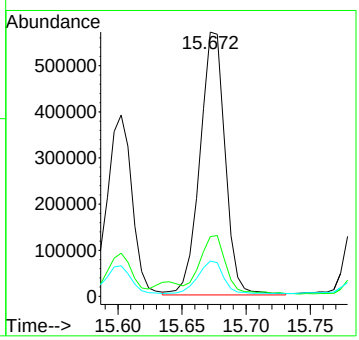


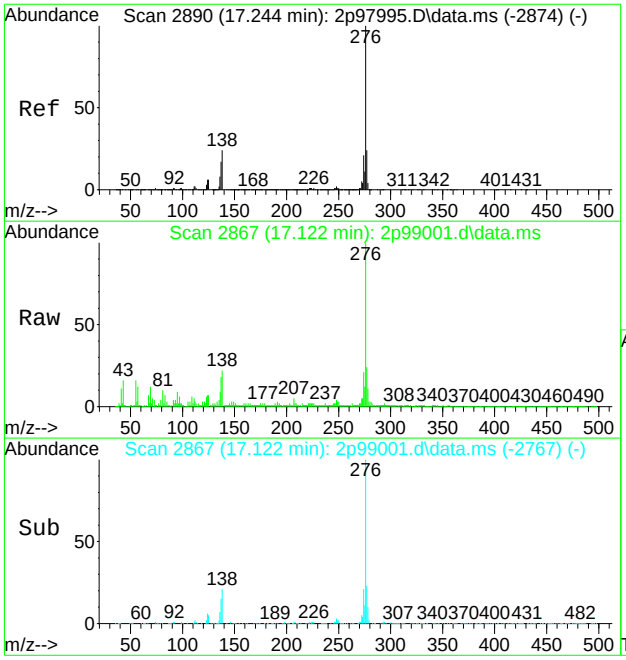


#95
Benzo[a]pyrene
Concen: 19.07 ppm
RT: 15.672 min Scan# 2596
Delta R.T. 0.022 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:252 Resp: 781225

Ion	Ratio	Lower	Upper
252	100		
253	19.6	0.0	51.7
125	12.4	0.0	41.0

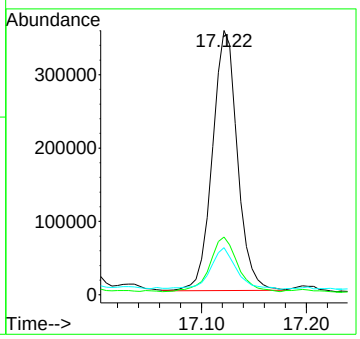


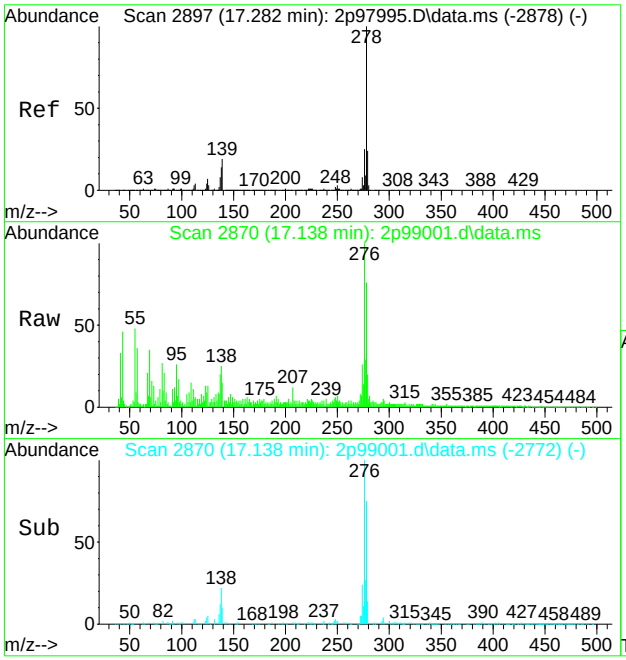


#96
Indeno[1,2,3-cd]pyrene
Concen: 13.35 ppm
RT: 17.122 min Scan# 2867
Delta R.T. 0.032 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:276 Resp: 586570

Ion	Ratio	Lower	Upper
276	100		
138	20.8	0.0	49.6
137	15.7	0.0	44.3

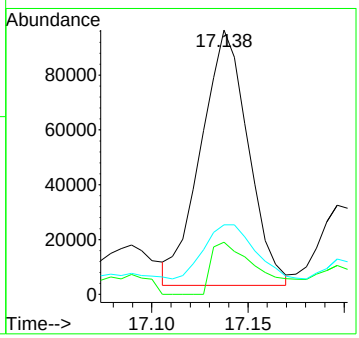


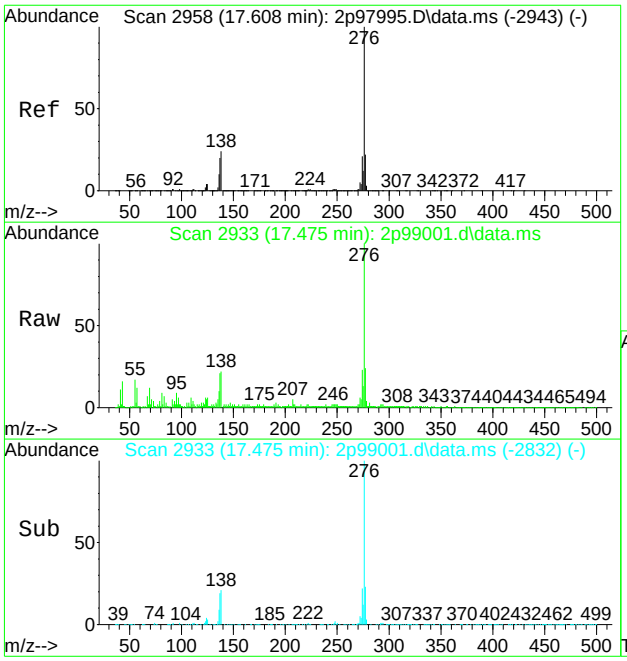


#98
Dibenz[a,h]anthracene
Concen: 3.48 ppm
RT: 17.138 min Scan# 2870
Delta R.T. 0.022 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:278 Resp: 158747

Ion	Ratio	Lower	Upper
278	100		
139	18.5	0.0	45.6
279	21.7	0.0	53.3

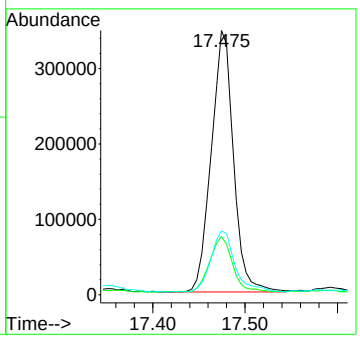




#100
Benzo[g,h,i]perylene
Concen: 13.37 ppm
RT: 17.475 min Scan# 2933
Delta R.T. 0.038 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:276 Resp: 578861

Ion	Ratio	Lower	Upper
276	100		
138	21.2	0.0	51.4
277	23.4	0.0	53.7



LSC Area Percent Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Title : Semi Volatile Extractables by GC/MS

Signal : TIC: 2p99001.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.439	119	122	129	rVB2	85542	113379	1.61%	0.117%
2	2.541	138	141	157	rVB	101741	178555	2.54%	0.184%
3	3.162	251	257	264	rVV	169524	177564	2.52%	0.183%
4	3.215	264	267	285	rVB	1872306	1667609	23.70%	1.721%
5	3.338	285	290	299	rVB3	70083	92624	1.32%	0.096%
6	3.520	320	324	341	rVV	2156922	1942696	27.61%	2.005%
7	3.905	392	396	409	rVB2	69214	139728	1.99%	0.144%
8	3.996	409	413	420	rBV	435213	431180	6.13%	0.445%
9	4.231	453	457	462	rBV	2009134	1820453	25.87%	1.879%
10	4.269	462	464	471	rVV	310583	349035	4.96%	0.360%
11	4.435	491	495	508	rVV	6526772	4108914	58.39%	4.241%
12	4.841	566	571	582	rVV	2477634	1942386	27.60%	2.005%
13	5.419	675	679	687	rBV	6243621	4583049	65.13%	4.730%
14	6.216	824	828	841	rBV4	69852	131724	1.87%	0.136%
15	6.526	879	886	893	rBV	3368439	3003533	42.68%	3.100%
16	7.162	999	1005	1010	rBV	186172	210112	2.99%	0.217%
17	7.350	1030	1040	1045	rBV	5037320	4895821	69.57%	5.053%
18	8.098	1176	1180	1188	rVB2	67236	103729	1.47%	0.107%
19	8.457	1242	1247	1255	rBV	1411770	1684284	23.93%	1.738%
20	8.767	1299	1305	1316	rVB6	56914	130457	1.85%	0.135%
21	8.885	1316	1327	1334	rBV8	40714	114203	1.62%	0.118%
22	9.115	1358	1370	1375	rBV8	116247	292596	4.16%	0.302%
23	9.195	1380	1385	1394	rVB3	65210	131948	1.88%	0.136%
24	9.468	1430	1436	1440	rBV2	3924574	4878141	69.32%	5.035%
25	9.500	1440	1442	1448	rVB	1335026	1295690	18.41%	1.337%
26	9.580	1448	1457	1462	rBV	411816	528645	7.51%	0.546%
27	9.644	1467	1469	1476	rVV3	47547	92641	1.32%	0.096%
28	9.708	1476	1481	1485	rVV3	128977	168890	2.40%	0.174%
29	9.874	1506	1512	1517	rBV	141822	181564	2.58%	0.187%
30	9.986	1530	1533	1544	rVB6	57040	126160	1.79%	0.130%
31	10.115	1552	1557	1564	rVB7	42433	92937	1.32%	0.096%
32	10.254	1579	1583	1587	rBV	255304	300777	4.27%	0.310%
33	10.297	1587	1591	1597	rVV	315083	369162	5.25%	0.381%
34	10.372	1601	1605	1608	rBV	131825	147100	2.09%	0.152%
35	10.409	1608	1612	1616	rVV2	286714	424022	6.03%	0.438%
36	10.457	1618	1621	1630	rVB	196883	241620	3.43%	0.249%
37	10.735	1667	1673	1677	rVV	191270	270615	3.85%	0.279%
38	10.773	1677	1680	1691	rVB3	185789	265538	3.77%	0.274%
39	10.976	1712	1718	1723	rBV5	42253	104753	1.49%	0.108%
40	11.131	1741	1747	1751	rBV	189276	296060	4.21%	0.306%

LSC Area Percent Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Title : Semi Volatile Extractables by GC/MS

41	11.174	1751	1755	1761	rBV4	74102	141217	2.01%	0.146%
42	11.243	1761	1768	1779	rVB3	213617	517763	7.36%	0.534%
43	11.356	1779	1789	1795	rBV	3499626	4325977	61.47%	4.465%
44	11.425	1796	1802	1805	rVB2	60955	93780	1.33%	0.097%
45	11.484	1805	1813	1824	rBV5	158041	430044	6.11%	0.444%
46	11.564	1824	1828	1834	rBV2	126805	211746	3.01%	0.219%
47	11.693	1842	1852	1859	rVB	3517049	4424814	62.88%	4.567%
48	11.805	1868	1873	1878	rVB2	144282	202671	2.88%	0.209%
49	11.923	1889	1895	1899	rBV2	456947	668527	9.50%	0.690%
50	12.019	1907	1913	1921	rBV	2578612	3214517	45.68%	3.318%
51	12.083	1921	1925	1931	rVB3	179252	309197	4.39%	0.319%
52	12.137	1931	1935	1942	rBV4	87953	135090	1.92%	0.139%
53	12.249	1944	1956	1963	rBV3	264495	687567	9.77%	0.710%
54	12.356	1971	1976	1980	rBV2	166236	204723	2.91%	0.211%
55	12.404	1980	1985	1988	rBV	246575	351497	4.99%	0.363%
56	12.543	2006	2011	2015	rBV3	209631	279613	3.97%	0.289%
57	12.586	2015	2019	2023	rVB2	208287	269660	3.83%	0.278%
58	12.736	2044	2047	2052	rVB5	68317	113944	1.62%	0.118%
59	12.934	2081	2084	2092	rVB4	127360	247451	3.52%	0.255%
60	13.067	2105	2109	2114	rVB	386191	479447	6.81%	0.495%
61	13.222	2132	2138	2141	rBV	257300	397619	5.65%	0.410%
62	13.265	2143	2146	2149	rVV	218953	333465	4.74%	0.344%
63	13.292	2149	2151	2157	rVV3	245713	332003	4.72%	0.343%
64	13.340	2157	2160	2166	rVB3	182246	263702	3.75%	0.272%
65	13.410	2168	2173	2178	rVB	322176	429175	6.10%	0.443%
66	13.495	2185	2189	2194	rVB	147441	210477	2.99%	0.217%
67	13.640	2205	2216	2219	rBV2	3847429	7037192	100.00%	7.263%
68	13.672	2219	2222	2230	rVB2	1876884	2447379	34.78%	2.526%
69	13.736	2231	2234	2238	rVB3	81210	98038	1.39%	0.101%
70	13.784	2239	2243	2248	rVB	252890	313506	4.45%	0.324%
71	13.843	2249	2254	2256	rBV3	151107	230286	3.27%	0.238%
72	13.960	2273	2276	2284	rVB3	149458	291517	4.14%	0.301%
73	14.041	2286	2291	2296	rVV3	171300	265769	3.78%	0.274%
74	14.271	2328	2334	2339	rBV	306158	473259	6.73%	0.488%
75	14.324	2340	2344	2347	rVB	151356	183989	2.61%	0.190%
76	14.362	2348	2351	2354	rBV4	89394	111626	1.59%	0.115%
77	14.527	2379	2382	2386	rVB5	104315	128111	1.82%	0.132%
78	14.608	2394	2397	2404	rVB5	101949	156447	2.22%	0.161%
79	14.677	2406	2410	2412	rBV3	204050	268361	3.81%	0.277%
80	14.790	2428	2431	2435	rBV3	96033	116235	1.65%	0.120%
81	15.014	2469	2473	2479	rBV2	143249	308551	4.38%	0.318%
82	15.239	2508	2515	2519	rBV	1844330	3414083	48.51%	3.524%
83	15.346	2530	2535	2537	rBV3	277431	395874	5.63%	0.409%
84	15.373	2538	2540	2545	rVB	305294	316383	4.50%	0.327%
85	15.608	2577	2584	2590	rBV2	1400521	2548030	36.21%	2.630%

LSC Area Percent Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Title : Semi Volatile Extractables by GC/MS

86	15.672	2590	2596	2604	rVB	1738496	2547695	36.20%	2.630%
87	15.758	2605	2612	2616	rBV2	3122882	4363045	62.00%	4.503%
88	16.116	2677	2679	2683	rBV4	133387	161432	2.29%	0.167%
89	16.260	2701	2706	2711	rBV2	421849	680548	9.67%	0.702%
90	16.464	2739	2744	2746	rBV3	423327	620594	8.82%	0.641%
91	16.496	2746	2750	2756	rVB	846617	1201804	17.08%	1.240%
92	16.565	2759	2763	2771	rVV6	163567	343594	4.88%	0.355%
93	16.833	2809	2813	2818	rVB4	355488	494549	7.03%	0.510%
94	16.982	2837	2841	2846	rVB3	252717	428458	6.09%	0.442%
95	17.122	2862	2867	2879	rVB2	973018	2245490	31.91%	2.318%
96	17.475	2927	2933	2942	rBV	898761	1471937	20.92%	1.519%
97	17.672	2965	2970	2989	rVB7	711984	2286188	32.49%	2.360%
98	18.020	3031	3035	3045	rVB8	365594	817745	11.62%	0.844%
99	18.448	3109	3115	3122	rVB4	405911	823638	11.70%	0.850%
100	19.154	3240	3247	3260	rVB2	771163	1988113	28.25%	2.052%

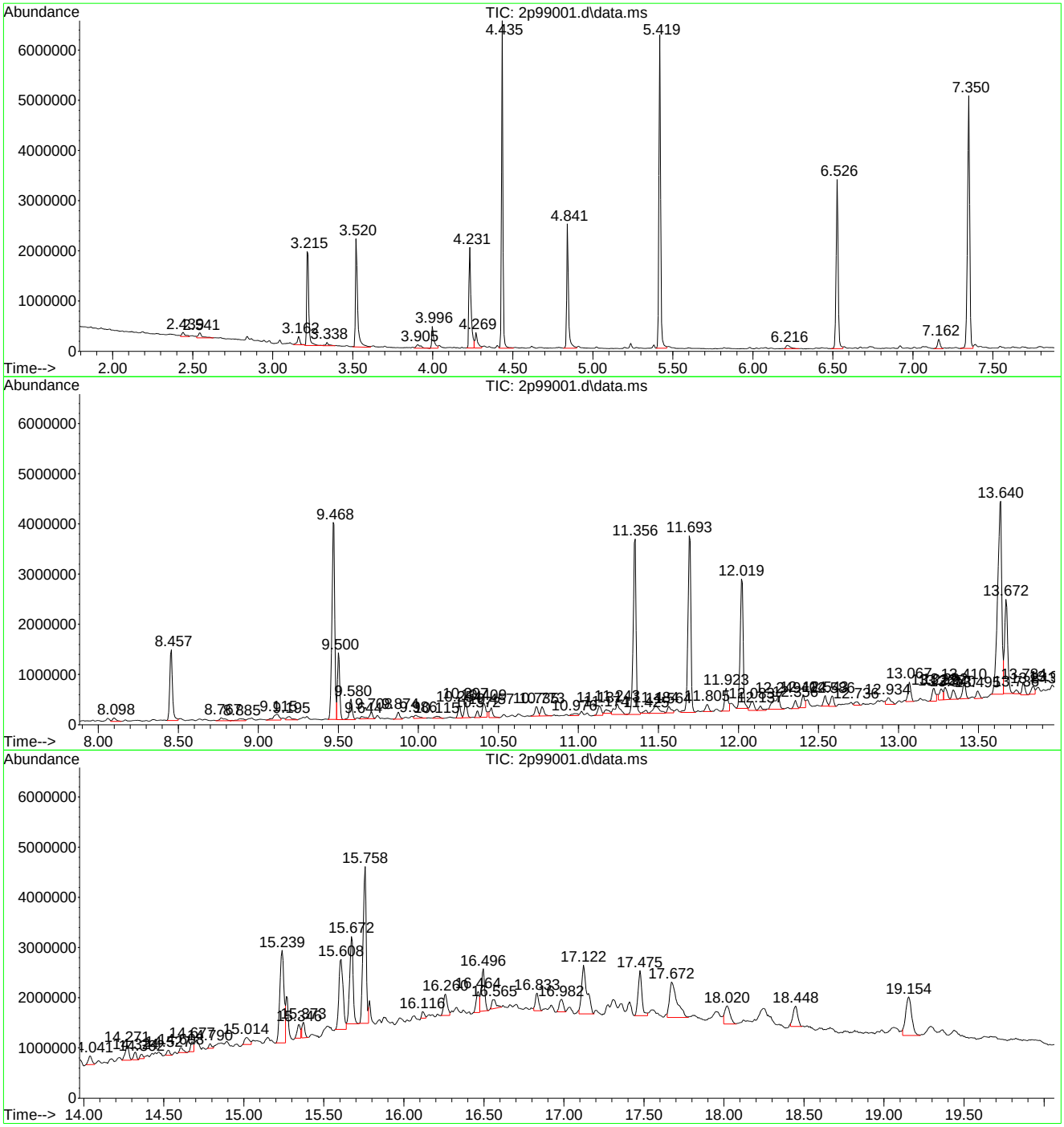
Sum of corrected areas: 96885046

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

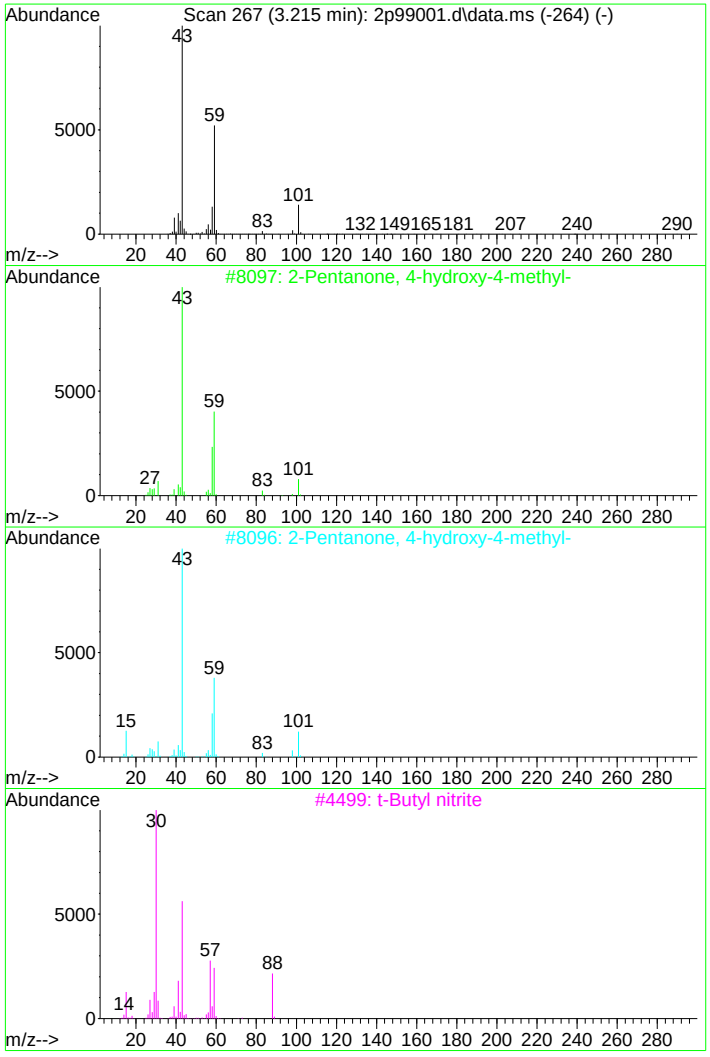
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

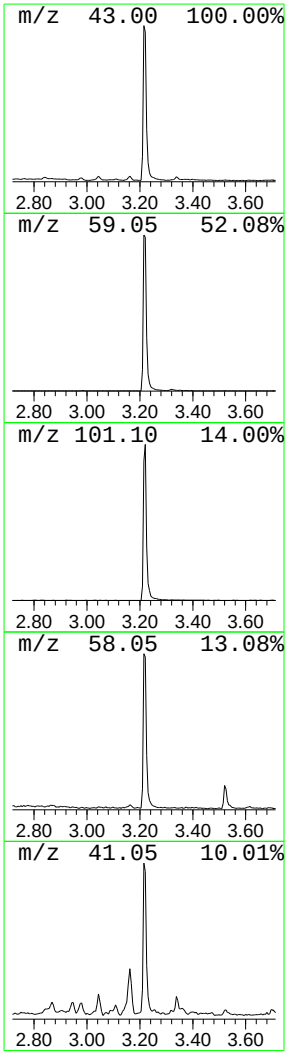
****

Peak Number 1 System artifact/aldol-conde... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.215	16.23 ppm	1667610	1,4-Dichlorobenzene-d4a	4.435

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
3	t-Butyl nitrite	103	C4H9NO2	000540-80-7	39
4	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	28
5	Butyl aldoxime, 3-methyl-, syn-	101	C5H11NO	005780-40-5	23





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

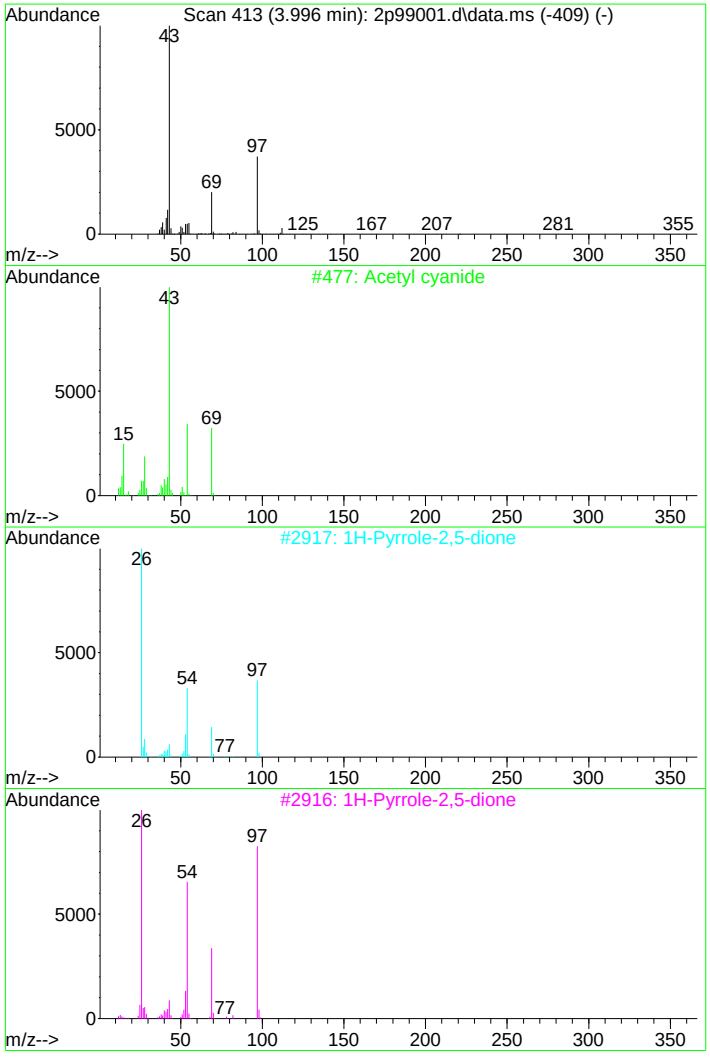
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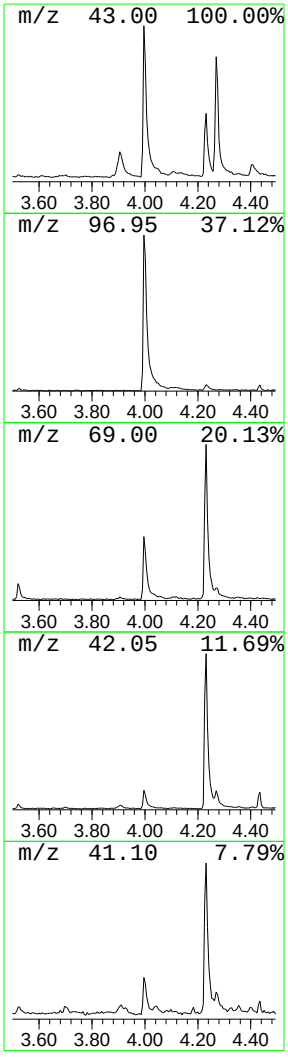
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Peak Number 2 Unknown Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.996	4.20 ppm	431180	1,4-Dichlorobenzene-d4a	4.435

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acetyl cyanide	69	C3H3NO	000631-57-2	9
2	1H-Pyrrole-2,5-dione	97	C4H3NO2	000541-59-3	9
3	1H-Pyrrole-2,5-dione	97	C4H3NO2	000541-59-3	9
4	4-Penten-2-one, 4-methyl-	98	C6H10O	003744-02-3	7
5	2-Propyn-1-ol, acetate	98	C5H6O2	000627-09-8	5





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

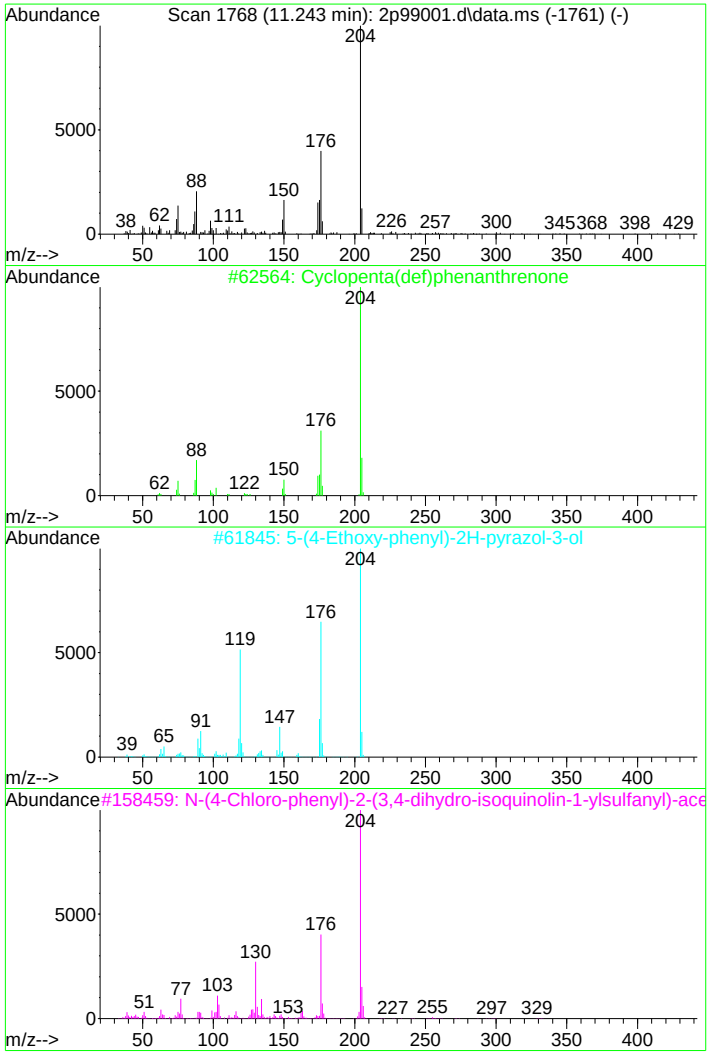
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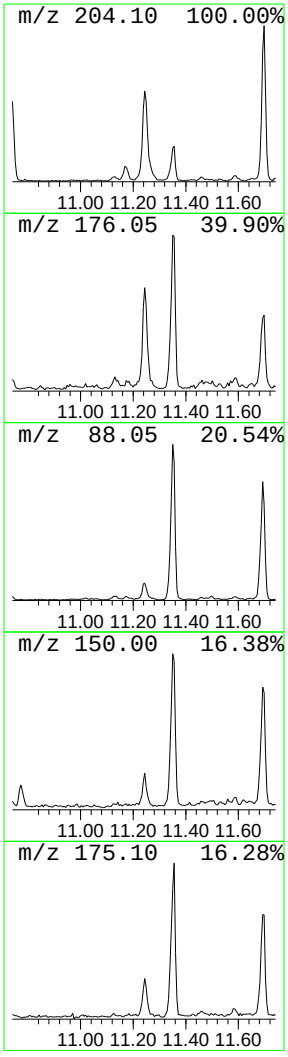
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Peak Number 3 Cyclopentaphenanthrenone Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.243	4.25 ppm	517763	Phenanthrene-d10b	9.468

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	91
2	5-(4-Ethoxy-phenyl)-2H-pyrazol-3-ol	204	C11H12N2O2	1000278-26-8	53
3	N-(4-Chloro-phenyl)-2-(3,4-dihyd...	330	C17H15ClN2OS	1000296-34-3	40
4	Propanedinitrile, 2,2'-(2,5-cycl...	204	C12H4N4	001518-16-7	38
5	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	38





Library Search Compound Report

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Data File : 2p99001.d
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Operator  : hennys
Sample    : jd18939-3
Misc      : op31540,e2p4412,31.6,,,1,1
ALS Vial  : 21   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title  : Semi Volatile Extractables by GC/MS

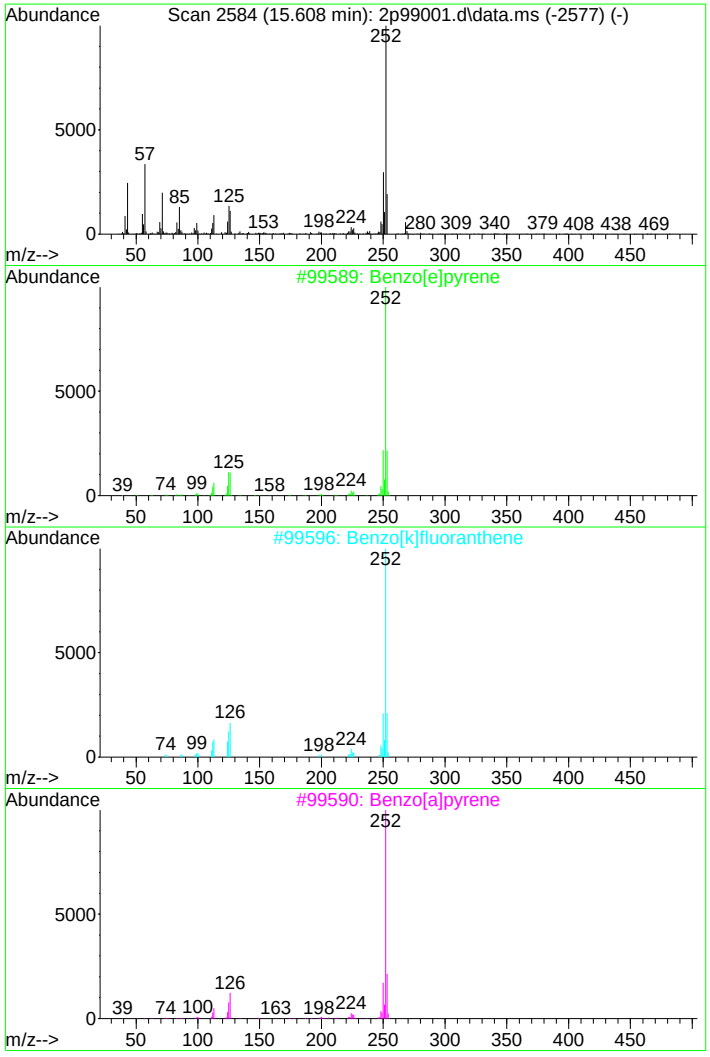
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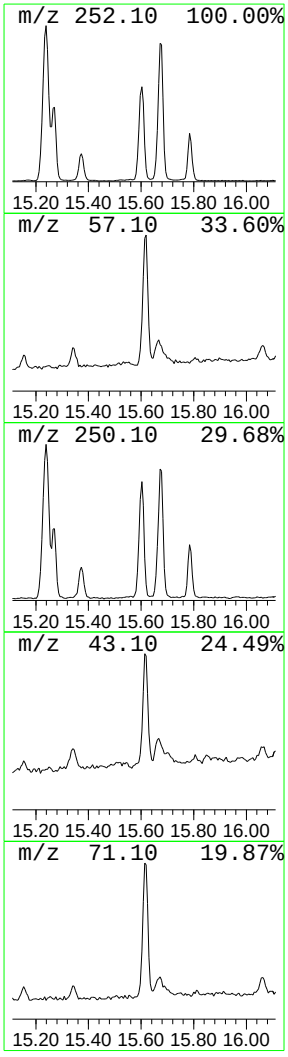
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Peak Number 4 Unknown PAH substance Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.608	23.36 ppm	2548030	Perylene-d12	15.758

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	97
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	95
3	Benzo[a]pyrene	252	C20H12	000050-32-8	95
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

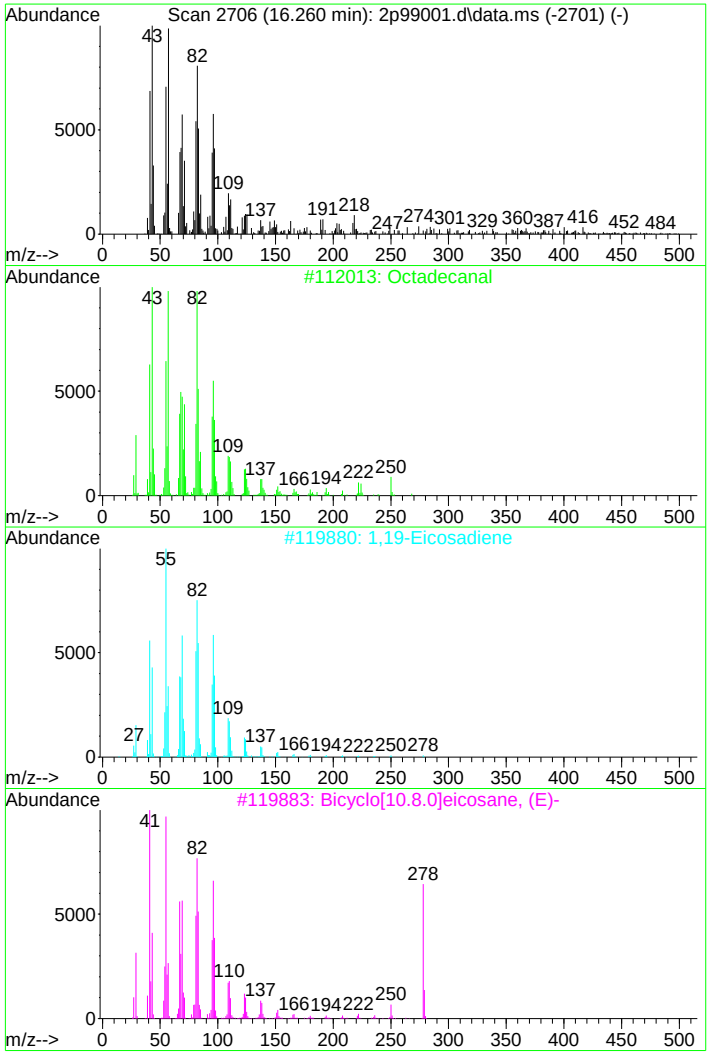
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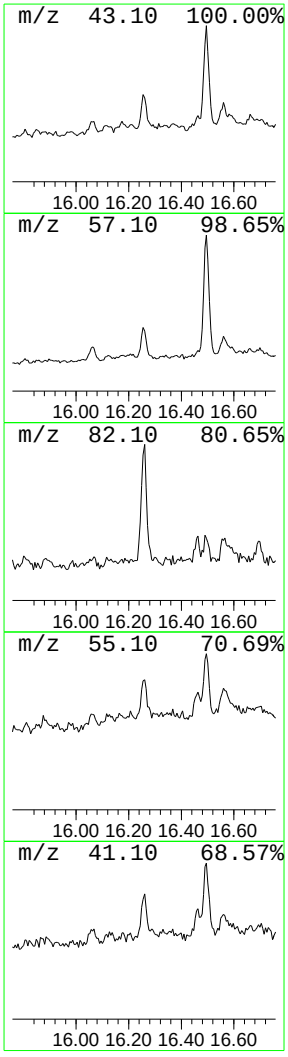
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Peak Number 5 Unknown Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.260	6.24 ppm	680548	Perylene-d12	15.758

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanal	268	C18H36O	000638-66-4	91
2	1,19-Eicosadiene	278	C20H38	014811-95-1	91
3	Bicyclo[10.8.0]eicosane, (E)-	278	C20H38	1000155-85-0	90
4	Carbonic acid, isobutyl undec-10...	270	C16H30O3	1000314-60-8	90
5	Octadecanal	268	C18H36O	000638-66-4	87





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

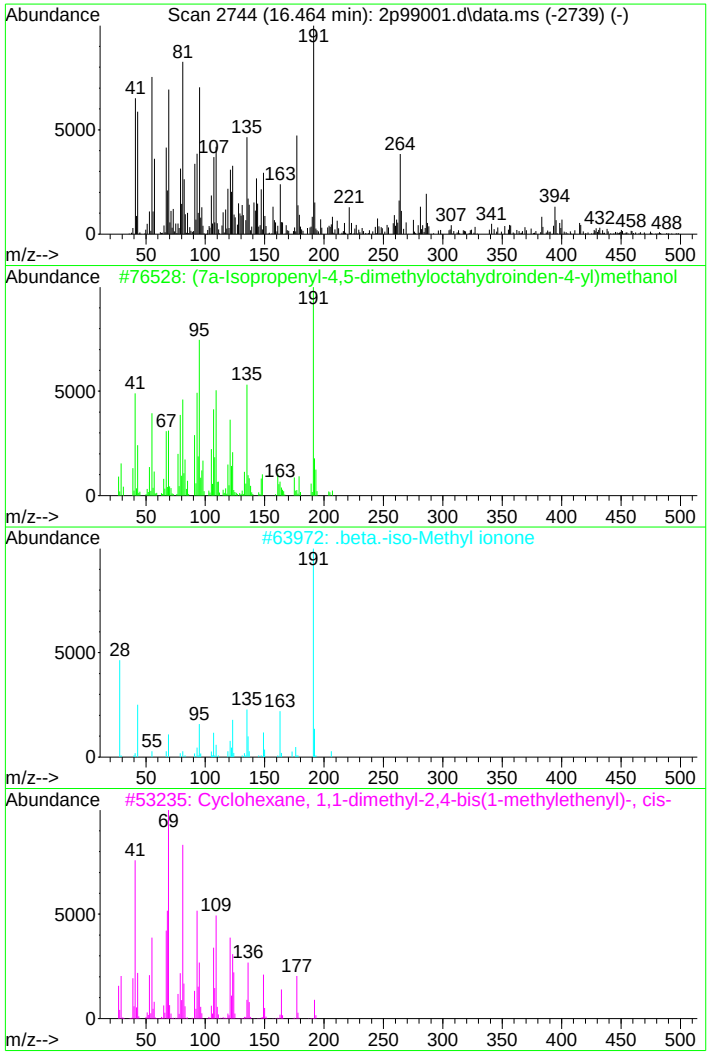
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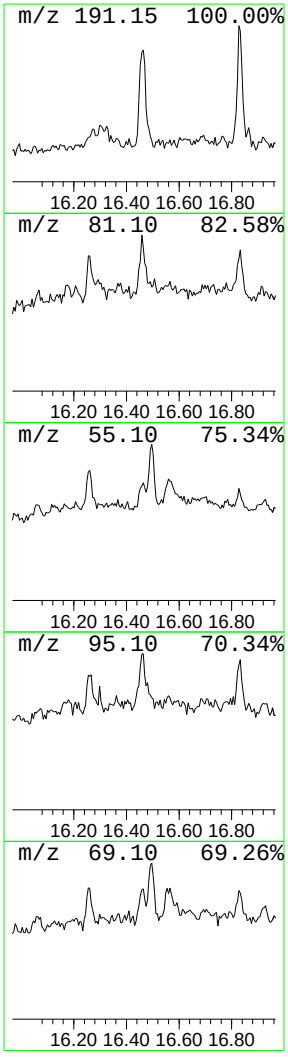
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Peak Number 6 Unknown Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.464	5.69 ppm	620594	Perylene-d12	15.758

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(7a-Isopropenyl-4,5-dimethylocta...	222	C15H26O	1000187-02-9	43
2	.beta.-iso-Methyl ionone	206	C14H22O	1000285-40-2	42
3	Cyclohexane, 1,1-dimethyl-2,4-bi...	192	C14H24	062337-98-8	30
4	Cyclohexane, 3,4-bis(1-methyleth...	192	C14H24	061142-74-3	30
5	Anthracene, 9-(4-methoxybutyl)-	264	C19H20O	144000-76-0	20





Library Search Compound Report

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Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On    : 15 Jan 2021  10:09 pm
Operator  : hennys
Sample    : jd18939-3
Misc      : op31540,e2p4412,31.6,,,1,1
ALS Vial  : 21   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title  : Semi Volatile Extractables by GC/MS

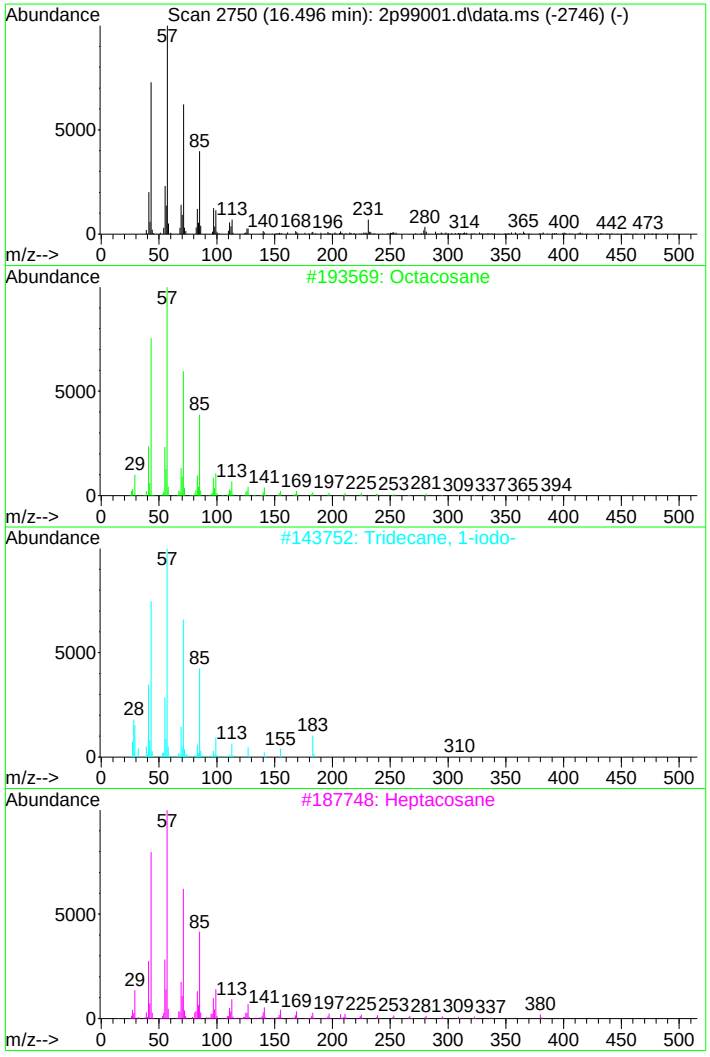
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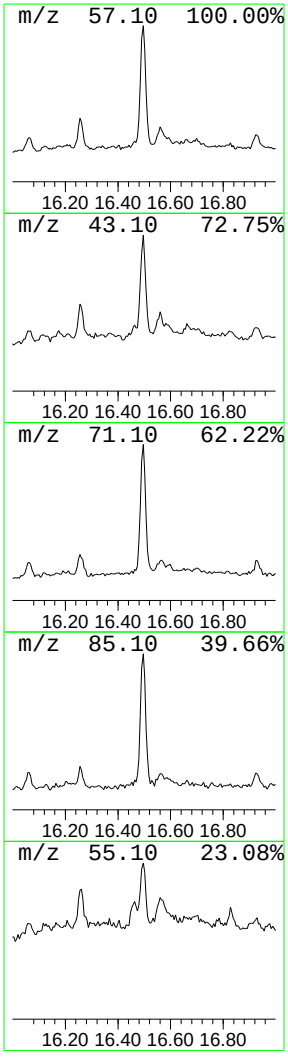
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Peak Number 7 Alkane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.496	11.02 ppm	1201800	Perylene-d12	15.758

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octacosane	394	C28H58	000630-02-4	93
2	Tridecane, 1-iodo-	310	C13H27I	035599-77-0	91
3	Heptacosane	380	C27H56	000593-49-7	90
4	Tetratetracontane	619	C44H90	007098-22-8	87
5	Hexacosane, 9-octyl-	479	C34H70	055429-83-9	87





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

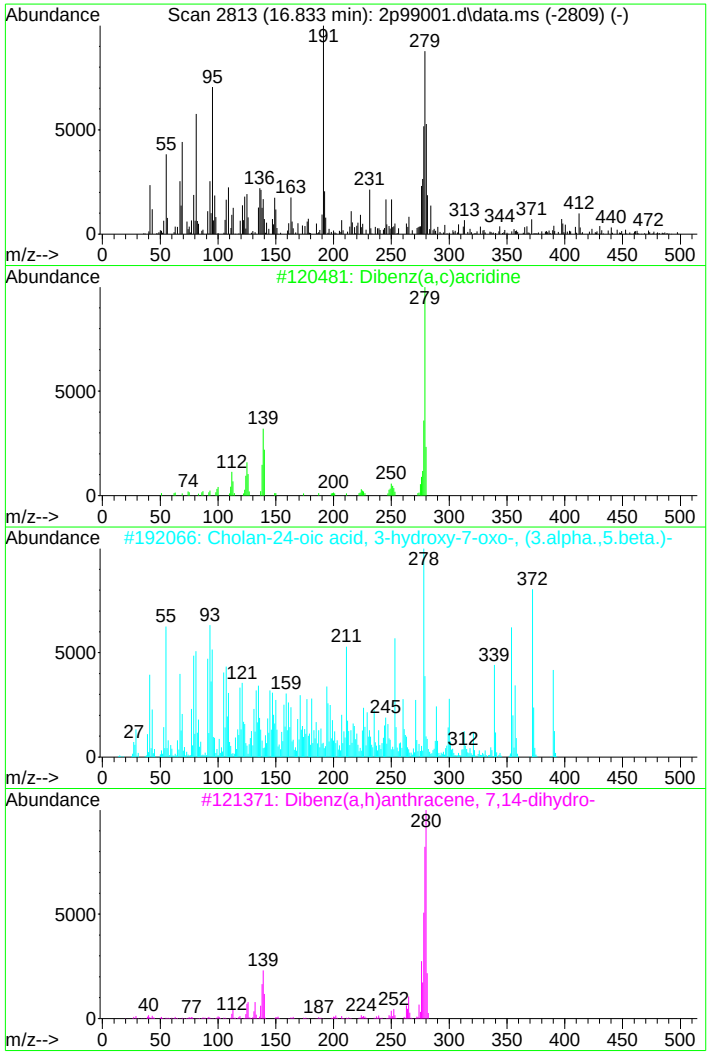
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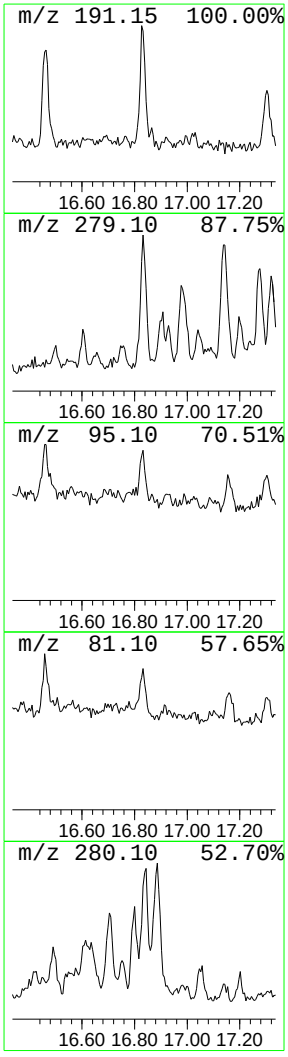
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Peak Number 8 Unknown Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.833	4.53 ppm	494549	Perylene-d12	15.758

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenz(a,c)acridine	279	C21H13N	000215-62-3	30
2	Cholan-24-oic acid, 3-hydroxy-7-...	390	C24H38O4	004651-67-6	25
3	Dibenz(a,h)anthracene, 7,14-dihy...	280	C22H16	057816-08-7	25
4	Cinnamic acid, 3,4-dimethoxy-, t...	280	C14H20O4Si	027750-71-6	22
5	Dibenz(a,h)acridine	279	C21H13N	000226-36-8	20





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

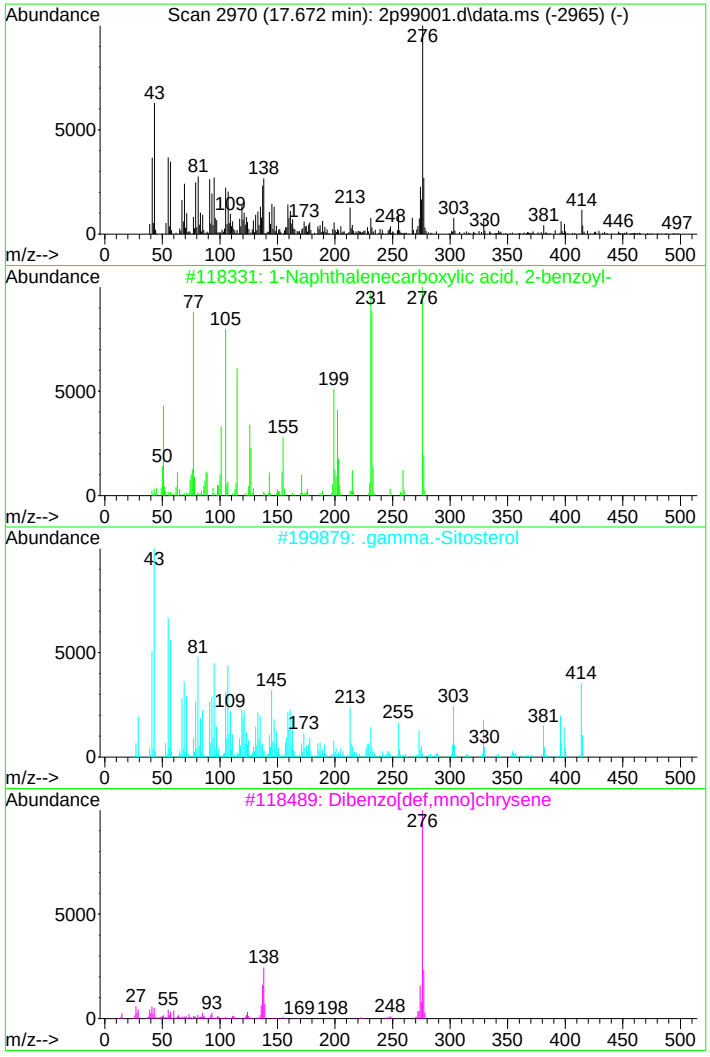
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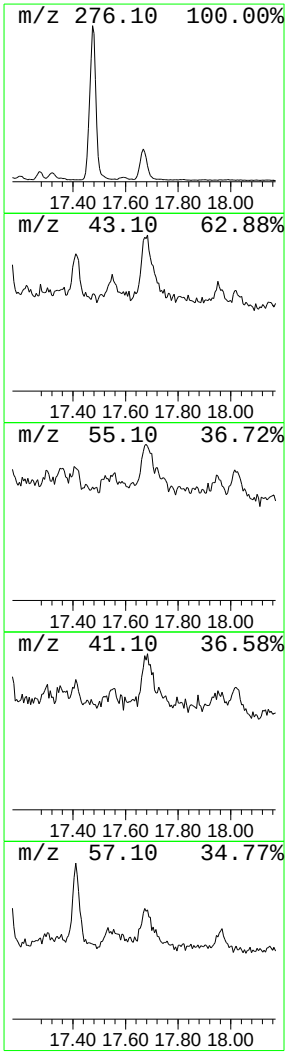
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Peak Number 9 Unknown Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.672	20.96 ppm	2286190	Perylene-d12	15.758

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Naphthalenecarboxylic acid, 2-...	276	C18H12O3	038119-11-8	94
2	.gamma.-Sitosterol	414	C29H50O	000083-47-6	91
3	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	91
4	Benzo[ghi]perylene	276	C22H12	000191-24-2	64
5	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	64





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

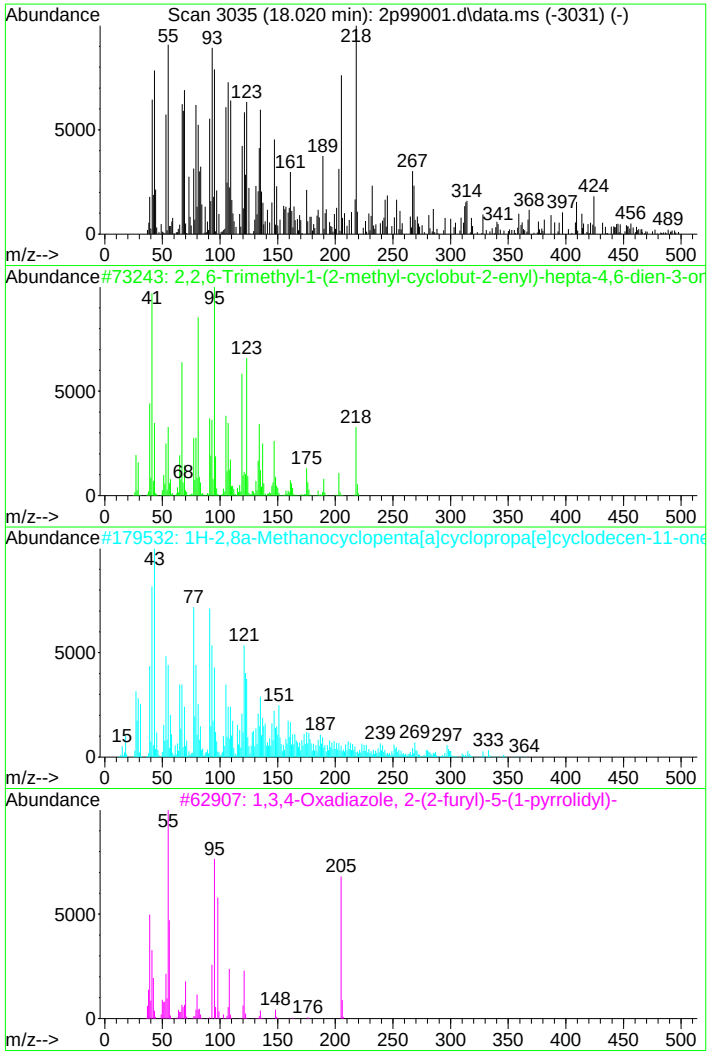
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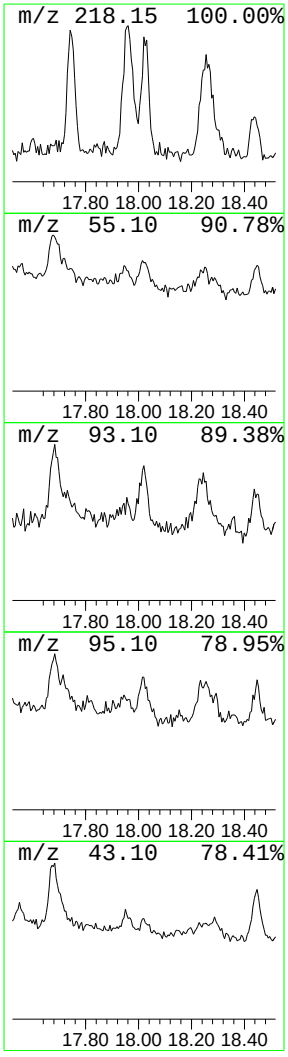
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Peak Number 10 Unknown Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.020	7.50 ppm	817745	Perylene-d12	15.758

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,2,6-Trimethyl-1-(2-methyl-cycl...	218	C15H22O	1000188-72-8	42
2	1H-2,8a-Methanocyclopenta[a]cycl...	364	C20H28O6	052557-29-6	37
3	1,3,4-Oxadiazole, 2-(2-furyl)-5-...	205	C10H11N3O2	284674-14-2	35
4	4,4,6a,6b,8a,11,11,14b-Octamethy...	424	C30H48O	1000194-62-4	22
5	Cyclopropanecarboxamide, 2,2-dib...	337	C11H17Br2NO	1000263-98-9	22





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

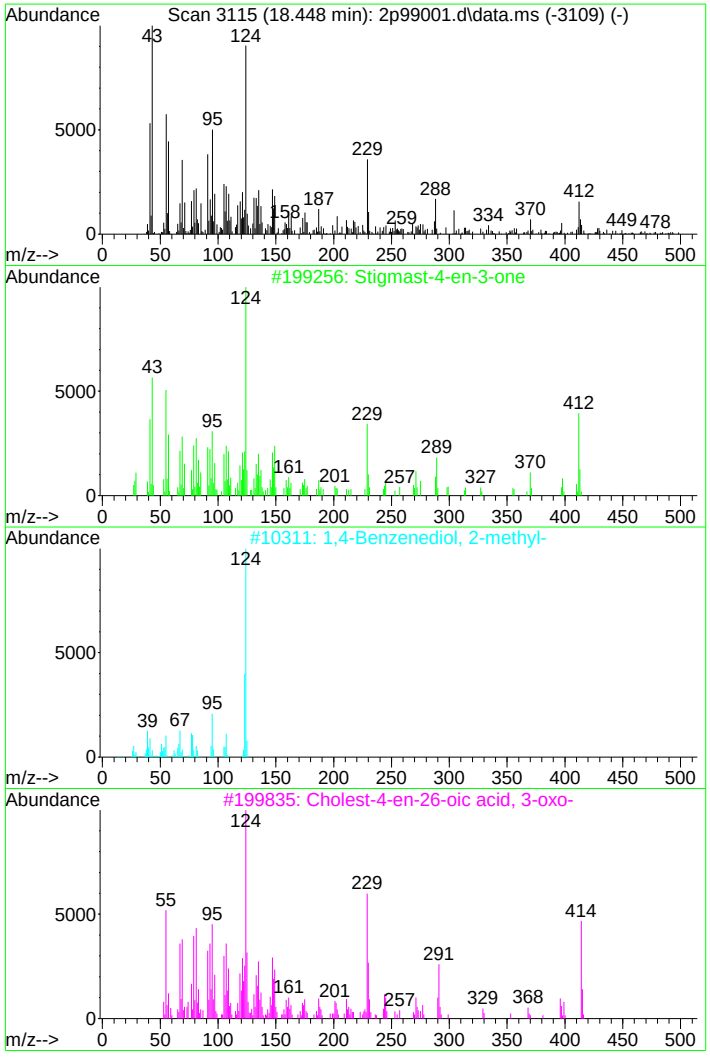
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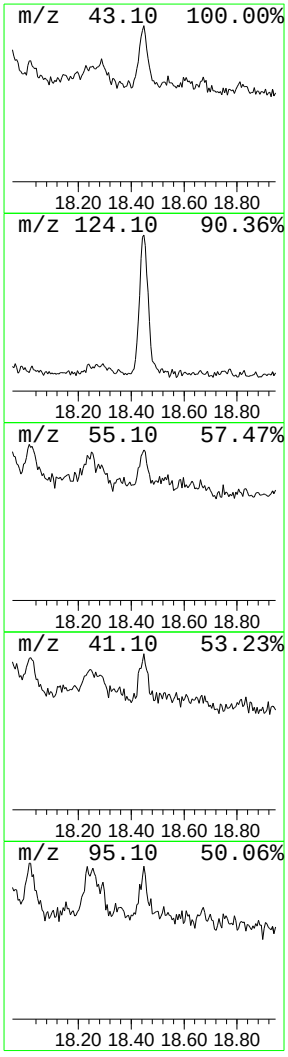
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Peak Number 11 Unknown Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.448	7.55 ppm	823638	Perylene-d12	15.758

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Stigmast-4-en-3-one	412	C29H48O	001058-61-3	72
2	1,4-Benzenediol, 2-methyl-	124	C7H8O2	000095-71-6	55
3	Cholest-4-en-26-oic acid, 3-oxo-	414	C27H42O3	023017-97-2	53
4	Testosterone	288	C19H28O2	000058-22-0	50
5	Testosterone	288	C19H28O2	000058-22-0	49





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

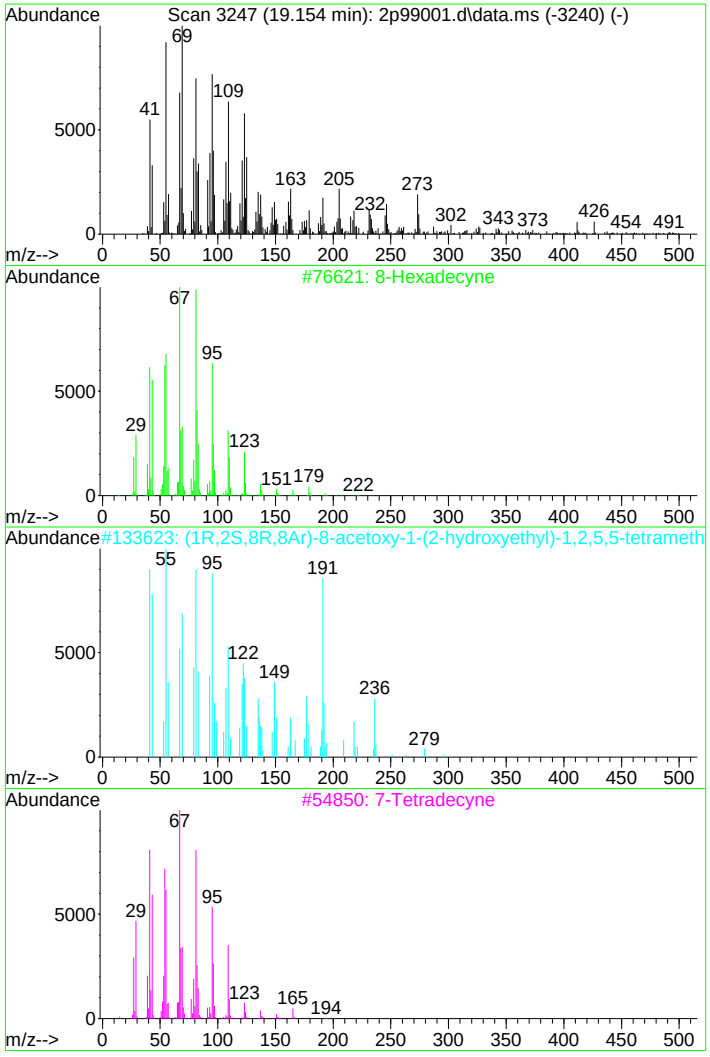
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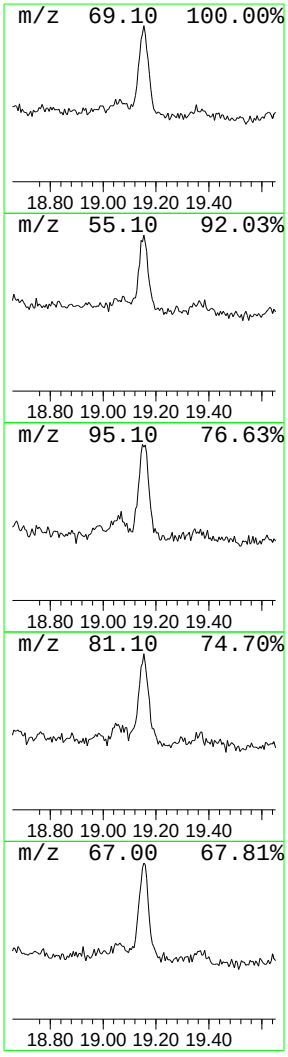
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Peak Number 12 Unknown Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.154	18.23 ppm	1988110	Perylene-d12	15.758

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	8-Hexadecyne	222	C16H30	019781-86-3	86
2	(1R,2S,8R,8Ar)-8-acetoxy-1-(2-hy...	296	C18H32O3	1000298-98-4	70
3	7-Tetradecyne	194	C14H26	035216-11-6	64
4	7-Tetradecyne	194	C14H26	035216-11-6	58
5	7-Tetradecyne	194	C14H26	035216-11-6	58





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
System artifact...	3.215	16.2	ppm	1667610	2	4.435	4108910	40.0
Unknown	3.996	4.2	ppm	431180	2	4.435	4108910	40.0
Cyclopentaphena...	11.243	4.3	ppm	517763	11	9.468	4878140	40.0
Unknown PAH sub...	15.608	23.4	ppm	2548030	15	15.758	4363050	40.0
Unknown	16.260	6.2	ppm	680548	15	15.758	4363050	40.0
Unknown	16.464	5.7	ppm	620594	15	15.758	4363050	40.0
Alkane	16.496	11.0	ppm	1201800	15	15.758	4363050	40.0
Unknown	16.833	4.5	ppm	494549	15	15.758	4363050	40.0
Unknown	17.672	21.0	ppm	2286190	15	15.758	4363050	40.0
Unknown	18.020	7.5	ppm	817745	15	15.758	4363050	40.0
Unknown	18.448	7.5	ppm	823638	15	15.758	4363050	40.0
Unknown	19.154	18.2	ppm	1988110	15	15.758	4363050	40.0

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98985.d
Acq On : 15 Jan 2021 2:46 pm
Operator : hennys
Sample : op31540-mb1 Inst : MS2P
Misc : op31540,e2p4412,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Results File: M2P4365.RES
Quant Time: Jan 18 03:21:22 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jan 18 03:08:11 2021
Response via : Initial Calibration

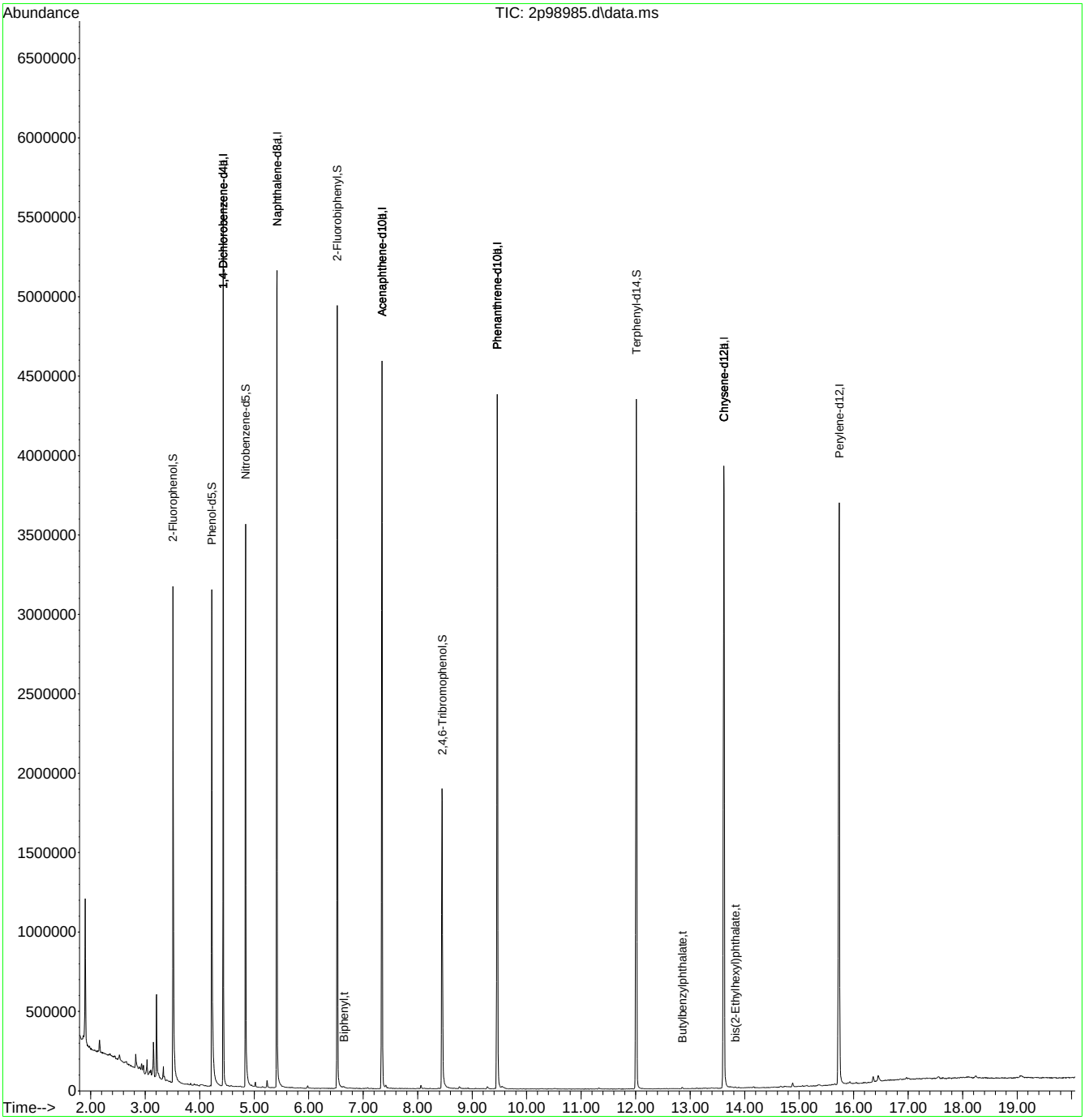
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.429	152	459581	40.00	ppm	0.00
24) Naphthalene-d8	5.418	136	1663653	40.00	ppm	0.00
47) Acenaphthene-d10	7.344	164	836454	40.00	ppm	0.00
69) Phenanthrene-d10	9.462	188	1586317	40.00	ppm	0.00
83) Chrysene-d12	13.618	240	1674443	40.00	ppm	0.00
91) Perylene-d12	15.736	264	1720024	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.429	152	459581	40.00	ppm	0.00
103) Naphthalene-d8a	5.418	136	1663653	40.00	ppm	0.00
105) Acenaphthene-d10a	7.344	164	836454	40.00	ppm	0.00
107) Chrysene-d12a	13.618	240	1674443	40.00	ppm	0.00
109) Phenanthrene-d10a	9.462	188	1586317	40.00	ppm	0.00
112) 1,4-Dichlorobenzene-d4b	4.429	152	459581	40.00	ppm	0.00
115) Acenaphthene-d10b	7.344	164	836454	40.00	ppm	0.00
117) Phenanthrene-d10b	9.462	188	1586317	40.00	ppm	0.00
120) Chrysene-d12b	13.618	240	1674443	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.509	112	552254	35.26	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 70.52%#			
8) Phenol-d5	4.220	99	699559	35.27	ppm	0.00
Spiked Amount 50.000	Range 10 - 59		Recovery = 70.54%#			
25) Nitrobenzene-d5	4.841	82	835923	44.76	ppm	0.00
Spiked Amount 50.000	Range 19 - 61		Recovery = 89.52%#			
51) 2-Fluorobiphenyl	6.526	172	1172124	42.60	ppm	0.00
Spiked Amount 50.000	Range 21 - 58		Recovery = 85.20%#			
73) 2,4,6-Tribromophenol	8.451	330	226553	39.49	ppm	0.00
Spiked Amount 50.000	Range 12 - 68		Recovery = 78.98%#			
85) Terphenyl-d14	12.013	244	1638211	42.02	ppm	0.00
Spiked Amount 50.000	Range 16 - 65		Recovery = 84.04%#			
118) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000	Range 15 - 64		Recovery = 0.00%#			
119) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000	Range 15 - 64		Recovery = 0.00%#			
Target Compounds						Qvalue
53) Biphenyl	6.643	154	2570	0.08	ppm	85
86) Butylbenzylphthalate	12.853	149	2601	0.11	ppm	77
90) bis(2-Ethylhexyl)phtha...	13.827	149	1902	0.06	ppm	90

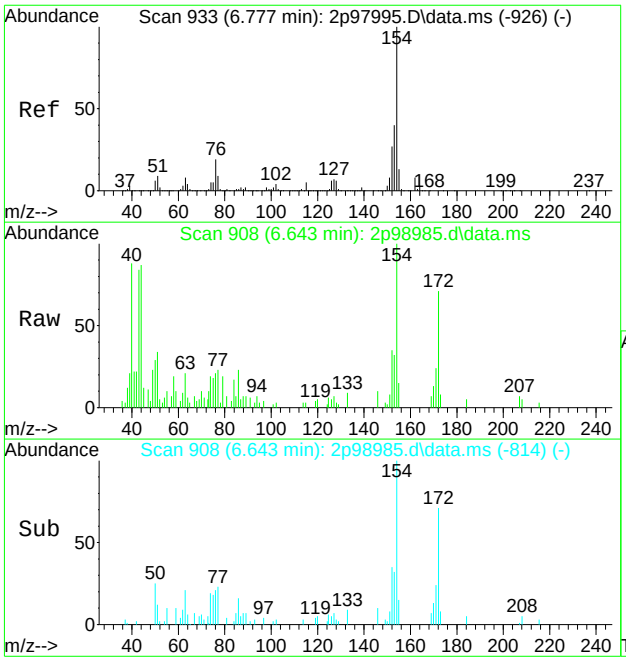
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98985.d
Acq On : 15 Jan 2021 2:46 pm
Operator : hennys
Sample : op31540-mb1 Inst : MS2P
Misc : op31540,e2p4412,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Results File: M2P4365.RES
Quant Time: Jan 18 03:21:22 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jan 18 03:08:11 2021
Response via : Initial Calibration

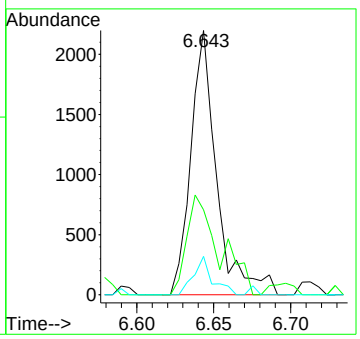


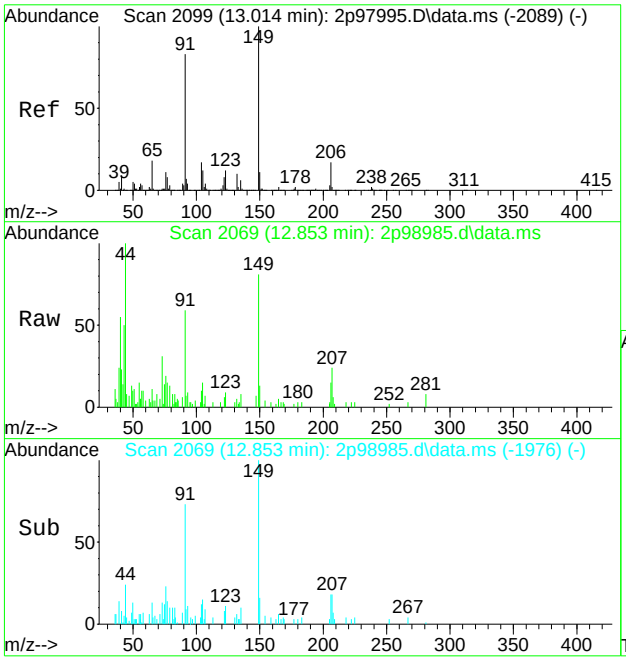


#53
Biphenyl
Concen: 0.08 ppm
RT: 6.643 min Scan# 908
Delta R.T. 0.005 min
Lab File: 2p98985.d
Acq: 15 Jan 2021 2:46 pm

Tgt Ion:154 Resp: 2570

Ion	Ratio	Lower	Upper
154	100		
153	29.9	11.2	71.2
155	14.5	0.0	42.9

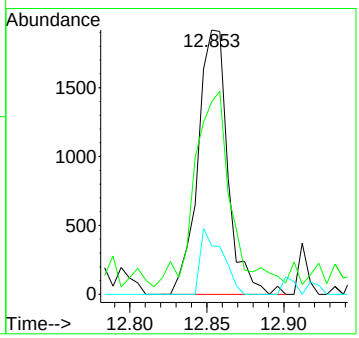


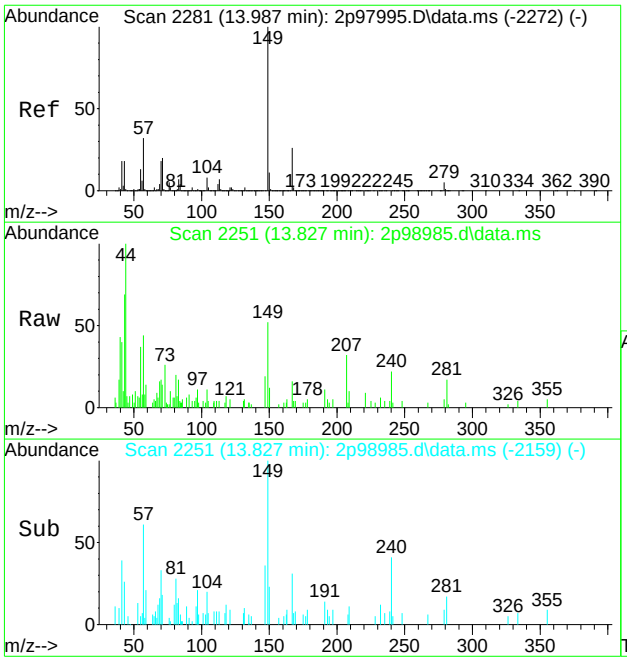


#86
Butylbenzylphthalate
Concen: 0.11 ppm
RT: 12.853 min Scan# 2069
Delta R.T. 0.000 min
Lab File: 2p98985.d
Acq: 15 Jan 2021 2:46 pm

Tgt Ion:149 Resp: 2601

Ion	Ratio	Lower	Upper
149	100		
91	67.5	62.4	122.4
206	15.0	0.0	46.8

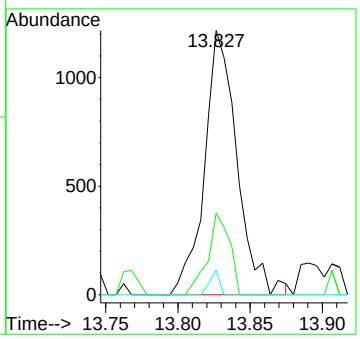




#90
bis(2-Ethylhexyl)phthalate
Concen: 0.06 ppm
RT: 13.827 min Scan# 2251
Delta R.T. -0.005 min
Lab File: 2p98985.d
Acq: 15 Jan 2021 2:46 pm

Tgt Ion:149 Resp: 1902

Ion	Ratio	Lower	Upper
149	100		
167	31.5	0.0	56.5
279	9.5	0.0	35.6



7.2.1

7

LSC Area Percent Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98985.d
Acq On : 15 Jan 2021 2:46 pm
Operator : hennys
Sample : op31540-mb1
Misc : op31540,e2p4412,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Title : Semi Volatile Extractables by GC/MS

Signal : TIC: 2p98985.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.899	16	21	34	rVB	937405	941889	18.13%	1.829%
2	2.161	68	70	76	rVB2	76497	65404	1.26%	0.127%
3	2.525	136	138	154	rVB3	50182	93878	1.81%	0.182%
4	2.824	191	194	203	rVB3	91127	118217	2.28%	0.230%
5	2.931	211	214	217	rVV2	39536	40267	0.78%	0.078%
6	2.969	217	221	226	rVB2	55157	68211	1.31%	0.132%
7	3.033	227	233	237	rVB2	95644	94219	1.81%	0.183%
8	3.081	239	242	244	rBV4	17219	14978	0.29%	0.029%
9	3.103	244	246	248	rVB	32891	23710	0.46%	0.046%
10	3.151	249	255	260	rVB	218777	242542	4.67%	0.471%
11	3.210	261	266	282	rVB	535019	591211	11.38%	1.148%
12	3.333	284	289	298	rVB2	90989	115193	2.22%	0.224%
13	3.391	298	300	309	rVB6	12915	28029	0.54%	0.054%
14	3.509	318	322	362	rVB	3134099	2872932	55.31%	5.580%
15	3.835	380	383	387	rVB4	12726	12178	0.23%	0.024%
16	3.899	392	395	403	rVV7	11272	18506	0.36%	0.036%
17	3.953	403	405	413	rVB7	9257	14545	0.28%	0.028%
18	4.033	413	420	429	rBV5	10172	36533	0.70%	0.071%
19	4.108	433	434	438	rVB4	5776	4398	0.08%	0.009%
20	4.220	447	455	486	rBV	3126932	2858798	55.04%	5.553%
21	4.429	490	494	507	rBV	5581909	3741950	72.04%	7.268%
22	4.579	518	522	526	rVB5	5735	8795	0.17%	0.017%
23	4.750	549	554	557	rVB6	5618	8315	0.16%	0.016%
24	4.841	564	571	589	rBV	3545449	2847782	54.83%	5.531%
25	5.023	602	605	610	rVB	32698	29081	0.56%	0.056%
26	5.146	625	628	638	rVB10	6638	14877	0.29%	0.029%
27	5.237	638	645	650	rBV	46585	46561	0.90%	0.090%
28	5.418	669	679	708	rBV	5145735	4498110	86.60%	8.737%
29	5.718	733	735	741	rVB7	4213	5106	0.10%	0.010%
30	5.980	778	784	790	rBV2	17063	21581	0.42%	0.042%
31	6.130	808	812	815	rBV5	3124	4914	0.09%	0.010%
32	6.526	870	886	900	rBV	4931479	4264833	82.11%	8.284%
33	6.638	905	907	912	rVB6	7687	10515	0.20%	0.020%
34	6.750	923	928	932	rVB8	3004	4444	0.09%	0.009%
35	7.044	978	983	985	rBV6	2907	4548	0.09%	0.009%
36	7.082	985	990	996	rVV5	7491	11369	0.22%	0.022%
37	7.146	997	1002	1007	rVB8	3725	6299	0.12%	0.012%
38	7.344	1033	1039	1049	rBV2	4582612	4580766	88.19%	8.897%
39	7.414	1049	1052	1057	rVV5	20648	29870	0.58%	0.058%
40	7.446	1057	1058	1065	rVB7	5436	5120	0.10%	0.010%

LSC Area Percent Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98985.d
Acq On : 15 Jan 2021 2:46 pm
Operator : hennys
Sample : op31540-mb1
Misc : op31540,e2p4412,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Title : Semi Volatile Extractables by GC/MS

41	8.061	1166	1173	1180	rBV4	21306	26951	0.52%	0.052%
42	8.120	1180	1184	1189	rVB8	3536	5805	0.11%	0.011%
43	8.227	1199	1204	1211	rVB9	4661	8066	0.16%	0.016%
44	8.376	1224	1232	1233	rBV7	4255	5595	0.11%	0.011%
45	8.446	1238	1245	1264	rBV	1888113	2305151	44.38%	4.477%
46	8.670	1281	1287	1291	rVB9	3866	7408	0.14%	0.014%
47	8.767	1301	1305	1315	rBV4	13284	23111	0.44%	0.045%
48	8.917	1330	1333	1339	rVB8	4636	5362	0.10%	0.010%
49	9.056	1355	1359	1366	rVB9	3339	5794	0.11%	0.011%
50	9.200	1383	1386	1393	rVB9	3600	6794	0.13%	0.013%
51	9.280	1395	1401	1410	rBV4	14586	26860	0.52%	0.052%
52	9.414	1422	1426	1428	rBV4	4095	5162	0.10%	0.010%
53	9.462	1428	1435	1447	rVV2	4372294	4815948	92.72%	9.354%
54	9.548	1447	1451	1460	rVB6	13231	33688	0.65%	0.065%
55	9.885	1508	1514	1521	rVB6	3140	6072	0.12%	0.012%
56	9.943	1521	1525	1530	rVB7	4213	6412	0.12%	0.012%
57	10.002	1533	1536	1539	rBV5	3782	5689	0.11%	0.011%
58	10.500	1620	1629	1630	rBV7	3393	4994	0.10%	0.010%
59	10.516	1630	1632	1641	rVB10	4229	9223	0.18%	0.018%
60	10.778	1675	1681	1685	rBV9	3765	5086	0.10%	0.010%
61	11.174	1749	1755	1758	rBV8	3238	5990	0.12%	0.012%
62	11.270	1767	1773	1778	rVB9	2949	6657	0.13%	0.013%
63	11.323	1778	1783	1787	rBV5	8447	12941	0.25%	0.025%
64	11.361	1787	1790	1794	rVB5	3122	4689	0.09%	0.009%
65	11.441	1801	1805	1812	rVB9	2468	4839	0.09%	0.009%
66	11.607	1831	1836	1839	rBV6	3574	6195	0.12%	0.012%
67	11.687	1845	1851	1859	rVB6	4335	8954	0.17%	0.017%
68	12.013	1903	1912	1928	rBV	4343579	5085653	97.92%	9.878%
69	12.120	1930	1932	1939	rVB8	3484	5074	0.10%	0.010%
70	12.564	2011	2015	2022	rBV10	3866	7146	0.14%	0.014%
71	12.853	2061	2069	2076	rBV9	9356	15991	0.31%	0.031%
72	13.040	2098	2104	2107	rBV8	3608	5051	0.10%	0.010%
73	13.121	2117	2119	2125	rVB7	4011	5405	0.10%	0.010%
74	13.276	2146	2148	2155	rVB8	4029	5532	0.11%	0.011%
75	13.468	2181	2184	2192	rVB10	2544	5066	0.10%	0.010%
76	13.618	2202	2212	2227	rBV	3918984	5193908	100.00%	10.088%
77	13.821	2247	2250	2256	rVB7	5574	8739	0.17%	0.017%
78	13.891	2261	2263	2270	rVB8	5126	5512	0.11%	0.011%
79	14.105	2300	2303	2310	rVV9	2760	6303	0.12%	0.012%
80	14.164	2310	2314	2318	rVB7	8723	13024	0.25%	0.025%
81	14.495	2369	2376	2379	rBV9	3272	5966	0.11%	0.012%
82	14.661	2403	2407	2415	rBV9	7499	15926	0.31%	0.031%
83	14.741	2415	2422	2423	rBV6	7237	10831	0.21%	0.021%
84	14.880	2441	2448	2456	rBV5	27538	42924	0.83%	0.083%
85	14.993	2463	2469	2470	rBV5	4537	7384	0.14%	0.014%

LSC Area Percent Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98985.d
Acq On : 15 Jan 2021 2:46 pm
Operator : hennys
Sample : op31540-mb1
Misc : op31540,e2p4412,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Title : Semi Volatile Extractables by GC/MS

86	15.062	2478	2482	2487	rVB7	6169	8854	0.17%	0.017%
87	15.142	2488	2497	2504	rVV7	6927	15598	0.30%	0.030%
88	15.217	2506	2511	2514	rVV7	3516	5094	0.10%	0.010%
89	15.362	2527	2538	2539	rBV10	8655	20574	0.40%	0.040%
90	15.549	2569	2573	2575	rBV5	3755	4485	0.09%	0.009%
91	15.597	2580	2582	2587	rVV6	4875	6799	0.13%	0.013%
92	15.656	2588	2593	2596	rVB7	6774	9041	0.17%	0.018%
93	15.736	2597	2608	2623	rBV	3665301	5008231	96.43%	9.727%
94	15.891	2634	2637	2639	rBV4	6966	7392	0.14%	0.014%
95	15.934	2641	2645	2653	rVB10	12983	20440	0.39%	0.040%
96	16.207	2694	2696	2701	rVB6	5210	7312	0.14%	0.014%
97	16.362	2720	2725	2729	rBV8	35677	51982	1.00%	0.101%
98	16.453	2736	2742	2755	rVV8	37216	87646	1.69%	0.170%
99	16.972	2836	2839	2843	rVB6	9268	9110	0.18%	0.018%
100	19.058	3226	3229	3230	rBV3	9473	7430	0.14%	0.014%

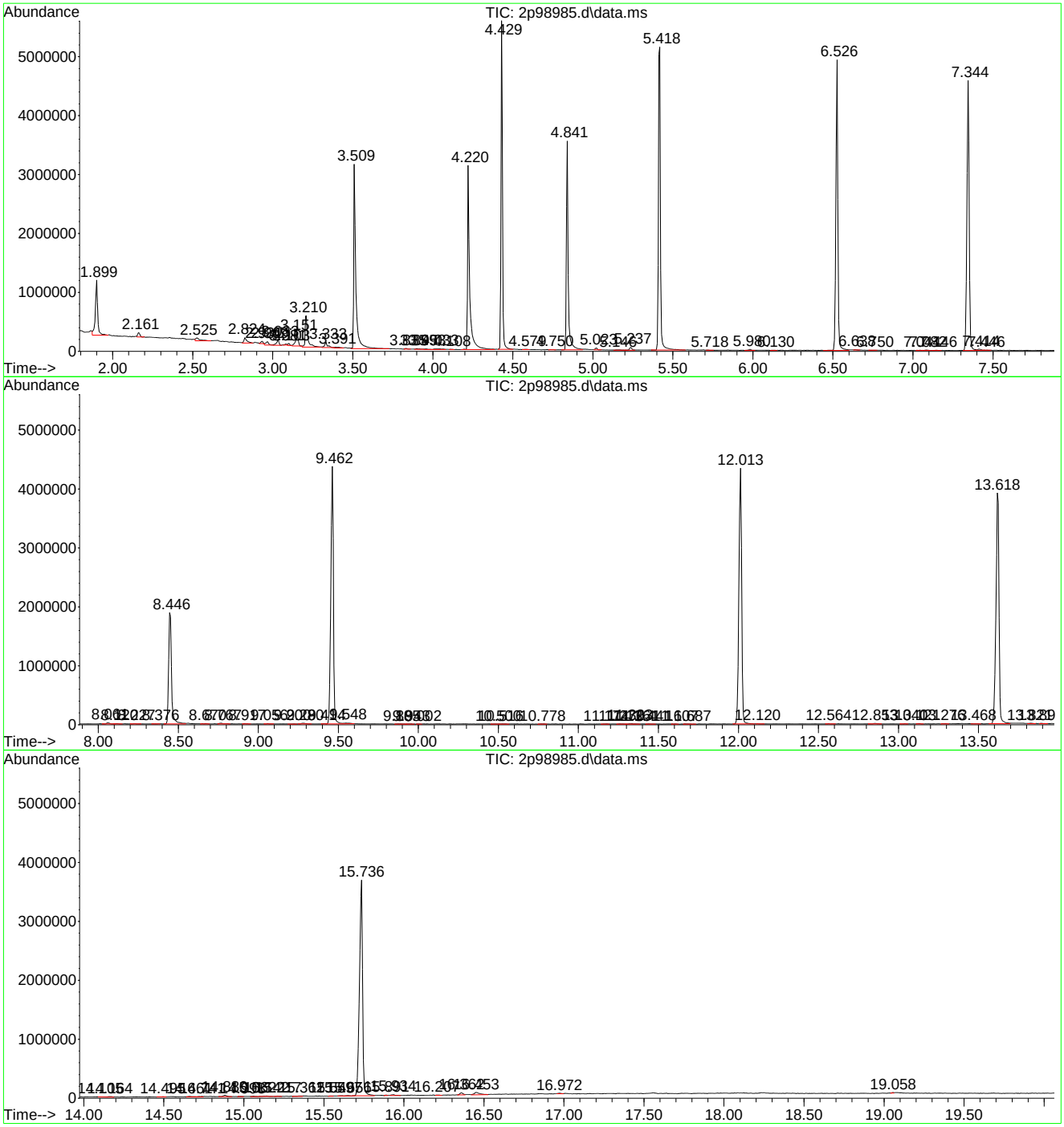
Sum of corrected areas: 51485333

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98985.d
Acq On : 15 Jan 2021 2:46 pm
Operator : hennys
Sample : op31540-mb1
Misc : op31540,e2p4412,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98985.d
Acq On : 15 Jan 2021 2:46 pm
Operator : hennys
Sample : op31540-mb1
Misc : op31540,e2p4412,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

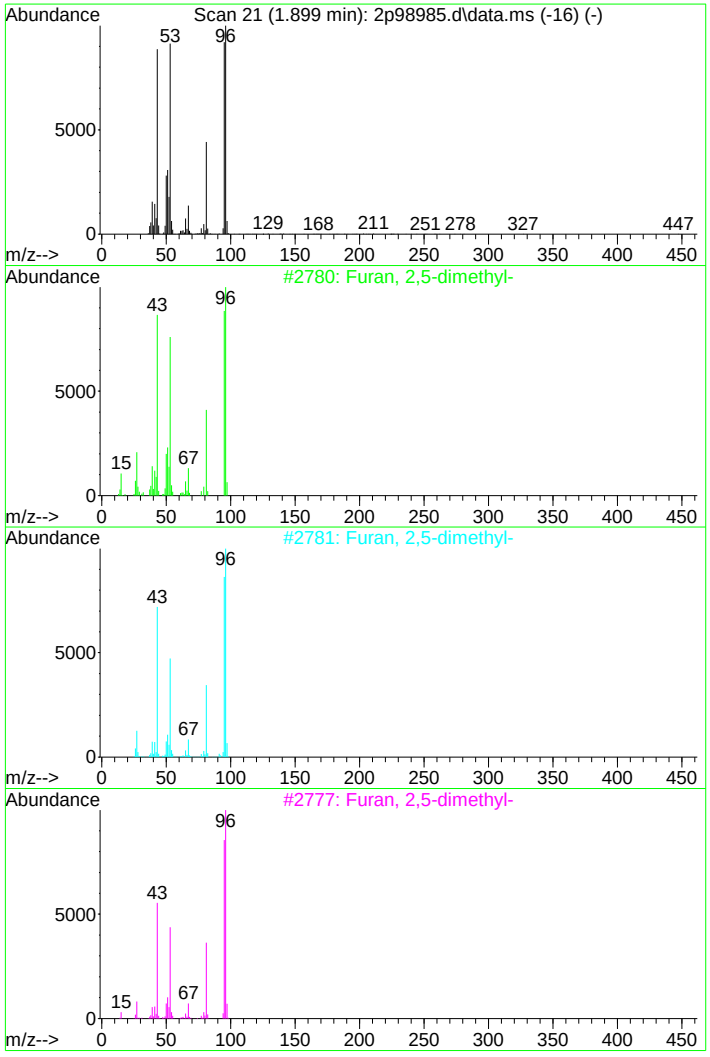
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

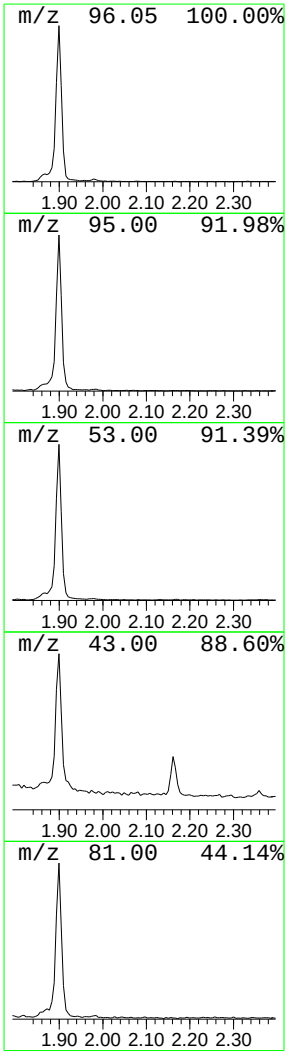
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Peak Number 1 System artifact Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.899	10.07 ppm	941889	1,4-Dichlorobenzene-d4a	4.429

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Furan, 2,5-dimethyl-	96	C6H8O	000625-86-5	96
2	Furan, 2,5-dimethyl-	96	C6H8O	000625-86-5	91
3	Furan, 2,5-dimethyl-	96	C6H8O	000625-86-5	91
4	Furan, 2,5-dimethyl-	96	C6H8O	000625-86-5	86
5	Furan, 2,4-dimethyl-	96	C6H8O	003710-43-8	78





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98985.d
Acq On : 15 Jan 2021 2:46 pm
Operator : hennys
Sample : op31540-mb1
Misc : op31540,e2p4412,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

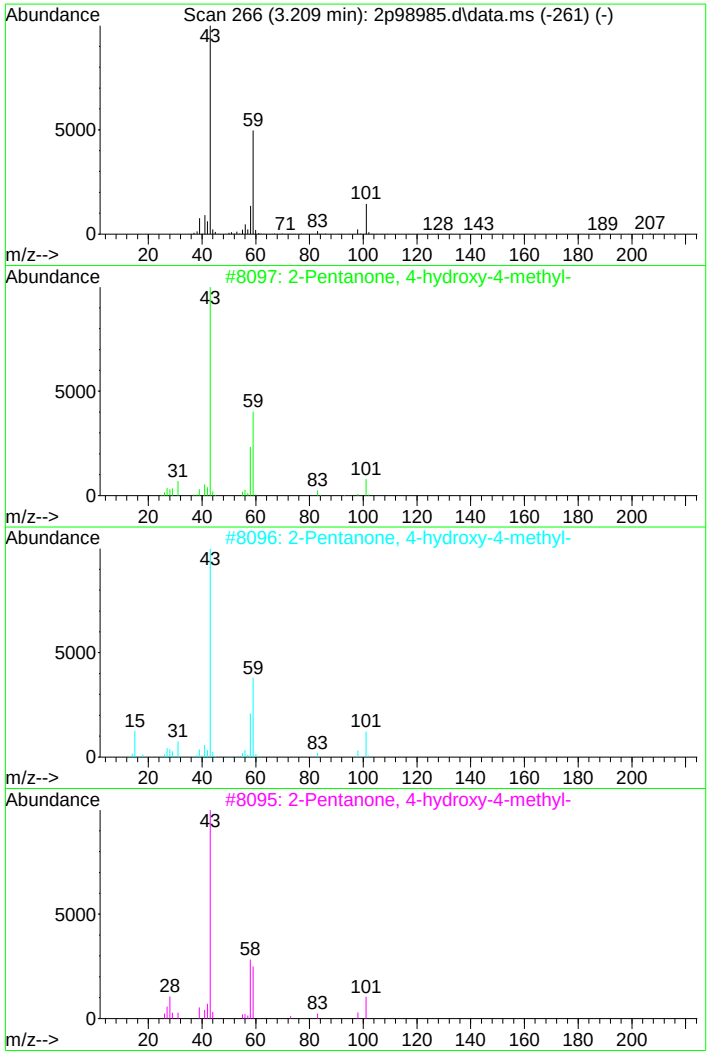
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

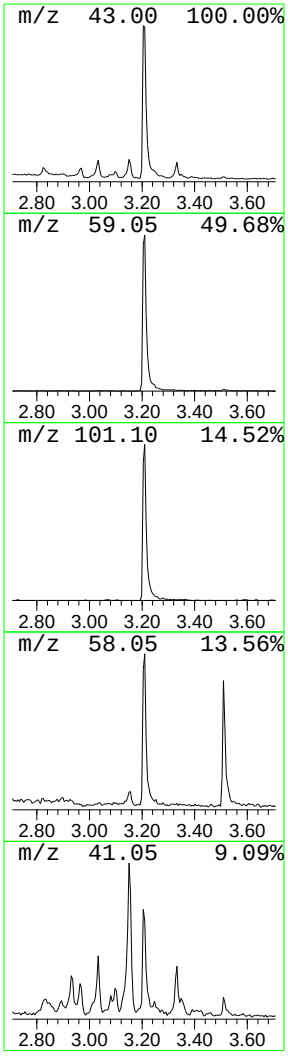
****

Peak Number 2 System artifact/aldol-conde... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.209	6.32 ppm	591211	1,4-Dichlorobenzene-d4a	4.429

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	39
3	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	28
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16
5	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98985.d
Acq On : 15 Jan 2021 2:46 pm
Operator : hennys
Sample : op31540-mb1
Misc : op31540,e2p4412,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
System artifact	1.899	10.1	ppm	941889	2	4.429	3741950	40.0
System artifact...	3.209	6.3	ppm	591211	2	4.429	3741950	40.0

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary

Percent Solids Raw Data Summary

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample: JD18939-1 **Analyzed:** 13-JAN-21 by BG **Method:** SM2540 G 18TH ED MOD
ClientID: S-10R

Wet Weight (Total)	31.5	g
Tare Weight	24.39	g
Dry Weight (Total)	30.6	g
Solids, Percent	87.3	%

Sample: JD18939-2 **Analyzed:** 13-JAN-21 by BG **Method:** SM2540 G 18TH ED MOD
ClientID: S-15R

Wet Weight (Total)	33.79	g
Tare Weight	26.58	g
Dry Weight (Total)	32.26	g
Solids, Percent	78.8	%

Sample: JD18939-3 **Analyzed:** 13-JAN-21 by BG **Method:** SM2540 G 18TH ED MOD
ClientID: S-18R

Wet Weight (Total)	31.73	g
Tare Weight	24.6	g
Dry Weight (Total)	29.65	g
Solids, Percent	70.8	%

Table 2a
Ridgewood Water
Bergen County, New Jersey
Semi-Volatile Organic Compound (SVOC) Concentrations in Soil
Water Main Break Spoils Pile - January 12, 2021

Compound	NJDEP Residential Direct Contact Soil Remediation Standard (RDCSRS) [mg/kg]	NJDEP Non-Residential Direct Contact Soil Remediation Standard (NRDCSRS) [mg/kg]	NJDEP Default Impact to Groundwater Soil Screening Level (IGWSSL) [mg/kg]	S-10 R (mg/kg)	S-15 R (mg/kg)	S-18 R (mg/kg)
2-Chlorophenol	*310*	*2,200*	*N/A*	ND	ND	ND
4-Chloro-3-methyl phenol	*N/A*	*N/A*	*N/A*	ND	ND	ND
2,4-Dichlorophenol	*180*	*2,100*	*0.2*	ND	ND	ND
2,4-Dimethylphenol	*1,200*	*14,000*	*1*	ND	ND	ND
2,4-Dinitrophenol	*120*	*1,400*	*0.3*	ND	ND	ND
4,6-Dinitro-o-cresol	*6*	*68*	*0.3*	ND	ND	ND
2-Methylphenol	*310*	*3,400*	*N/A*	ND	ND	ND
3&4-Methylphenol	*31*	*340*	*N/A*	ND	ND	ND
2-Nitrophenol	*N/A*	*N/A*	*N/A*	ND	ND	ND
4-Nitrophenol	*N/A*	*N/A*	*N/A*	ND	ND	ND
Pentachlorophenol	*0.9*	*3*	*0.3*	ND	ND	ND
Phenol	*18,000*	*210,000*	*8*	ND	ND	ND
2,3,4,6-Tetrachlorophenol	*N/A*	*N/A*	*N/A*	ND	ND	ND
2,4,5-Trichlorophenol	*6,100*	*68,000*	*68*	ND	ND	ND
2,4,6-Trichlorophenol	*19*	*74*	*0.2*	ND	ND	ND
Acenaphthene	*3,400*	*37,000*	*74*	ND	0.102	0.0188 J
Acenaphthylene	*N/A*	*300,000*	*N/A*	0.0465	0.0626	0.0657
Acetophenone	*2*	*5*	*3*	ND	ND	ND
Anthracene	*17,000*	*30,000*	*1,500*	0.0456	0.278	0.187
Atrazine	*210*	*2,400*	*0.2*	ND	ND	ND
Benzo(a)anthracene	*5*	*17*	*0.5*	0.218	0.750	0.873
Benzo(a)pyrene	*0.5*	*2*	*0.2*	0.213	0.744*	0.852*
Benzo(b)fluoranthene	*5*	*17*	*2*	0.260	0.986	1.040
Benzo(g,h,i)perylene	*380,000*	*30,000*	*N/A*	0.131	0.511	0.598
Benzo(k)fluoranthene	*45*	*170*	*16*	0.0921	0.302	0.307
4-Bromophenyl phenyl ether	*N/A*	*N/A*	*N/A*	ND	ND	ND
Butyl benzyl phthalate	*1,200*	*14,000*	*230*	ND	ND	ND
1,1'-Biphenyl	*61*	*240*	*140*	ND	0.0112 J	ND
Benzaldehyde	*6,100*	*68,000*	*N/A*	ND	ND	ND
2-Chloronaphthalene	*N/A*	*N/A*	*N/A*	ND	ND	ND
4-Chloroaniline	*N/A*	*N/A*	*N/A*	ND	ND	ND
Carbazole	*24*	*96*	*N/A*	0.0105 J	0.105	0.0542 J
Caprolactam	*31,000*	*340,000*	*12*	ND	ND	ND
Chrysene	*450*	*1,700*	*52*	0.224	0.853	0.852
bis(2-Chloroethoxy)methane	*N/A*	*N/A*	*N/A*	ND	ND	ND
bis(2-Chloroethyl)ether	*0.4*	*2*	*0.2*	ND	ND	ND
2,2'-Oxybis(1-chloropropane)	*23*	*67*	*5*	ND	ND	ND
4-Chlorophenyl phenyl ether	*N/A*	*N/A*	*N/A*	ND	ND	ND
2,4-Dinitrotoluene	*0.7*	*3*	*N/A*	ND	ND	ND
2,6-Dinitrotoluene	*0.7*	*3*	*N/A*	ND	ND	ND
3,3'-Dichlorobenzidine	*1*	*4*	*0.2*	ND	ND	ND
1,4-Dioxane	*N/A*	*N/A*	*N/A*	ND	ND	ND
Dibenzo(a,h)anthracene	*0.5*	*2*	*0.5*	0.0352 J	0.132	0.155
Dibenzofuran	*N/A*	*N/A*	*N/A*	ND	0.0585 J	ND
Di-n-butyl phthalate	*6,100*	*68,000*	*760*	ND	ND	ND
Di-n-octyl phthalate	*2,400*	*27,000*	*N/A*	ND	ND	ND
Diethyl phthalate	*49,000*	*550,000*	*88*	ND	ND	ND
Dimethyl phthalate	*N/A*	*N/A*	*N/A*	ND	ND	ND
bis(2-Ethylhexyl)phthalate	*35*	*140*	*1,200*	ND	0.0969	ND
Fluoranthene	*2,300*	*24,000*	*840*	0.333	1.62	1.58
Fluorene	*2,300*	*24,000*	*110*	ND	0.130	0.0260 J
Hexachlorobenzene	*0.3*	*1*	*0.2*	ND	ND	ND
Hexachlorobutadiene	*6*	*25*	*0.9*	ND	ND	ND
Hexachlorocyclopentadiene	*45*	*110*	*320*	ND	ND	ND
Hexachloroethane	*12*	*48*	*0.2*	ND	ND	ND
Indeno(1,2,3-cd)pyrene	*5*	*17*	*5*	0.135	0.523	0.597
Isophorone	*510*	*2,000*	*0.2*	ND	ND	ND
2-Methylnaphthalene	*230*	*2,400*	*8*	ND	0.0355 J	ND
2-Nitroaniline	*39*	*23,000*	*N/A*	ND	ND	ND
3-Nitroaniline	*N/A*	*N/A*	*N/A*	ND	ND	ND
4-Nitroaniline	*N/A*	*N/A*	*N/A*	ND	ND	ND
Naphthalene	*6*	*17*	*16*	0.0176 J	0.0268 J	ND
Nitrobenzene	*5*	*14*	*0.2*	ND	ND	ND
N-Nitroso-di-n-propylamine	*0.2*	*0.3*	*0.2*	ND	ND	ND
N-Nitrosodiphenylamine	*99*	*390*	*0.4*	ND	ND	ND
Phenanthrene	*N/A*	*300,000*	*N/A*	0.130	0.981	0.533
Pyrene	*1,700*	*18,000*	*550*	0.381	1.48	1.57
1,2,4,5-Tetrachlorobenzene	*N/A*	*N/A*	*N/A*	ND	ND	ND
Total TICs, Semi-Volatile	*N/A*	*N/A*	*N/A*	0.16 J	47.56 J	5.03 J

Notes: *mg/kg - milligrams per kilogram*
ND - not detected
J - indicates an estimated concentration
N/A - standard not available

Indicates soil concentration exceeds RDCSRS
(indicates concentration also exceeds IGWSSL)*

Indicates soil concentration exceeds IGWSSL